GSTIN No. : 09AAACH1118B1ZA CIN No. - L23201MH1952GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)

Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)

Control Room Ph. : 7084155561, 7084155609

Chief Conservator of Forests (Western Zone),
Ministry of Environment and Forests,
Regional Office,
E-5, Arera Colony, Link Road No. 3,
Bhopal – 462016.

MOEF (2022-23)/RKPL
Date: 04.07.2023

Sub: Environment Clearance from Ministry of Environment & Forests for Laying of Petroleum Product Pipeline with Associated Facilities from Rewari, Haryana to Kanpur, U.P. by MIs. Hindustan Petroleum Corporation Ltd.

Ref: EC Letter received vide Letter F. No. J-11 0111239/201 O-IA II (I) dated 19.03.2013 & dated 19.08.15 respectively.

Dear Sir,

Reference is made to letter no. J-11011/239/2010-IA II (I) dated 19.03.2013 & dated 19.08.15 respectively from Ministry of Environment & Forests according environment clearance to our subject project. As per clause VI of General conditions, we are submitting the following documents:

1. Status of Point wise compliance of the stipulated environmental conditions as of 31.03.2023.
2. Environment monitoring data conducted at project sites for October'22 to March'23.

Since, above documents are to be submitted on half yearly basis, in line with your letter IV/ENV/UP/PL-7/374/2013/1063 dated 12.09.13, the next report will be submitted by us in October'23.

Thanking you,

Very truly yours,

Rajesh Damodar Waghmare
DGM RKPL-Kanpur

Encl. as above

GSTIN No. : 09AAACH1118B1ZA CIN No. - L23201MH1952GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

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कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)
Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)
Control Room Ph. : 7084155561, 7084155609

Director(s)
Ministry of Environment and Forests,
2Northern Regional Office,
Bays No. 24-25, Sector-31-A
Dakshin Marg,
Chandigarh – 160 030.

MOEF (2022-23)/RKPL
Date: 04.07.2023

Sub: Environment Clearance from Ministry of Environment & Forests for Laying of Petroleum Product Pipeline with Associated Facilities from Rewari, Haryana to Kanpur, U.P. by Mls. Hindustan Petroleum Corporation Ltd.

Ref: EC Letter received vide Letter F. No. J-11 0111239/201 O-IA II (I) dated 19.03.2013 & dated 19.08.15 respectively.

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(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)

Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)

Control Room Ph. : 7084155561, 7084155609

Jt. Director (s),
Ministry of Environment and Forests,
Regional Office (Central),
Kendriya Bhawan, 5th Floor, Sector- H,
Aliganj, Lucknow-226024.

MOEF (2022-23)/RKPL
Date: 04.07.2023

Sub: Environment Clearance from Ministry of Environment & Forests for Laying of Petroleum Product Pipeline with Associated Facilities from Rewari, Haryana to Kanpur, U.P. by MIs. Hindustan Petroleum Corporation Ltd.

Ref: EC Letter received vide Letter F. No. J-11 0111239/201 O-IA II (I) dated 19.03.2013 & dated 19.08.15 respectively.

Dear Sir,

Reference is made to letter no. J-11011/239/2010-IA II (I) dated 19.03.2013 & dated 19.08.15 respectively from Ministry of Environment & forests according environment clearance to our subject project. As per clause VI of General conditions, we are submitting the following documents:

1. Status of Point wise compliance of the stipulated environmental Conditions as of 31.03.2023.
2. Environment monitoring data conducted at project sites for October'22 to March'23.

Since, above documents are to be submitted on half yearly basis, in line with your letter IV/ENV/UP/PL-7/374/2013/1063 dated 12.09.13, the next report will be submitted by us in October'23.

Thanking you,

Encl. as above

Very truly yours,

Rajesh Damodar Waghmare
DGM RKPL-Kanpur

Name of the Project: Rewari Kanpur Pipeline Project		
Clearance Letter No.: F No. J-11011/239/2010-IA II (I) dated 19.03.2013 & 19.08.2015		
Period of Compliance Report: October'22 to March'23		
A. Specific Conditions:		
Sl No.	Condition	Compliance Status
I.	Comments/recommendations shall be obtained from the State Forest Department regarding the impact of the proposed laying of pipeline on the surrounding reserve forests.	We confirm that we have already obtained comments from the State Forest Department in this regard vide their letters 2290/14-1 Firozabad dtd 21.02.14, 3669/14-1 Mathura dtd 25.02.14, 2626/14-1 Mati dtd 28.02.14, 3546/14-1 Hathras dtd 26.03.14 & 386/14-10-1 Etawah dtd.13.08.14.
ii.	All the conditions stipulated in the forest clearance shall be implemented.	We confirm that all the conditions in the forest clearance, viz, Restoration of excavated portion to fully compact one, not to excavate soil/sand from forest for un authorized purpose & not to use forest land for other purposes etc has been complied with.
iii.	The project authority i.e., M/s HPCL shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.	We confirm that we have ensured restoration of the Right of the Use (ROU) to preconstruction level. Further compaction of backfilled area has also been ensured.
iv.	Adequate buffer zone around the oil tankage shall be maintained, as may be required as per OISD or other statutory requirements.	We confirm that same has been complied with during design & construction.
v.	The company shall monitor PM10, SO2, Nox & HC and displayed periodically on the company's web site.	M/s Hubert Enviro Care Systems (P) Ltd, and M/s Nitya Laboratories being reputed MoEF approved Agency has carried out environment monitoring for the Project during 3rd and 4th quarter of 2022-2023 and the test results have been provided on our website.
vi.	Regularly monitoring of VOC and HC in the work zone area in the tankage premises shall be carried and data be submitted to Ministry's Regional Office at Lucknow and Kanpur.	We confirm that same has been complied.
vii.	The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas should be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.	We confirm that same has been complied with during design & is being complied with during operation.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

viii.	Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.	We confirm that the External Safety Audit (OISD) of RKPL is completed in 5th – 9nd Dec'22 for the year 2021-2022 and final report is being enclosed herewith for your perusal for the year 22-23
ix.	The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and dykes shall be restored adequately after installation of crossings.	We confirm that we have complied with the same during construction of crossings across river and streams.
x.	Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.	We confirm that we have complied with ANSI/ASME during design as well as during construction at river/rail/major road crossings.
xi.	The company should follow horizontal drilling technique for laying of pipeline while passing through major rivers.	We confirm that we have followed the same during laying of pipeline while passing through major rivers.
xii.	The project authorities shall install SCADA system with dedicated optical fiber-based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive locations shall be provided to prevent the leaking of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.	We confirm that we have complied with the same during design and construction of the pipeline.
xiii.	The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.	We confirm that it is being complied with by us during the pipeline operation. All surveys being carried out at the regular interval as per standards.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

xiv.	The fire water facilities at the terminal must be designed as per OISD-117 guidelines. However, for fighting prolonged fires, the company shall firm up a plan for assured water supply from nearby ground water source/ surface water source. This must be compiled before commissioning the project.	We confirm that we have complied with the same during design. Further, we have firmed up plan for assured water supply under mutual aid from IOC/BPC at Rewari, Bharatpur, Mathura. At Kanpur, there is sufficient ground water source.
xv.	All the recommendations mentioned in the Risk Assessment report shall be implemented.	We confirm that we have complied with the same during design as well as during construction at Rewari, Mathura, Bharatpur & Kanpur Terminal. We had completed HAZOP & QRA in Oct'20 and all the audit points have also been complied.
xvi.	All the issues raised during the public hearing/consultation meetings held on 10th April, 2012 for Bharatpur terminal, 14th May, 2012 for Mathura Terminal, 4th May, 2012 for Kanpur Terminal and 3rd April, 2012 for Palanpur Terminal shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Lucknow and Bhopal.	CSR activities of Rs. 58.56 Lacs at Rewari, Bharatpur, Mathura and Kanpur locations is completed in year 2022-23.
xvii.	Prior permission shall be obtained from CGWA/SGWA to meet water requirement from ground water source.	We confirm that we have complied with the same.
xviii.	The company shall construct the garland drain all around the project site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated streams. During rainy seasons, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted.	We confirm that we have complied with the same during design & construction.
xix.	Effluent from washing of storage tanks shall be properly treated in ETP and treated wastewater shall conform to CPCB standards. As proposed separate treatment system shall be provided for white oil and black oil effluent streams. No effluent shall be discharged outside the premises.	We confirm that construction of ETP has been completed at Rewari, Bharatpur, Mathura and Kanpur Terminal and the same are under operation.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

xx.	Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. shall be followed. Company shall ensure no oil spillage occur during loading / unloading of petroleum products.	We confirm that all Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. it is being complied.
xxi.	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. All the hazardous waste shall be properly treated and disposed of in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008.	We confirm that it is being complied.
xxii.	Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.	We have obtained Location wise Construction approvals for the project vide CCOE letters P/HQ/HN/15/409 (P 2966) dtd 21.12.12, P/HQ/GJ/15/4861 (P 52221) dtd 21.12.12, P/HQ/RJ/15/568 (P5322) dtd 24.12.12, P/HQ/UP/15/818 (P8216) dtd 02.02.13, A/P/HQ/UP/15/5305 (P 329794) dtd 24.01.14 & P-2 (4) 869 dtd 16.07.13 for pipeline respectively. We have already obtained necessary Commissioning approval for locations vide CCOE letters P/HQ/RJ/15/568 (P5322) dtd 19.03.15, P/HQ/GJ/15/4861(P 152221) dtd 04.06.15, P/HQ/HN/15/409 (P 2966) dtd 18.06.15, P/HQ/UP/15/818 (P 8216) dtd 30.07.15, P/HQ/UP/15/5005 (P 329794) dtd 13.08.15 & P-2(4) 869 dtd 11.09.15 for pipeline respectively. On-site and Off-site DMP has been prepared and submitted to respective Authorities.
xxiii.	The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.	We confirm that we have obtained all requisite clearances for fire safety and explosives vide letters FSR-579 dtd 12.12.12, CFO/FS/Mathura/2013 dtd 29.07.13 & F No. VIII-11011/10/2013 dtd 29.07.13 and the stipulations made by the respective authorities viz, provision of fire-fighting equipment's, training of workers on fire safety & conducting Mock drills has been complied with.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

xxiv.	All storage tanks shall be provided with design features base on applicable OISD standards.	We confirm that we have complied with the same during design stage.
xxv.	No change in the storage capacity and other facilities shall be made without getting proper approval form the Ministry.	We confirm to strictly comply with the same.
xxvi.	Fully automated tank farm management system (TFMS), shall be provided for accounting of products & reconciliation.	We confirm that we have complied with the same during design & construction at Rewari, Mathura, Bharatpur, & Kanpur Terminal.
xxvii.	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt.of India. Mock drill shall be conducted once in a month.	We confirm that we have complied with the same during preparation of Emergency Management Plan for the project & Mock drills are being conducted on regular basis at Rewari, Mathura, Bharatpur and Kanpur
xxviii.	Bottom oil sludge shall be handled, stored and disposed as per CPCB/ MoEF guidelines. An action plan in this regard including bioremediation shall be submitted to the Ministry and its Regional Office at Lucknow and Bhopal within 3 months of issue of the letter.	We have already submitted Action plan to MoEF Regional office at Lucknow and Bhopal vide our letter HPCL/RKPL/EC/MoEF/2013 dated 17.06.13.
xxix.	Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.	We confirm that it is being done for available workers at our locations.
xxx.	Green belt shall be developed in 33% of the tankage site area to mitigate the effect of fugitive emission all around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around POL depot shall be ensured.	We confirm that we have complied with it during design & construction.
xxxi.	The Company should harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	We confirm that rainwater harvesting has been provisioned for all proposed buildings of the project.
xxxii.	Company should adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26th April, 2011 and implemented.	We confirm that HPCL has already adopted Corporate Environment policy in line with the Ministry guidelines.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

xxxiii.	Under Corporate Social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.	We have planned for sufficient budgetary provision for health improvement, education, water and electricity etc under CSR during the year & same is being implemented.

B. General Conditions:

Sl No.	Condition	Compliance Status
I.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Governments and any other statutory authority.	We confirm that we have complied to the stipulations, viz, prior approval for additions/alterations, adequate fire-fighting equipment's, restoration of excavated portion, Mock drills etc. made by the State Pollution Control Board (SPCB), State Governments and any other statutory authority.
ii.	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests in case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required. if any.	We confirm that we have strictly complied with the same.
iii.	The project authorities must strictly comply with the rules and regulations under Manufacture. Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently Prior approvals from Chief Inspectorate of Factories. Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	We confirm that prior Construction approvals from applicable Statutory Authorities have already been obtained for the project as indicated in point xxii & xxiii of Specific conditions. Further, we have also obtained approvals from Ch. Inspectorate of factories for our locations vide their letter 117 F/RK dtd 21.02.13, 11369/M/Plan/718 dtd 02.04.13, 618 dtd 17.05.13, DISH/F-Plan/2013/1291 dtd 19.08.13 & 555 DDF/Rekhank dtd 21.07.14. We have also obtained Commissioning approvals from Ch. Inspectorate of factories for our locations vide their letter 45975 dtd 23.01.15, 223/DDF/Rekhank dtd 28.02.15 & 1398 dtd 01.10.15 and Form no. 021703/ Licence no. KDH-50 respectively.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

iv.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules. 1989 viz 75 dBA (daytime) and 70 dBA (nighttime).	We confirm that ambient noise levels confirm to the standards prescribed under EPA Rules 1989 as per the data monitored during the last 2 quarters of the year.
v.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation. Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	We have already complied with the same.
vi.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.	We have already complied with it. As part of the same, this compliance report is being sent to the respective Authorities.
vii.	The environmental statement for each financial year ending 31th March in Form-V as in mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MoEF by e-mail.	We confirm that the Environment statement for the half year till 31.03.2022 is submitted to the concerned State Pollution Control Board.
viii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of	We have already complied with the same.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

	Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.	
ix.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	We have already complied with the same.

Rajesh Damodar Waghmare
DGM-RKPL, Kanpur

HPCL/CMD/GOVT/2022/1169_1

CMD
|
Adv to:D-M/ED(I/C)LPG Addl Charge P&P
cc:ED-HSE(Corp)

भारत सरकार, पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय
8वां तल, टॉवर–ए, ओ.आई.डी.बी. भवन,
प्लॉट नं. 2, सैक्टर–73, नोएडा–201301

Government of India, Ministry of Petroleum & Natural Gas
8th Floor, Tower-A, OIDB Bhawan
Plot No. 2, Sector-73, NOIDA - 201301
दूरभाष/Tel. : +91-120-2593800
वेबसाइट/Website : www.oisd.gov.in

ISO 9001:2015 certified

तेल उद्योग सुरक्षा निदेशालय
OIL INDUSTRY SAFETY DIRECTORATE

OISD/ENGG-PL/GEN/1 **19.01.2023**

Chairman & Managing Director,
Hindustan Petroleum Corporation Limited,
Petroleum House,
17-J, Tata Road, Church Gate,
Mumbai-400 020

Sub: Second External Safety Audit of Rewari-Kanpur Product Pipeline

Dear Sir,

The Second External Safety Audit of Rewari-Kanpur Product Pipeline of HPCL was carried out by a team constituted by OISD from 5th to 9th December, 2022. Copy of the ESA report is attached herewith.

We wish to draw your kind attention towards the major points of audit as follows:

1. Services of contractual personnel for O&M activities, security of Installation as well as line patrolling activities are taken. Few, training related documents are available. However, course contents and duration to be covered are not defined.

   In line with the requirements of OISD-STD-154, Training modules with duration and course contents to be defined and accordingly training to be imparted at regular intervals (Refer recommendation No.1).

2. Various gaps were observed in Work permit system (WPS) wrt requirements of OISD-STD-105.

   Approved procedures for WPS system (for online/ offline) including issuer, safety officer and receiver to be made for station works as well as mainline works. Site supervision by the WPS signatory to be ensured to meet requirements of OISD-STD-105 (Refer recommendation No.3).

3. For SCADA communication, OFC has been provided and lease line is also provided at intermittent stations as a backup communication (in case of OFC cut/failure). The reliability of backup communication was checked by de-linking the OFC at both the ends one by one. At most of the other places it was not working.

   The reasons for unavailability of SCADA through back-up communication to be found out and get corrected. The same may be incorporated in scheduled maintenance for reliable SCADA working (Refer recommendation No.5).

4. Interlock checking records at various stations were checked (including report in format: ISF/INT/13) and gaps were observed wrt requirements of 14.0 of OISD-STD-141 and 4.5.4 of OISD-STD-153.

   Interlock testing should also indicate details of each ESD, Equipment involved and their performance during checking including witnessing by operations person (Refer recommendation No.6).

5. CPTRU details are coming in SCADA but were found fluctuating too much and not giving correct data.

   Necessary action to be taken to ensure correct CPTRU details in SCADA. As per 5.4.2 of OISD-STD-141, CPTRU details should be incorporated in SCADA along with trending for useful data for analyzing any abnormal behavior in CPTRU system due to AC/ DC interference issues (Refer recommendation No.7).

6. Valve maintenance records were reviewed which indicate only date of maintenance and okay status. There is no practice for checking valve integrity although provision for the same is provided in the form of drain/vent connections.

   Practice for checking Valve integrity/ status may be followed (Refer recommendation No.8).

7. In main line pumps (at Rewari), tripping of pumps at Low flow and low discharge pressure scenario are not provided as per 8.2 of OISD-STD-141.

   Tripping of pumps to be provided for low flow & low discharge pressure (Refer recommendation No.16).

The External Safety Audit conducted by Oil Industry Safety Directorate has been done on a sample basis. If any recommendation has been given for a certain location, the organization should check and confirm that the same is complied for all other locations based on its relevance through comprehensive survey.

We hope that the recommendations will be implemented in a time bound manner. We solicit your feedback with respect to implementation schedule and status thereof on a quarterly basis. Further, we request that the findings of these inspections may be shared/ disseminated to all concerned including other units for corrective actions, if any, at their end.

Thanking You,

Yours sincerely,

Arun 19/01/2023

(Arun Mittal)
Executive Director

CC: Joint Secretary (R), MOP&NG, New Delhi : For kind information please

एचपीसीएल की रेवाड़ी–कानपुर प्रोडक्ट पाइप लाइन का दूसरा बाहरी सुरक्षा ऑडिट

(5 से 9 दिसंबर, 2022)

2nd External Safety Audit of Rewari-Kanpur Product Pipeline of HPCL

(5th to 9th December, 2022)

लेखा परीक्षक/ EXTERNAL SAFETY AUDITORS:

सुदेश हेम्ब्रम, डीजीएम, आईओसीएल	-	सदस्य
Sudesh Hembram, DGM, IOCL	-	Member
आर के कमल, उप महाप्रबंधक, गेल	-	सदस्य
R. K. Kamal, DGM, GAIL	-	Member
विवेक कुमार , अपर निदेशक, ओआईएसडी	-	सदस्य समन्वयक
Vivek Kumar, Additional Director, OISD	-	Member Coordinator

तेल उद्योग सुरक्षा निदेशालय
Oil Industry Safety Directorate
ISO 9001:2015 certified

तेल उद्योग सुरक्षा निदेशालय
भारत सरकार
पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय
8 वीं मंजिल, ओआईडीबी भवन, प्लॉट संख्या 2, सेक्टर -73, नोएडा, उत्तर प्रदेश, 201301
वेबसाइट: www.oisd.gov.in / टेलीफोन: 0120-2593800

2nd ESA of Rewari-Kanpur Product Pipeline of HPCL

1.0 INTRODUCTION

As per the Executive Director, Oil Industry Safety Directorate approval letter No.- OISD/ENGG-PL/GEN/14 dated 27.10.2022, Rewari-Kanpur Product Pipeline of HPCL (Approx. 443 km) was carried out from 5th to 9th December, 2022 by a team constituted by OISD.

2.0 OBJECTIVE OF EXTERNAL SAFETY AUDIT (ESA)

- To verify efficacy of safety system of the installation by physical Verification.
- To assess compliance of operation & maintenance system with respect to provision of OISD standards/ statutory laws.
- To assess the shortcomings in view of OISD/ statutory requirements.

3.0 MODALITIES OF ESA IN BRIEF

A technical presentation was made by HPCL on 5th December, 2022 at Rewari at the start of the audit covering various stations, pipelines route, profile, salient features, Safety Management System etc.

3.1 The methodology adopted for the audit was as under:

- Site visit.
- Verification of statutory compliances.
- Random checking of safety devices.
- Performance evaluation of critical equipment.
- Verification of maintenance records.
- Interaction with key personnel and employees.
- Verification of PSP/ Earth Pit readings.
- Fire drill.

3.2 Data/ information concerning Pipeline operation and maintenance, pipeline health monitoring, company laid down procedures relating to safety and technical documents were reviewed by the team.

3.3 Observations/ Likely recommendations were shared with senior officers of the HPCL during concluding meeting of the audit on 9th December, 2022 at Kanpur in physical as well as through VC mode.

3.4 Following areas/ stations were visited during the course of audit:

i. Rewari pump station
ii. Cased Crossing, Chainage 34.725 km (Alwar SH)
iii. SV-1 (35.97 km) Chamroda
iv. Bharatpur receiving station
v. SV-4 , 118.4 km, Sinsini
vi. Mathura receiving station

vii. HT crossing, 265.417 km
viii. Intermediate pigging station, Saiyyadpur, 285 km
ix. SV-10, Bhahlolpur
x. Kanpur receiving station

4.0 DETAILS OF PREVIOUS ESA's:

This is the 2nd ESA for the subject product pipeline. The previous ESA was carried out in 2018 and all the points have been complied in the system as per the confirmation given.

5.0 SYSTEM DESCRIPTION: System description is enclosed as **Annexure-A**.

6.0 OBSERVATIONS /RECOMMENDATIONS: Review of documents and observations given in **Annexure B**.

S N	Observations	Recommendations
A	**Mainline/ General/ Common to locations**	
1.	**Training & awareness programmes to contractual staff:** Services of contractual personnel for O&M activities are taken. Similarly, security personnel are also engaged for security of Installation (who are also handling valve closure, DG start-up/ change-over, sump tank change over, F&G system etc.) as well as line patrolling activities. Few training related documents are available. However, course contents and duration are not defined.	In line with the requirements of OISD-STD-154, Training modules with duration and course contents to be covered to be defined and accordingly training to be imparted at regular intervals.
2.	**Incident investigation learnings:** Awareness on past incident learnings/ nearmiss was found lacking at locations. There were no awareness programmes conducted at locations on incident investigations and their learning (except at Kanpur).	Safety alerts/case studies/incident enquiries/ near-miss/ unsafe acts/ conditions etc. appearing in industry and published by OISD to be deliberated in safety meetings for dissemination in line with clause no. 4.1.2 of OISD-GDN-206.
3.	**Work permit system (WPS) gaps wrt OISD-STD-105:** a. **WPS system for station works:** Wide variation in WPS was observed at different locations. At Bharatpur & Mathura, Marketing I/c is the issuer. At Kanpur station Pipeline I/c is the issuer. **WPS system for mainline works:** Offline WPS system is being followed. At Kanpur, shift control room officer is the issuer whereas at Bharatpur & Mathura, Pipeline I/c or 2nd I/c is the issuer. Approved policy/ procedures for WPS system including issuer, safety officer and receiver is not available. b. In station works, control room shift-in-charge is not the signatory, although he is the custodian. c. While checking of records and interactions, few cases were observed (work at SVs/ IPS/ mainline), where work	a. Approved procedures for WPS system (for online/ offline) including issuer, safety officer and receiver to be made for station works as well as mainline works. Site supervision by the signatory to be ensured to meet requirements of OISD-STD-105. b. Role of shift-in-charge in WPS may be incorporated as per 5.0 (a) of OISD-STD-105. c. The observed gap may be reviewed in line with approved

S N	Observations	Recommendations
	permit was taken but evidence of presence of WPS receiver was not found. d. During sump tank cleaning work (confined space entry job), witnessing and signature from concerned personnel involved were not found in JSA. e. Date and Timings were found mismatching in work permit formats and corresponding maintenance formats and SV/ IPS visitor register. Record on training to concerned issuer/ receiver on WPS were not available.	practices & procedures. d. Necessary action to be taken to bridge the gaps during such critical activities. e. The existing WPS system followed at locations to be reviewed critically and adequate training to be imparted to all concerned on various aspects of WPS as per clause 5.0 (x) of OISD-STD-105.
4.	Surge analysis carried out from TVASTHA dated 18.11.22 is available for RKPL line, however, only few scenarios have been considered in the report like ROSOV closure at Kanpur & PCV closure/stuck-up at Mathura terminal. However, many other scenarios are not considered as stipulated in 5.1.9 of OISD-STD-141 like ROSOV closure at Mathura and Bharatpur, intermediate SV valve closures.	Surge analysis considering the other scenarios as stipulated in 5.1.9 of OISD-STD-141 to be carried out or justification with reasoning for not conducting the same to be made available.
5.	For SCADA communication, OFC has been provided and lease line is also provided at intermittent stations as a backup communication (in case of OFC cut/failure). The reliability of backup communication was checked by de-linking the OFC at both the ends one by one. At IPS and SV-10 it was found working, however, at most of the other places it was found not working.	The reasons for unavailability of SCADA through back-up communication to be found out and get corrected. The same may be incorporated in scheduled maintenance also.
6.	**ESD/ Interlock checking:** Interlock checking records at various stations were checked (including report in format: ISF/INT/13) and gaps were observed wrt requirements of 14.0 of OISD-STD-141 and 4.5.4 of OISD-STD-153, as below: a. Document containing details of station specific Interlocks was not available. b. Reports in format: ISF/INT/13 were reviewed for the stations and anomalies were found. E.g. at Mathura interlock testing dated 23.12.21 does not indicate which ESD was actuated and which Equipment were tested. c. In few cases the interlock testing was recorded in operations log book, but in majority of the cases, witnessing by operatioof the interlock checking is not recorded.	a. Details of station specific Interlocks (e.g. sequence of activities, time wise closure/opening of Equipment like SDV/ MOVs/ FCVs etc. as applicable) to be made available. b. Interlock testing should also indicate details of each ESD, Equipment involved and their performance during checking. a. During Interlock testing, witnessing by operations person to be ensured during each interlock testing and recorded.
7.	CPTRU details are coming in SCADA but were found fluctuating too much and not giving correct data.	Necessary action to be taken to ensure correct CPTRU details in SCADA. As per 5.4.2 of OISD-STD-141, CPTRU details should be incorporated in SCADA along with

S N	Observations	Recommendations
		trending for useful data for analysing any abnormal behaviour in CPTRU system due to AC/ DC interference issues.
8.	As per 5.5.5.1 of OISD-STD-141, sectionalising valves shall be provided for isolating sections of pipeline to limit the hazard and facilitate repair and maintenance of the pipeline in case of need. However, during checking of maintenance records, following gaps were observed: a. Valve maintenance records were reviewed which indicate only date of maintenance and okay status. There is no practice for checking valve integrity although provision for the same is provided in the form of drain/vent connections. b. Record for functional checking of MOVs from SCADA is not available.	a. Practice for checking Valve integrity/ status may be followed. This may be achieved either by opening the drain/vent plugs (as per OEM recommendations) or by maintaining differential pressure across valves during shut down period. b. Record for functional checking of MOVs from SCADA to be maintained including important parameters like open/ closure timing/ vibration/ noise etc.
9.	There is no protection against no-flow/ low flow situation in sump pumps provided at stations.	Protection against no- flow/ low flow conditions to be provided as per 5.0 (a) of OISD-STD-119.
10.	At every station, 2 sump tanks are provided (for MS/ HSD each) and the lining up of the sump tanks needs to be carried out during every product change over. Presently, there is no practice of keeping sump tanks line in manually locked open condition nor there is any system interlock to give alarm in case of any failure in lining up of any sump tank.	To meet requirements of 8.8.1 of OISD-STD-141, failsafe connection from TRVs to sump tank be ensured either by manual locked open condition or through some system interlock.
11.	Maintenance/ Visitor register provided at SV/ IPS were reviewed and gaps were observed as below: a. In few cases, entries of receiver of WPS were not available. b. In many cases, name of the contracted personnel was indicated; however, the contracted agency was not mentioned. c. In most cases mention on work performed was not indicated.	a. Site supervision by receiver/ HPCL personnel to be ensured. b. Contracted personnel along with the Contracted agency may be mentioned. c. Practice of capturing brief of work carried out (scheduled/ break down etc.) to be made.
12.	The fire-fighting system is owned, maintained & controlled by Marketing and is commonly shared for Marketing & Pipeline facilities. PLC interface & sharing of F&G alarms between marketing & pipeline is also incorporated. During maintenance of these critical systems at Marketing end (or vice versa), it was conveyed that the same are recorded in operations log book. However, traceability of record on adherence of such communication is not there.	It is recommended that the existing system of communication between the two entities during breakdown/ scheduled maintenances to be reviewed. A reliable system (like separate register for recording such breakdown/ schedule maintenances) to be made.
13.	**Sand buckets stand design:**	Necessary corrective action to be

S N	Observations	Recommendations
	During audit and visit to locations, it was observed that in many of the locations, the design of the weather shade of Sand buckets was such that it was creating unsafe situation for use. Its height was posing sharp edges in front of the face.	carried out for safe and smooth handling of sand buckets during use.
14.	**Zn anode earthing:** a. At Delivery locations (e.g. Mathura/ Bharatpur), the Insulating Joints (with provision of surge diverter) were earthed in un-protected side through Zn anode. During audit, the resistance values were observed on higher side (more than 10 ohm). b. In mainline SVs, Zn anodes are provided for grounding of MOVs & IJs of PT/TT were found exhausted in many cases.	a. The low resistance path to be provided for grounding and accordingly, provision of earthing can be given from suitable mode (either Zn anodes/ station grid) as per 5.4.3 of of OISD-STD-188 and low. b. These to be brought in schedule maintenance for their timely replacement.
15.	Main Gates were not Earthed at SV/IPS locations.	The same to be earthed as per 10.0 of OISD-RP-149.
B	**Rewari PS**	
16.	In main line pumps following alarms/ trips are not provided as per requirements of 8.2 of OISD-STD-141: a. Tripping of pump at Low flow or flow less than minimum continuous stable flow as per 8.2 (x) of OISD-STD-141. b. Tripping of pumps for low discharge pressure scenario as per 8.2 (iii) of OISD-STD-141. This will ensure actuation in case of leak/ burst scenario in mainline.	a. Tripping of pump at Low flow or flow less than minimum continuous stable to be incorporated. b. Tripping of pumps for leak/ burst scenario in mainline to be provided by low discharge pressure or high flow rate as appropriate.
17.	AHU/ HVAC unit is provided in control building with LEL detecters , however, Tripping of AHU system with Hydrocarbon/ LEL detectors is not provided.	As per 5.4 (iii) of OISD-STD-163, Tripping of AHU system with Hydrocarbon/ LEL detectors to be incorporated in control room building.
18.	**ESD push buttons in field:** ESD push buttons in field area were provided but no guard/shield against inadvertent actuation.	ESD push buttons infield to be provided with guard/shield (as provided in control room) against inadvertent actuation.
19.	**Sump tank:** Containment wall was provided around the sump tank, however, it was not intact/sealed at few places in its periphery, which will not serve the intended purpose of containment.	Containment wall to be made intact/sealed all-around for the purpose of containment.
20.	**Instrument display/calibration issues:** a. In TT-2901, local display was not working. In TT-3002, erroneous reading was observed (24 deg showing in SCADA and in field showing 2.5 deg). In TT-7010, local	Corrective action (calibration) to be taken to avoid variations and anomalies in Instrument readings.

S N	Observations	Recommendations
	display was not available. b. PT-6068 was showing 44 kg/cm2 and PG-18 was showing 0.85 kg/cm2,) showing vast variation in readings although were installed at same location. c. In FCV-6055, HMI reading was showing open percentage value as minus value (-21%) whereas, it should be between 0 to 100 % value.	
21.	In Pressure control valve (PCV) section, set pressure for TRV-44 was 5 kg/cm2 whereas the PT-6066 provided in the same section was showing 7.19 kg/cm2.	The reason for such anomaly to be found out and corrective action to be taken accordingly.
22.	**Earthing issues:** a. In MOV-3009, single earthing was observed. b. In Earthpit-64, the measured grid resistance was 3.99 ohm, where the displayed grid resistance was less than 1 ohm. c. Earthing of VHF Tower & JB near surge diverter of Pig launcher were not carried out.	a. Double and distinct earthing to be provided as per Table VII of OISD-RP-149. b. Corrective action need to be done to bring grid resistance below 1 ohm as per 7.0 (II) (b) of OISD-STD-137.. c. Earthing to be carried out as per 10.0 of OISD-RP-149.
23.	Emergency lights are not provided in UPS room.	As per clause 4.6(ii) of OISD-RP-149, emergency power supply/ lights to be provided in UPS room.
C	**SV-1 Chamroda, (35.97 km):**	
24.	a. Inlet and out let of main line pipe are not indicated in SV station wall for identification. b. Tree was planted very near to main line.	a. Inlet and out let to be indicated for identification. b. Corrective action to be taken to ensure roots of tree do not damage coating of main line pipe.
25.	CCTV camera was found not working.	Working of CCTV camera to be restored to meet requirement of 5.3.4 of OISD-STD-141.
26.	PSP values across Insulating Joint (IJ) in PTs was checked, which indicated that IJ was not functioning properly. PSP in Protected side was -1.119 V and in Unprotected Side was -1.098 V.	The reason for the same to be found and corrective action to be taken for correct functioning of IJ.
27.	The measured earthing resistance for main grid was out of range i.e. more than 1 ohm.	Corrective action need to be done to bring grid resistance below 1 ohm as per 7.0 (II) (b) of OISD-STD-137.
D	**Bharatpur RT**	
28.	In Surge Relief Valve (SRV), U/s and D/s HOVs were locked open but MOVs are also provided in the surge line which were not kept in locked open condition.	MOVs to be kept in locked open condition to ensure entire surge line is lined up during operation.
29.	The display of MOV-1204/1203 in HMI was in fault condition.	The correct display and function of MOVs to be ensured in HMI.

S N	Observations	Recommendations
30.	The accuracy of Master meters/ calibrators for instruments were checked and in many cases, they were outside limits prescribed in Annexure-I of OISD-STD-153 as below: a. For Pressure, accuracy was .02% against requirement of .015 %. b. For temperature, accuracy was 1.5 % against requirement of 0.4 %. c. For DC current, accuracy was 0.73% against requirement of 0.2%. d. For AC current, accuracy was 0.93% against requirement of 1.1% which is okay. e. For Resistance accuracy was 0.5% against requirement of 0.03%.	The accuracy level of Master meters/ calibrators to be checked to meet limits prescribed in Annexure-I of OISD-STD-153.
E	**SV-4 , Sinsini, 118.4 km**	
31.	Earth pit outside the gate was showing grid resistance more than 2 ohm.	Corrective action need to be done to bring grid resistance below 1 ohm as per 7.0 (II) (b) of OISD-STD-137.
32.	Auto changeover of RTUs was checked, however, it was found not working.	Corrective action need to be done for auto changeover function.
33.	In CPTRU unit all the parameters were fluctuating. e.g. current value in AJB was fluctuating between .02 to 1.23 A. later on it was conveyed that it may be due to ongoing survey in water department, however, they have not communicated the same.	The exact reason for such variation to be found and rectification to be taken as necessary.
F	**Mathura RT**	
34.	There is an old Encroachment at 162 km, however, Officer patrolling report is showing as NIL encroachment. Reporting to be corrected.	Officer patrolling reporting to be reviewed and should show all the encroachments and other gaps on the date of patrolling.
35.	Sump pump-1402 was given start command from HMI. It was showing running status, however, in field it did not start. It seems that feedback from contactor in field is not incorporated.	Corrective action to be taken for remote operation of sump pump from control room and to show correct status also.
36.	Main and standby PLC auto changeover was found not working.	Corrective action to be aken for auto change over.
G	**IPS Saiyyadpur, 285 km**	
37.	Two pipe supports are provided in protected side of both the incoming and outgoing main line pipe, however, both were found without insulation for arresting CP drainage.	Corrective action need to be done to arrest CP drainage.
38.	Sand bucket having sand covers with stand were provided, but they were not covering entire bucket.	Proper cover to be provided to ensure dry sand for fire-fighting.
39.	OPGD of sump pump was not working.	Rectification for proper functioning of OPGD to be carried out.
40.	Earthing Resistance in EP measured 2.03 Oh in Grid.	Corrective action need to be done to bring grid resistance below 1 ohm as

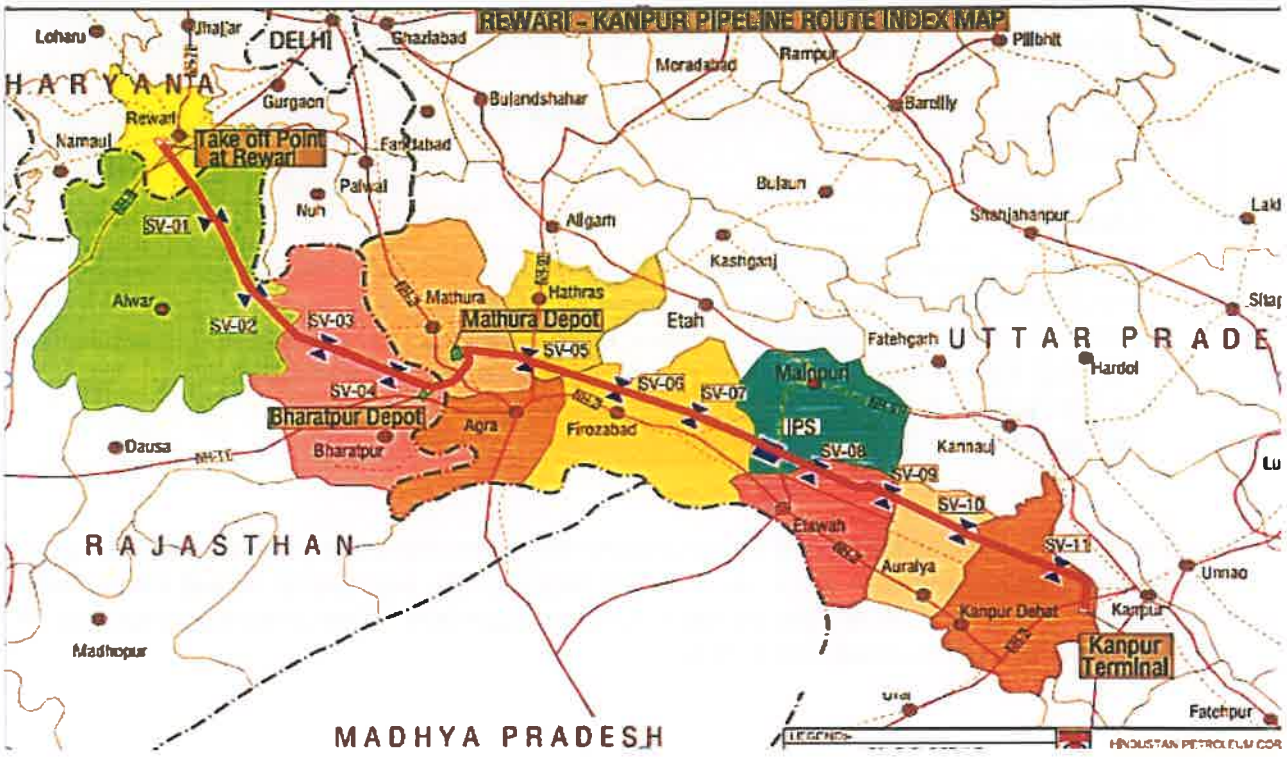
S N	Observations	Recommendations
		per 7.0 (II) (b) of OISD-STD-137.
H	**SV-10, Bhahlolpur**	
41.	Both the processers of RTUs were tested for redundancy and found working okay, however, healthy status of processors (healty/ unhealthy) was not being reflected at SCADA.	Corrective action for showing healthy status of processors at SCADA to be incorporated.
42.	DG neutral was not found earthed with 2 different strips as per OISD 149	DG neutral to be earthed with 2 different strips as per OISD-RP-149 requirements.
I	**Kanpur RT**	
43.	Pilferage occurred at RKPL chainage 337 km in May, 22. PIDS has been provided in the pipeline which detects any attempt before actual pilferage occurred. However, in this case, PIDS possibly did not function. The incident investigation report is not covering the reasons on failure of PIDS in detecting the incident.	The reasons for PIDS failure may be found out to take remedial measures to avoid recurrence and shared with OISD.

The external audit conducted by Oil Industry Safety Directorate has been done on a sample basis. If any recommendations have been given for a certain location, the organization should check and ensure compliance of the same at all other locations wherever applicable. While providing compliance on OISD portal, evidences shall be provided over mail.

System Description

Details of Rewari Kanpur Pipeline as provided during the audit:

ROUTE MAP:



P/L	Length (Kms)	Diameter (inch)	Commissioning	Pipeline Material
Rewari-SV11	409	18"	Sep'2015	API 5L GR X-65
SV11-Kanpur	34	18"	Sep'2015	API 5L GR X-60

From	To	Thickness (mm)	Design Pressure (Kg/cm2)	MAOP (Kg/cm2)	MOP (Kg/cm2)
RRPS	SV1	7.9/8.7	98	94	90
SV1	BRS	7.1/7.9	95	95	78
BRS	MRS	7.9	85	85	73
MRS	SV7	6.4/7.1	85	85	67
SV7	IPS	6.4/7.1	85	85	41
IPS	SV8	7.9	85	85	40
SV8	SV11	6.4/7.1	85	85	38
SV11	KRS	6.4/7.1	78	61	37

MAIN STATIONS & SECTIONALIZING VALVES:

S No.	SV No.	Village Name	SV Ch.(km)	Main Station	District	State
1	SV-1	Chamroda	31.75	Rewari: (Ch.0)	Alwar	RJ
2	SV-2	Mubarikpur	58.5	Bharatpur: (Ch. 141.93)	Alwar	RJ
3	SV-3	Kutukpur	90.5	"	Bharatpur	RJ
4	SV-4	Sinsini	120.75	"	Bharatpur	RJ
5	SV-5	Pachwari	172.25	Mathura: (Ch. 164.95)	Hathras	UP
6	SV-6	Etah	203.3	"	Firozabad	UP
7	SV-7	Husainpur Garhiy	239	"	Firozabad	UP
8	IPS	Saiyadpur Pran	278.8	"	Mainpuri	UP
9	SV-8	Uhrai	310	Kanpur: (Ch. 443.33)	Etawah	UP
10	SV-9	Dhakpura	338.5	"	Etawah	UP
11	SV10	Bahalolpur	370	"	Auriya	UP
12	SV11	Judgemaiya	399.5	"	Kanpur deh	UP

P/L	Scrapper Pigging (Half Yearly)	Intelligent Pigging
RRPS-IPS	Nov'22	Feb'17
IPS-KRS	Nov'22	Jan'18

AC/DC Interference Survey – RKPL:

P/L	Survey	Date	Recommendation	Compliance	Remarks
RRPS-BRS	AC/DC	Oct'19	NIL	NA	NIL
BRS-MRS	AC/DC	Feb'20	5	Zinc Anode+ SSD inst points	Mitigation Completed
MRS-IPS	AC/DC	Aug'20	NIL	NA	NIL
IPS-KRS	AC/DC	Feb'20	7	Zinc Anode+ SSD inst points	Mitigation Completed

Integrated CP Survey:

Section	Last Survey	Survey	Action Taken	Pending	Next Survey Due on
RRPS-BRS	Oct'19	CIPL	CP Current Tuned	0	Oct'2024
		CAT/DCVG	Coating Repair work completed	0	
BRS-MRS	Feb'20	CIPL	CP Current Tuned	0	Jan'2025
		CAT/DCVG	Coating Repair work completed	0	
MRS-IPS	Aug'20	CIPL	CP Current Tuned	0	July'2025
		CAT/DCVG	Coating Repair work completed(153.3)	0	
IPS-KRS	Dec'19	CIPL	CP Current Tuned	0	Dec'2024
		CAT/DCVG	Coating Repair at 3 & casing short repaired at other 2	0	

ROU MANAGEMENT:

- Day time surveillance is being carried out by 47 Nos of Line walkers for the entire stretch of 443 KMs daily.
- Night time surveillance is being carried out by 9 Nos of Night patrolling vehicles.
- The security tracking system (STS) is a GPS based online tracking system for monitoring line walker movement in a predefined geo fenced corridor.
- Officers cover the entire line by physical line walking every quarter.
- OFC based Pipeline Intrusion Detection System (PIDS) is in place and in operation.
- The One View/PIDS alarms are verified by Day line walkers, security supervisors & guards in night patrolling vehicles.
- HPCL using AI/ML based One View system which works on existing PIDS System for optimizing no. of alarms by filtering false alarms. System under stabilization.

Annexure-B
Observations during the ESA:

Mainline/ General/ Common to locations:

- Last HAZOP & QRA was done by M/ Environment Technical Services Pvt. Ltd. in October-2020
- PESO license no. P-2(40869 dated 11.9.15 is available for the main line 443 km.
- Environment clearance from MoEF is available vide F.No. J-11011/239/1010-IA-II(I) dated 19.03.2013 & dated 19.08.2015.
- ERDMP for RKPL is available dated 12.03.21.
- ILI of the RKPL has been carried out in 2017 % 2018.
- CI is done with 6 PPM dosing rate.
- Corrosion coupon readings indicate corrosion rate less than 1 MPY.

Rewari RT:

- In TT-2901, local display was not working. In TT-3002, erroneous reading observed (24 deg showing in SCADA and in field showing 2.5 deg). In TT-7010, local display was not available. PT-6068 (showing 44 kg/cm2) and PG-18 (0.85 kg/cm2) were installed at same location but showing vast variation in readings.
- Details/ tagging were not observed on Instruments (like maintenance due date, last calibration, set value etc.).
- In MOV-3009, single earthing was observed.
- In Pressure control valve (PCV) section, set pressure for TRV-44 is 5 kg/cm2 and PT-6066 in the same section was showing 7.19 kg/cm2.
- MCP-005 was operated and found working satisfactorily.
- In Earthpit-64, the measured grid resistance was 8.4 ohm, pit resistance was 3.99 ohm (where as displayed grid resistance was less than 1 ohm).
- In FCV-6055, HMI reading was showing open percentage value as minus value (-21%) which is not correct. It should be between 0 to 100 % value.
- MOV-1094 and MOV-1095 were observed in off condition i.e. no power. In HMI, NRVs of process lines are not indicated.
- Sand bucket shade was unsafe as it could hit face while using.
- Fencing Gate of Pumping area was not earthed.
- ESD Testing is being done but there is no proper report is available

Cased crossing Alwar state higway, Chainage 34.725:

- PSP: Casing: -0.42 V; carrier pipe: -1.12 V

SV-1 (35.97 km) Chamroda:

- PSP: Casing: -0.42 V; carrier pipe: -1.12 V.
- Rewari side OFC communication was disconnected, but communication through Bharatpur end was not restored.
- Intrusion alarm, smoke detector checked and found okay.
- CP data Is not updating in SCADA.

Bharatpur RT:

- There is no no-flow/ low flow switch in sump pump.
- Pig signaler was tested and found okay.
- Earthpit-12, grid resistance was 0.44 ohm which is okay.

- PCV was in power off mode (in delivery side).
- CP data Is not updating in SCADA.
- CP Unit Monitoring report Data was fluctuating and not matching with Real Data.
- In sample line, plastic/ rubber tubing were used to draw sample.

SV-4 , Sinsini, 118.4 km:

- Sand bucket design was creating unsafe condition.
- Earth pit-10, grid resistance was 1.14; smoke detector 104 operated and found okay.
- Back up communication not available from Mathura end is not through. Configuration in router system to be checked and rectified.
- In SCADA wrong PSP data is showing/ updating also.
- Zn Cell provided for grounding of IJ of TT was indicating -0.712 V, which is exhausted.

Mathura RT:

- In SV maintenance reports, SV-05 was seen not available in remote mode. On checking it was found that it was not available in remote mode for long (Not available in 27.12.20 report also). It has been rectified recently.
- Grid resist: EP-03 was 0.31 ohm which is okay.
- Low and no flow swtich not given for sump pump.
- Pig signallar-8402 activated and found working.
- MOV-DBBBV-TK-19: was showing faluty indication blinking.
- Smoke detectod-128 operated and found okay.
- The CCTV of SV-5 and IPS was found blurred at night.
- All PCVs are kept in power off condition.
- Zn cell of both Main IJ are weak around - .9 V

HT Xing, 265.417 km:

- **PSP 1.223 V; AC V 2.052 V.**

IPS Saiyyadpur, 285 km:

- In visitor register, external parties are visiting and doing maintenance for UT/ crane testing etc. but are not writing their company name. HPCL/ O&M person entry was not found in few cases.
- Scrapper detector-8606 was tested and found okay.
- Smoke detector-SD-08 was tested okay. OPGD of sump pump, was not working. Local display for gas detectors was not available.
- Back up communication channel was tested and found working for SCADA data.
- Main line Both valves Zn Cell were weak: -0.712 V &-0 .785 V.
- Main line Both valves Zn Cell weak - -..712 V & .785

SV-10, Bhahlolpur:

- Both the processers of RTUs were tested for redundancy and found working okay, however, healthy status of processors (healty/ unhealthy) was not being reflected at SCADA.Scrapper detector-8606 was tested and found okay.
- Zn Cell Of TT D/S is weak

Kanpur RT:

- Both the processers of RTUs were tested for redundancy and found working okay, however, healthy status of processors (healty/ unhealthy) was not being reflected at SCADA.Scrapper detector-8606 was tested and found okay.
- Back up channel communication changeover for SCADA data communication not working.

Chairman Managing Director HPCL

From: rajan singh <ps-ed.oisd@gov.in>
Sent: 20 January 2023 14:54
To: Chairman Managing Director HPCL
Cc: ed-noida.oisd@gov.in; js.mkt-png@gov.in
Subject: एचपीसीएल के रेवाड़ी-कानपुर उत्पाद पाइपलाइन के दूसरे बाहरी सुरक्षा ऑडिट की रिपोर्ट / 2nd External Safety Audit report of HPCL's Rewari-Kanpur Product Pipeline.
Attachments: ESA_report_HPCL_RKPL_19.01.23.pdf

Warning: External email,"Please open with Caution. Do not click on suspicious attachments or links".

आदरणीय महोदय,

कृपया दिनांक 05 से 09 दिसम्बर, 2022 के दौरान ओआईएसडी द्वारा किए गए एचपीसीएल के रेवाड़ी-कानपुर उत्पाद पाइपलाइन के दूसरे बाहरी सुरक्षा ऑडिट की रिपोर्ट संलग्न प्राप्त करें।

Attached please find 2nd External Safety Audit report of HPCL's Rewari-Kanpur Product Pipeline carried out by OISD during 05th December to 09th December, 2022.

सादर/ Regards,

राजन सिंह/ Rajan Singh
निजी सचिव कार्यकारी निदेशक/ PS to Executive Director
तेल उद्योग सुरक्षा निदेशालय/ Oil Industry Safety Directorate
नोएडा (उत्तर प्रदेश)/ Noida (Uttar Pradesh)

GSTIN No. : 09AAACH1118B1ZA

CIN No. - L23201MH1952 GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)

Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)

Control Room Ph. : 7084155561, 7084155609

To

Date: 13.06.2023

The Regional Officer

UPPCB, Etawah

Subject: Submission of Environment Statement for the financial year 2022-2023.

Ref: (1) 140739/UPPCB/Firozabad (UPPCBRO)/CTO/air/Etawah/2021 Dt:12.11.2021

(2) 140887/UPPCB/Firozabad (UPPCBRO)/CTO/Water/Etawah/2021 Dt:12.11.2021

Sir,

We are herewith submitting the Environment Statement (Annual) report for the financial year 2022-23 for HPCL-RKPL with reference to consent to operate mentioned above in reference.

Kindly acknowledge receipt.

Thanking you,



Very truly yours,

Rajesh D. Waghmare
DGM- Installation
(Location In-charge)
RKPL-Kanpur Receiving Station

Enclose: (1) Air & water quarterly Environment monitoring report (SV-08)
(2) Air & water quarterly Environment monitoring report (SV-09)

FORM V

[See rule 14]

ENVIRONMENTAL STATEMENT FOR FINANCIAL YEAR 2022-2023

PART - A

1.	Name & address of the owner/occupier of the Industry operation or process	Hindustan Petroleum Corp. Ltd Rewari Kanpur Pipeline (RKPL) Kanpur Receiving Station (KRS) Village – Rasulpur Gogumau, Raipur Gajner Road, Tehsil – Akbarpur, Kanpur Dehat - 209121
2.	Industry category Primary – (STC Code) Secondary (STC Code)	(1)140739/UPPCB/Firozabad (UPPCBRO)/CTO/air/Etawah/ 2021 Dt:12.11.2021 (2)140887/UPPCB/Firozabad (UPPCBRO)/CTO/Water/ Etawah/2021 Dt:12.11.2021
3.	Production capacity – Units	Receiving Petroleum Product (HSD/MS/SKO). Capacity 3.2 MMTPA
4.	Year of establishment	2016
5.	Date of the last environmental statement submitted	11.06.2022

PART - B

Water & Raw Material Consumption

1. Water consumption m3/d
   - a. Process — Nil
   - b. Cooling — Nil
   - c. Domestic — 0.5 m3/day

Name of Products	**Process water consumption per unit of product output**	
	During the previous financial year	**During the current financial year**
(1)	**(2)**	**(3)**
Pumping, storage & transportation of Petroleum Products	NA	Nil

2. Raw material consumed

Name of raw material	Name of Products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
NA	NA	NA	NA

- Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

Pollutants	Quantity of pollutants discharged	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed stds with reasons
1. Water Domestic waste water and floor wash only	Nil	NA	There will not be any variation of concentration and quantity and ensure that the same will comply with the Consent issued by UPCB
2. Air	Nil	NA	There will not be any variation of concentration and quantity and ensure that the same will comply with the Consent issued by UPCB

PART - D
HAZARDOUS WASTE
(as specified under Hazardous waste (Management & Handling) Rules 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
a) From process	NA	Nil
b) From pollution control facilities	NA	Nil

PART - E
SOLID WASTES

Total Quantity (kg)

		During the previous financial year	During the current financial year
a)	From process	NIL	NIL
b)	From pollution control facility	NIL	NIL
c) 1)	Quantity recycled or re-utilised within the unit	NIL	NIL
2)	Sold	NIL	NIL
3)	Disposed	NIL	NIL

PART - F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both three categories of wastes.

NA

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

NA

PART - H

Additional measures/investment proposal for environmental protection, abatement of pollution, prevention of pollution

NA

PART - I

Any other particulars for improving the quality of the environment

1. Maintained good housekeeping.
2. HPCL, being a Govt, of India undertaking, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an industry operation or process)

13/6/23

Date: 13.06.2023

Name : **Rajesh D. Waghmare**

Designation: **DGM - Installation**

Address: Hindustan Petroleum Corp. Ltd
Rewari Kanpur Pipeline (RKPL)
Kanpur Receiving Station (KRS)
Village – Rasulpur Gogumau,
Raipur Gajner Road,
Tehsil – Akbarpur,
Kanpur Dehat – 209121

GSTIN No. : 09AAACH1118B1ZA CIN No. - L23201MH1952GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)
Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)
Control Room Ph. : 7084155561, 7084155609

To

Date: 13.06.2023

The Regional Officer

UPPCB, Kanpur Dehat

Subject: Submission of Environment Statement for the financial year 2022-2023.

Ref: (1) 122890/UPPCB/Kanpur Dehat (UPPCBRO)/CTO/air/Auraiya/2021 Dt:20.03.2021

(2) 122876/UPPCB/Kanpur Dehat (UPPCBRO)/CTO/Water/Auraiya/2021 Dt:20.03.2021

Sir,

We are herewith submitting the Environment Statement (Annual) report for the financial year 2022-23 for HPCL-RKPL with reference to consent to operate mentioned above in reference.

Kindly acknowledge receipt.

Thanking you,

Very truly yours,

Rajesh D. Waghmare
DGM- Installation
(Location In-charge)
RKPL-Kanpur Receiving Station

उ०प्र० प्रदूषण नियंत्रण बोर्ड कानपुर
प्राप्त किया
14/06/2023

Enclose: (1) Air & water quarterly Environment monitoring report (SV-10)
(2) Air & water quarterly Environment monitoring report (SV-11)
(3) Air & water quarterly Environment monitoring report (Kanpur Receiving Station)

FORM V

[See rule 14]

ENVIRONMENTAL STATEMENT FOR FINANCIAL YEAR 2022-2023

PART - A

1.	Name & address of the owner/occupier of the Industry operation or process	Hindustan Petroleum Corp. Ltd Rewari Kanpur Pipeline (RKPL) Kanpur Receiving Station (KRS) Village – Rasulpur Gogumau, Raipur Gajner Road, Tehsil – Akbarpur, Kanpur Dehat - 209121
2.	Industry category Primary – (STC Code) Secondary (STC Code)	(1) 122890/UPPCB/Kanpur Dehat (UPPCBRO)/ CTO/ air/Auraiya/2021 Dt:20.03.2021 (2) 122876/UPPCB/Kanpur Dehat (UPPCBRO)/CTO/ Water/Auraiya/2021 Dt:20.03.2021
3.	Production capacity – Units	Receiving Petroleum Product (HSD/MS/SKO). Capacity 3.2 MMTPA
4.	Year of establishment	2016
5.	Date of the last environmental statement submitted	11.06.2022

PART - B

Water & Raw Material Consumption

1. Water consumption m3/d

a. Process	Nil
b. Cooling	Nil
c. Domestic	0.5 m3/day

Name of Products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
(1)	(2)	(3)
Pumping, storage & transportation of Petroleum Products	NA	Nil

2. Raw material consumed

Name of raw material	Name of Products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
NA	NA	NA	NA

- Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C
POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT
(PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

Pollutants	Quantity of pollutants discharged	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed stds with reasons
1. Water Domestic waste water and floor wash only	Nil	NA	There will not be any variation of concentration and quantity and ensure that the same will comply with the Consent issued by UPCB
2. Air	Nil	NA	There will not be any variation of concentration and quantity and ensure that the same will comply with the Consent issued by UPCB

PART - D
HAZARDOUS WASTE
(as specified under Hazardous waste (Management & Handling) Rules 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
a) From process	NA	Nil
b) From pollution control facilities	NA	Nil

PART - E
SOLID WASTES

		Total Quantity (kg)	
		During the previous financial year	During the current financial year
a)	From process	NIL	NIL
b)	From pollution control facility	NIL	NIL
c) 1)	Quantity recycled or re-utilised within the unit	NIL	NIL
2)	Sold	NIL	NIL
3)	Disposed	NIL	NIL

PART - F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both three categories of wastes.

NA

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production

NA

PART - H

Additional measures/investment proposal for environmental protection, abatement of pollution, prevention of pollution

NA

PART - I

Any other particulars for improving the quality of the environment

1. Maintained good housekeeping.
2. HPCL, being a Govt, of India undertaking, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an industry operation or process)

13/6/23

Date: 13.06.2023

Name : Rajesh D. Waghmare

Designation: DGM - Installation

Address: Hindustan Petroleum Corp. Ltd
Rewari Kanpur Pipeline (RKPL)
Kanpur Receiving Station (KRS)
Village – Rasulpur Gogumau,
Raipur Gajner Road,
Tehsil – Akbarpur,
Kanpur Dehat – 209121

GSTIN No. : 09AAACH1118B1ZA CIN No. - L23201MH1952GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)
Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)
Control Room Ph. : 7084155561, 7084155609

To,

Date: 13.06.2023

The Regional Officer
UPPCB, Etawah

Subject: Submission of quarterly monitoring report (Q-3 and Q-4) for the financial year 2022-2023.

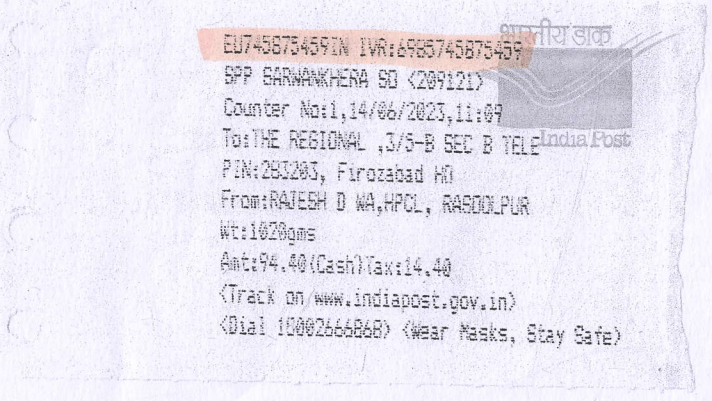
Ref: (1) 140739/UPPCB/Firozabad (UPPCBRO)/CTO/Air/Etawah/2021 Dt: 12.11.2021
(2) 140887/UPPCB/Firozabad (UPPCBRO)/CTO/Water/Etawah/2021 Dt: 12.11.2021

Sir,

We are herewith submitting the quarterly monitoring report (Q-3 and Q-4) for the financial year 2022-2023 for HPCL-RKPL with reference consent to operate mentioned above.

Kindly acknowledge receipt

Thanking you,



Very Truly yours

Rajesh D. Waghmare
DGM-Installation
(Location In-charge)
RKPL-Kanpur Receiving Station

Enclose: Air & water quarterly monitoring report (Q-3 & Q-4).

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/25/281222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	15.61	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	27.55	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.20	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	28.18	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	13.49	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.06	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/26/281222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Battery Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	9.83	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.76	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	49.28	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.68	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.77	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.08	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/27/281222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.56	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.83	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.78	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.18	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.58	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.58	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/ST/021/281222**
Report Date : **03/01/2023**

Sample Description : **Stack Emission**
Sample Mark : **DG 25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	30.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	95.0	IS 11255 (Part-3)2008	NA
3	Velocity	m/sec	14.1	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1438.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	mg/Nm^3	0.134	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	mg/Nm^3	BLQ(LOQ 0.001)	IS 11255 (Part-2) 1985	NA
7	Oxides of Nitrogen	mg/Nm^3	2.805	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	%V/V	2.514	IS 13270 - 1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/006/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.04	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ; 0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	120.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	28.05	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	90.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	49.49	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ; 0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	12.15	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	248.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	34.10	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.23	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	6.91	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ; 0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ; 0.05)	Annex K of IS 13428-2005	0.2	1.0

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/006/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ; 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ; 0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/006/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Gama HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ; 0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/006/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ (LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/006/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
40	Chloramines	mg/l	BLQ(LOQ; 0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ;0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ;0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/040/281222**
Report Date : **30/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/007/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.94	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ; 1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ; 0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	320.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	72.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	230.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	94.02	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ; 0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ; 0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	34.02	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	473.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	52.60	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.41	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	11.9	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.054	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ; 0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/007/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/007/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/007/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ;0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ; 0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/007/281222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Bromodichloromethane	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/041/281222**
Report Date : **30/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -28/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.
Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS: 10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : **27/12/2022 -27/12/2022**

Report No. : **HECSL/AN/001/271222**
Report Date : **30/12/2022**

S.No.	Monitoring Location & Hourly Leq Noise	
	Time (Hrs)	Near Control Room
1	06-07	55.1
2	07-08	60.2
3	08-09	58.9
4	09-10	55.7
5	10-11	53.3
6	11-12	53.3
7	12-13	53.0
8	13-14	54.6
9	14-15	54.0
10	15-16	54.1
11	16-17	52.0
12	17-18	52.8
13	18-19	51.4
14	19-20	55.0
15	20-21	55.5
16	21-22	53.5
17	22-23	48.4
18	23-24	47.2
19	00-01	45.5
20	01-02	46.6
21	02-03	46.6
22	03-04	47.1
23	04-05	43.9
24	05-06	45.1
	Ld	**62.6**
	Ln	**54.7**
	Ldn	**61.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i..	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

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TEST REPORT

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Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AN/002/271222**
Report Date : **30/12/2022**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/12/2022 -27/12/2022**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	95.2	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	74.1	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/08/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.82	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.65	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.30	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.48	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.72	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.80	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	-	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/09/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.73	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.65	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	56.41	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.38	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.82	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.65	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	-	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/010/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.83	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.15	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	49.27	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.33	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.77	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.58	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.1)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon		BLQ(LOQ 0.1)	-	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/ST/010/281222**
Report Date : **04/01/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/12/2022 -28/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **03/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	30.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	108.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	12.9	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	470.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.120	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.752	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.155	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/015/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.33	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	240.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	56.11	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	150.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	54.43	4500 Cl -— B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	24.3	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	340.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	40.29	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.31	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	8.1	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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Report No. : **HECSL/WT/015/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Report No. : **HECSL/WT/015/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation

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TEST REPORT

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Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/015/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : 29/12/2022
Completed On : 04/01/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l		IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/29	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/29	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/29	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/29	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
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Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/029/301222**
Report Date : **02/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **01/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/016/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.91	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	330.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	76.15	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	240.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	74.23	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	34.02	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	451.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.90	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.41	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	9.5	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.01)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/016/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**

Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation

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TEST REPORT

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Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/016/291222**
Report Date : **05/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)		0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation

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Sampling/received Date : **29/12/2022 -29/12/2022**
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Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/030/301222**
Report Date : **02/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **01/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**

Report No. : **HECSL/AN/003/291222**
Report Date : **02/01/2023**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	65.3
2	07-08	68.9
3	08-09	64.0
4	09-10	64.7
5	10-11	60.8
6	11-12	60.1
7	12-13	64.4
8	13-14	61.3
9	14-15	64.6
10	15-16	61.0
11	16-17	61.6
12	17-18	63.1
13	18-19	63.7
14	19-20	62.7
15	20-21	63.0
16	21-22	61.9
17	22-23	59.5
18	23-24	56.2
19	00-01	56.0
20	01-02	55.5
21	02-03	54.6
22	03-04	53.8
23	04-05	52.4
24	05-06	55.5
	Ld	**60.6**
	Ln	**53.1**
	Ldn	**59.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

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TEST REPORT

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Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AN/003/291222**
Report Date : **02/01/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPC
1	DG -25 KVA Door Open	93.9	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	74.4	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/005/270323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.26	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.31	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.20	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.58	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.53	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.44	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/006/270323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Battery Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.82	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.54	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.28	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.31	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.92	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.35	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/007/270323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**

Completed On : **31/03/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.95	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.66	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.38	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.60	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.35	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon		BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/ST/001/270323**
Report Date : **31/03/2023**

Sample Description : **Stack Emission**
Sample Mark : **DG 25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	32.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	90.0	IS 11255 (Part-3)2008	NA
3	Velocity	m/sec	13.9	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1417.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	mg/Nm^3	0.148	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	mg/Nm^3	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of Nitrogen	mg/Nm^3	2.768	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	%V/V	2.483	IS 13270 - 1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/009/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.67	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	270.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	56.11	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	260.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	79.18	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	31.59	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	439.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	43.96	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.23	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.86	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/009/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah**
Uttar Pradesh

Report No. : **HECSL/WT/009/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**

Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/009/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/009/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah**
Uttar Pradesh

Report No. : **HECSL/MB/001/290323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **29/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/011/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.27	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	380.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	80.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	340.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	108.87	4500 Cl -— B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	43.74	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	598.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	39.48	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.36	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	10.34	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.072	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/011/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/011/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**

Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah**
Uttar Pradesh

Report No. : **HECSL/WT/011/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/011/270323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **27/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/002/290323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -27/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **29/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/223 -25/03/2023**

Report No. : **HECSL/AN/001/250323**
Report Date : **31/03/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	54.0
2	07-08	59.0
3	08-09	57.8
4	09-10	54.6
5	10-11	52.3
6	11-12	52.3
7	12-13	52.0
8	13-14	53.5
9	14-15	53.0
10	15-16	53.1
11	16-17	51.0
12	17-18	51.8
13	18-19	50.4
14	19-20	53.9
15	20-21	54.4
16	21-22	52.5
17	22-23	47.5
18	23-24	46.3
19	00-01	44.6
20	01-02	45.7
21	02-03	45.7
22	03-04	46.2
23	04-05	43.1
24	05-06	44.2
	Ld	**55.8**
	Ln	**47.0**
	Ldn	**54.3**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 8 - Usrai, Safai, Etawah**
Uttar Pradesh

Report No. : **HECSL/AN/002/230323**
Report Date : **31/03/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -23/03/2023**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	94.2	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	73.1	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/017/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.92	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.61	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.26	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.10	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.48	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.20	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/018/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.46	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.32	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.63	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.48	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.25	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AA/019/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On :**01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.52	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.64	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	51.83	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.38	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.63	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.35	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/ST/021/280323**
Report Date : **01/04/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **DG 25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	32.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	114.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	12.7	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	565.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.128	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.723	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.138	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/024/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.62	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	310.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	64.13	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	280.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	59.38	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	36.45	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	432.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	41.88	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.37	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	8.90	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory
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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/024/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/024/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/024/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/024/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/021/300323**
Report Date : **02/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -30/03/2023**
Analysis Commenced On : **31/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

U. Anju
Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/025/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.63	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	320.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	68.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	340.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	74.23	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	36.45	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	467.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	39.46	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.45	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	8.97	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.06	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/025/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/025/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/025/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/WT/025/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ 0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/MB/022/300323**
Report Date : **02/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -30/03/2023**
Analysis Commenced On : **31/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**

Report No. : **HECSL/AN/003/260323**
Report Date : **31/03/2023**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -26/03/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	64.0
2	07-08	67.6
3	08-09	62.8
4	09-10	63.5
5	10-11	59.6
6	11-12	58.9
7	12-13	63.2
8	13-14	60.1
9	14-15	63.4
10	15-16	59.8
11	16-17	60.4
12	17-18	61.9
13	18-19	62.5
14	19-20	61.5
15	20-21	61.8
16	21-22	60.7
17	22-23	58.4
18	23-24	55.1
19	00-01	54.9
20	01-02	54.4
21	02-03	53.5
22	03-04	52.8
23	04-05	51.4
24	05-06	54.4
	Ld	**64.4**
	Ln	**56.5**
	Ldn	**63.0**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 9 - Dhakpur, Bharthana, Etawah Uttar Pradesh**

Report No. : **HECSL/AN/003/260323**
Report Date : **31/03/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/03/2023 -26/03/2023**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB
1	DG -25 KVA Door Open	94.6	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	73.8	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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GSTIN No. : 09AAACH1118B1ZA

CIN No. - L23201MH1952GO1008858

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड आफिस : 17, जमशेदजी टाटा रोड, मुम्बई-400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020

कानपुर रिसीविंग स्टेशन, रेवाड़ी कानपुर पाइपलाइन, गाँव : रसूलपुर गोगूमऊ, रायपुर गजनेर रोड, तहसील : अकबरपुर, जिला : कानपुर देहात - 209 121 (उ.प्र.)

Kanpur Receiving Station, Rewari Kanpur Pipeline, Village : Rasulpur Gogumau, Raipur Gajner Road, Tehsil : Akbarpur, District : Kanpur Dehat 209 121 (U.P.)

Control Room Ph. : 7084155561, 7084155609

Date: 13.06.2023

To,

The Regional Officer
UPPCB, ~~Auraiya~~ Kanpur Dehat

Subject: Submission of quarterly monitoring report (Q-3 and Q-4) for the financial year 2022-2023.

Ref: (1) 122890/UPPCB/Kanpur Dehat (UPPCBRO)/CTO/air/Auraiya/2021 Dt:20.03.2021
(2) 122876/UPPCB/Kanpur Dehat (UPPCBRO)/CTO/Water/Auraiya/2021 Dt:20.03.2021

Sir,

We are herewith submitting the quarterly monitoring report (Q-3 and Q-4) for the financial year 2022- 2023 for HPCL-RKPL with reference consent to operate mentioned above.

Kindly acknowledge receipt

Thanking you,

उ०प्र० प्रदूषण नियंत्रण बोर्ड कार्यालय
प्राप्त किया
14/06/2023
कानपुर देहात

Very Truly yours

Rajesh D. Waghmare
DGM-Installation
(Location In-charge)
RKPL-Kanpur Receiving Station

Enclose: Air & water quarterly monitoring report (Q-3 & Q-4)

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/011/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near MCC Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.40	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.77	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	49.15	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.33	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.44	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.01	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 1)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **IIECSL/AA/012/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Water House**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.76	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.39	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.47	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.65	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.72	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.18	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/013/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near building back side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.49	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.06	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	47.22	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	27.66	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	13.39	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.06	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.1)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/ST/044/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **DG Stack Emission**
Sample Mark : **DG 160 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	32.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	136.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	16.5	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1493.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.136	IS 11255 (Part-1) 1985	≤ 0.2
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.684	IS 11255 (Part-7) 2005	≤ 4.0 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	1.825	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/014/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.** Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.35	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	380.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	84.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	280.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	108.87	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	41.31	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	268.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.26	IS 3025(Part - 24):1986	200	400
15	Fluoride		BLQ(LOQ:0.2)			
16	Fluoride	mg/l	0.25	IS 3025 (Part - 60):1986	1.0	1.5
17	Nitrate as NO3	mg/l	7.69	IS 3025 (Part 34): 1988	45	No Relaxation
18	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
19	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
20	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
22	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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FSSAI Notified Laboratory
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/014/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
24	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
25	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
26	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
27	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
28	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
30	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
31	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
32	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
33	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)		0.05	No Relaxation
34	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

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Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/014/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
35	Nickel	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/001	0.02	No Relaxation
36	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
37	Barium as Ba	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
38	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
39	Alpha Emitters	Bq/l	BLQ(LOQ:0.009)	IS 14194 (Part - 2):1994	0.1	No Relaxation
40	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
41	Chloramines	mg/l	BLQ(LOQ:0.1)		4.0	No Relaxation
42	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
43	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
44	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

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VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
45	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
46	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/MB/014/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **03/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/015/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.73	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	390.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	88.17	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	410.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	84.12	4500 Cl –– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	41.31	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	486.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.26	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.24	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	5.76	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.03	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Anaiysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8.1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/015/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/015/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.071	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/015/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **IIECSL/MB/043/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**
Analysis Commenced On : **02/01/2023** Completed On : **03/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS: 10500:2012.

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AN/005/020123**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **06/01/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Noise Monitoring (Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -02/01/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise Near Control Room
1	06-07	65.0
2	07-08	66.3
3	08-09	63.2
4	09-10	63.2
5	10-11	62.8
6	11-12	62.9
7	12-13	62.6
8	13-14	60.8
9	14-15	63.5
10	15-16	61.1
11	16-17	63.0
12	17-18	63.0
13	18-19	63.4
14	19-20	62.3
15	20-21	64.1
16	21-22	62.1
17	22-23	59.2
18	23-24	57.7
19	00-01	56.0
20	01-02	57.7
21	02-03	54.7
22	03-04	55.2
23	04-05	54.8
24	05-06	55.0
	Ld	**62.6**
	Ln	**54.7**
	Ldn	**61.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
Silence Zone		: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/030/311222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -31/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.80	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.64	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	49.27	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	26.19	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.81	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.57	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/031/311222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -31/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	9.20	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.63	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	45.81	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.67	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.44	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.49	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/032/311222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -31/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.92	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.08	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	51.22	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.73	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.80	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.91	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/ST/039/311222**
Report Date : **06/01/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **31/12/2022 -31/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	30.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	99.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	13.7	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1350.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.130	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.858	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.510	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/025/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.72	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	280.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	60.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	290.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	84.12	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	31.59	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	463.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	44.59	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.27	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	9.06	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l		HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B #	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+ #	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/025/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/025/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/025/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/025/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.000001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/MB/040/301222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

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Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/026/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.42	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agrfeeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	380.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	84.17	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	340.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	103.92	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	41.31	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	558.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	55.26	IS 3025(Part - 24):1986	200	400
15	Fluoride					
16	Fluoride	mg/l	0.31	IS 3025 (Part - 60):1986	1.0	1.5
17	Nitrate as NO3	mg/l	10.26	IS 3025 (Part 34): 1988	45	No Relaxation
18	Iron as Fe	mg/l	0.03	IS 3025 (Part - 53):2003	1.0	No Relaxation
19	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
20	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
21	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/026/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)		0.2	1.0
23	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
24	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
25	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
26	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	HECS-G/INS/SOP/009	0.1	0.3
27	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
28	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
30	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
31	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
32	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
33	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)		0.05	No Relaxation
34	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
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TEST REPORT

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Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/026/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/026/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
35	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
36	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
37	Barium as Ba	mg/l	0.024	HECS-G/INS/SOP/001	0.7	No Relaxation
38	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
39	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
40	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
41	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
42	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
43	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation

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TEST REPORT

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Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/026/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
45	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
46	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/MB/041/301222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:-NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh
Sample Description : Noise Monitoring(Ambient Noise)
Sample Drawn By :Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 30/12/2022 -30/12/2022

Report No. : HECSL/AN/004/301222
Report Date : 06/01/2023

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	54.1
2	07-08	59.1
3	08-09	57.8
4	09-10	54.7
5	10-11	52.3
6	11-12	52.3
7	12-13	52.0
8	13-14	53.6
9	14-15	52.9
10	15-16	53.0
11	16-17	50.9
12	17-18	51.8
13	18-19	50.3
14	19-20	54.0
15	20-21	54.4
16	21-22	52.5
17	22-23	47.4
18	23-24	46.3
19	00-01	44.6
20	01-02	45.7
21	02-03	45.7
22	03-04	46.1
23	04-05	43.0
24	05-06	44.3
	Ld	**62.6**
	Ln	**54.7**
	Ldn	**61.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AN/008/301222**
Report Date : **06/01/2023**

Sample Description : **Noise Monitoring(DG Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/12/2022 -30/12/2022**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	93.2	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	74.1	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/005/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.84	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.16	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.77	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.16	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.55	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.68	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.1)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon		BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
Dr. RAJKUMAR SAMUEL
Director Technical

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TEST REPORT

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/006/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.56	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.35	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	48.22	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.08	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.59	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.66	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.1)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

Dr. RAJKUMAR SAMUEL
Director Technical

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/007/301222**
Report Date : **06/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	9.82	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.61	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.38	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.16	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.47	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.15	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/ST/008/291222**
Report Date : **05/01/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -29/12/2022**
Analysis Commenced On : **29/12/2022**
Completed On : **04/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	31.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	110.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	13.8	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1248.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.141	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.580	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.851	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/018/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.06	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	120.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	28.05	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	100.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	49.49	4500 Cl –– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	12.15	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	259.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	27.64	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.23	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	7.14	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ;0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/018/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ;0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)		0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Report No. : **HECSL/WT/018/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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TEST REPORT

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/018/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ;0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ;0.1)		4.0	No Relaxation
41	Molybdenum #	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/018/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/MB/025/301222**
Report Date : **02/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **01/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

Dr. RAJKUMAR SAMUEL
Director Technical

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Ph: 42985555 / 43635555 Fax : 42985500
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/019/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable	Permissible
1	pH (at 25 °C)	-	7.68	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	290.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	64.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	260.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	84.13	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	31.59	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	473.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	38.11	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.36	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	10.2	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ;0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/019/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ;0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Analysis Commenced On : **30/12/2022**
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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/019/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable	Permissible
	2,4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ;0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation

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Report No. : **HECSL/WT/019/301222**
Report Date : **06/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **30/12/2022**
Completed On : **05/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/MB/026/301222**
Report Date : **02/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**
Analysis Commenced On : **31/12/2022**
Completed On : **01/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:-NA - Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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Report No. : **HECSL/AN/001/301222**
Report Date : **02/01/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	72.4
2	07-08	72.6
3	08-09	70.4
4	09-10	68.0
5	10-11	65.6
6	11-12	67.9
7	12-13	70.0
8	13-14	66.3
9	14-15	66.2
10	15-16	66.0
11	16-17	66.4
12	17-18	69.4
13	18-19	66.9
14	19-20	68.1
15	20-21	68.8
16	21-22	61.9
17	22-23	58.8
18	23-24	59.4
19	00-01	58.8
20	01-02	58.9
21	02-03	58.0
22	03-04	56.6
23	04-05	56.4
24	05-06	59.7
	Ld	**68.7**
	Ln	**58.5**
	Ldn	**67.1**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

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TEST REPORT

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AN/001/301222**
Report Date : **02/01/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/12/2022 -30/12/2022**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	95.8	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	71.4	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/007/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On :**04/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.26	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.48	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.64	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.52	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.10	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/008/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Warehouse**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On : **04/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.32	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.41	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.30	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.44	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.74	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.29	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/009/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **Ambient Air Quality**
Sampling Location : **Near MCC Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On : **04/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.84	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.53	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.26	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	20.52	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.32	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.83	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Report No. : **HECSL/ST/013/300323**
Report Date : **04/04/2023**

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.**

Sample Description : **Stack Emission**
Sample Mark : **DG 160 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023**
Completed On : **04/04/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	33.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	146.0	IS 11255 (Part-3)2008	NA
3	Velocity	m/sec	16.3	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1482.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.124	IS 11255 (Part-1) 1985	≤ 0.2
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of Nitrogen	g/Kw-hr	2.536	IS 11255 (Part-7) 2005	≤ 4.0 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	1.814	IS 13270 - 1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Report No. : HECSL/WT/016/300323
Report Date : 04/04/2023

Sample Description : WATER
Sample Mark : Drinking Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023

Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.43	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	340.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	68.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	74.23	4500 Cl –– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	41.31	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	423.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	36.47	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.37	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.51	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.12	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2021	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/016/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On : **04/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.**

Report No. : **HECSL/WT/016/300323**
Report Date : **04/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023**

Completed On : **04/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/016/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On : **04/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2.4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manage

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Report No. : HECSL/WT/016/300323
Report Date : 04/04/2023

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : WATER
Sample Mark : Drinking Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023
Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	µg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Miiligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/MB/014/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **31/03/2023** Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Report No. : HECSL/WT/017/300323
Report Date : 04/04/2023

Sample Description : WATER
Sample Mark : Ground Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023

Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.41	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeab le	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	390.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	80.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	370.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	59.38	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	46.17	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	457.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	39.47	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.42	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	4.61	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2021	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C). 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited, Report No. : HECSL/WT/017/300323
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal Report Date : 04/04/2023
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : WATER
Sample Mark : Ground Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023 Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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TEST REPORT

Report No. : HECSL/WT/017/300323
Report Date : 04/04/2023

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : WATER
Sample Mark : Ground Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023
Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Report No. : HECSL/WT/017/300323
Report Date : 04/04/2023

Sample Description : WATER
Sample Mark : Ground Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023

Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.062	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.05)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Report No. : HECSL/WT/017/300323
Report Date : 04/04/2023

Sample Description : WATER
Sample Mark : Ground Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 29/03/2023 -30/03/2023
Analysis Commenced On : 30/03/2023

Completed On : 04/04/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/MB/036/300323**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal** Report Date : **04/04/2023**
VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**
Analysis Commenced On : **31/03/2023** Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Kanpur Receiving Station (KRS), Kanpur Terminal VPO Rasulpur Gogumau, Tehsil - Akabarpur, District - Kanpur Dehat, U.P.**

Report No. : **HECSL/AN/005/290323**
Report Date : **02/04/2023**

Sample Description : **Noise Monitoring (Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -30/03/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	63.7
2	07-08	65.0
3	08-09	62.0
4	09-10	62.0
5	10-11	61.6
6	11-12	61.7
7	12-13	61.4
8	13-14	59.6
9	14-15	62.3
10	15-16	59.9
11	16-17	61.8
12	17-18	61.8
13	18-19	62.2
14	19-20	61.1
15	20-21	62.9
16	21-22	60.9
17	22-23	58.1
18	23-24	56.6
19	00-01	54.9
20	01-02	56.6
21	02-03	53.6
22	03-04	54.1
23	04-05	53.7
24	05-06	53.9
	Ld	**63.9**
	Ln	**57.2**
	Ldn	**62.6**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manage

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/016/290323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 - 29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.73	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.51	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.28	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.63	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.52	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.20	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/017/290323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.58	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.63	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.41	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.81	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.98	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.39	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AA/018/290323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.83	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.38	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.62	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.16	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.28	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.36	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/ST/016/290323**
Report Date : **01/04/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **DG 25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	32.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	106.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	13.9	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1296.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.126	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.953	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.524	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/018/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.45	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	340.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	76.15	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	250.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	74.23	4500 Cl -— B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	36.45	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	443.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	41.28	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.41	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.56	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/018/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/018/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/018/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/018/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/MB/024/310323**
Report Date : **03/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -31/03/2023**
Analysis Commenced On : **01/04/2023**

Completed On : **02/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

U. Anju
Verified By

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Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/019/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.12	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	390.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	80.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	310.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	138.56	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	46.17	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	598.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.26	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.45	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	3.47	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.06	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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HUBERT ENVIRO CARE SYSTEMS Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lead Technical

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/019/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/019/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) Ltd. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/019/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.039	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/WT/019/290323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/MB/025/310323**
Report Date : **03/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **29/03/2023 -31/03/2023**
Analysis Commenced On : **01/04/2023**
Completed On : **02/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

U. Anju
Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By :**Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -27/03/2023**

Report No. : **HECSL/AN/004/270323**
Report Date : **31/03/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	53.1
2	07-08	58.0
3	08-09	56.7
4	09-10	53.6
5	10-11	51.3
6	11-12	51.3
7	12-13	51.0
8	13-14	52.6
9	14-15	51.9
10	15-16	52.0
11	16-17	49.9
12	17-18	50.8
13	18-19	49.3
14	19-20	53.0
15	20-21	53.3
16	21-22	51.5
17	22-23	46.5
18	23-24	45.4
19	00-01	43.7
20	01-02	44.8
21	02-03	44.8
22	03-04	45.2
23	04-05	42.2
24	05-06	43.4
	Ld	**54.7**
	Ln	**46.0**
	Ldn	**53.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) Ltd. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 11 - Jajmuiya, Derapur, Ramabainagar, Uttar Pradesh**

Report No. : **HECSL/AN/008/270323**
Report Date : **31/03/2023**

Sample Description : **Noise Monitoring(DG Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -27/03/2023**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	93.5	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	73.7	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Tech. Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/003/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.62	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.58	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.26	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.93	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.35	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.49	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HECS ENVIRO CARE SYSTEMS Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/004/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.85	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.68	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.32	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	26.38	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.88	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.52	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HECS ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/AA/005/280323**
Report Date : **01/04/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.65	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.84	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.28	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.65	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.29	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/ST/006/280323**
Report Date : **01/04/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **DG 25 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**
Analysis Commenced On : **28/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	32.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	102.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	13.6	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1342.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.146	IS 11255 (Part-1) 1985	≤ 0.3
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.530	IS 11255 (Part-7) 2005	≤ 4.7 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.820	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

Verified By

HECS ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/007/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.84	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	310.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	64.13	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	69.28	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	36.45	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	436.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	44.27	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.39	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.16	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.1)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manage

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Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/007/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory

D. ANUSUYA
Deputy Quality Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/007/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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Authorized Signatory
D. ANUSUYA
Deputy Quality Manage

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/007/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**

Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/007/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/MB/007/290323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **30/03/2023**

Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/008/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.38	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	350.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	72.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	340.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	89.07	4500 Cl -– B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	41.31	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	526.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	43.67	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.41	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	9.36	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.04	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.03)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/008/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ 0.1)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

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Sample Description : **WATER**
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Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
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					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

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TEST REPORT

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Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/008/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

HECS ENVIRO CARE SYSTEMS (P) Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/WT/008/280323**
Report Date : **01/04/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -2903/2023**
Analysis Commenced On : **29/03/2023**
Completed On : **01/04/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	mg/l	BLQ(LOQ 0.05)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

ENVIRO CARE SYSTEMS Chennai 600 032

Authorized Signatory
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Deputy Quality Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**

Report No. : **HECSL/MB/008/290323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **28/03/2023 -29/03/2023**
Analysis Commenced On : **30/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manage

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh**
Sample Description :**Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **27/03/2023 -28/03/2023**

Report No. : **HECSL/AN/001/270323**
Report Date : **31/03/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise
		Near Control Room
1	06-07	71.0
2	07-08	71.2
3	08-09	69.0
4	09-10	66.7
5	10-11	64.3
6	11-12	66.6
7	12-13	68.6
8	13-14	65.0
9	14-15	64.9
10	15-16	64.7
11	16-17	65.1
12	17-18	68.1
13	18-19	65.6
14	19-20	66.8
15	20-21	67.5
16	21-22	60.7
17	22-23	57.7
18	23-24	58.3
19	00-01	57.7
20	01-02	57.8
21	02-03	56.9
22	03-04	55.5
23	04-05	55.3
24	05-06	58.5
	Ld	**69.4**
	Ln	**59.1**
	Ldn	**67.8**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

HUBERT ENVIRO CARE SYSTEMS (P) LTD Chennai 600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : SV 10 - Bahlolpur, Bidhuna, Auraiya, Uttar Pradesh
Sample Description :Noise Monitoring(Ambient Noise)
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 27/03/2023 -28/03/2023

Report No. : HECSL/AN/001/270323
Report Date : 31/03/2023

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -25 KVA Door Open	94.3	75 Max
2	DG-25 KVA Door Close (1 m distance from Acoustic room)	72.9	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

HERT ENVIRO CARE SYS
Chennai
600 032

Authorized Signatory
D. ANUSUYA
Deputy Quality Manager

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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

CIN:L23201MH1952GOI008858

रॉंमामण्डी–रेवाड़ी–कानपुर पाइपलाइन, भरतपुर प्राप्ति स्टेशन, ग्राम व पोस्ट–धौरमुई, मथुरा रोड़, भरतपुर–321025 (राज॰) मो॰: 9414039527

RAMANMANDI-REWARI-KANPUR PIPELINE, BHARATPUR RECEIVING STATION, VILLAGE & POST - DHORMUI, MATHURA ROAD, BHARATPUR-321025 (RAJ.) MOB: 9414039527

आर.के.पी.एल./ओ.पी.एन./22-23/02

दिनाँक:07/06/23

राजस्थान प्रदूषण नियंत्रण बोर्ड
मुख़र्जी नगर , 321001
भरतपुर, राजस्थान

विषय:- **वित्तीय वर्ष 2022 -23 का पर्यावरण विवरण (Environmental Statement) जमा करने हेतु ।**

संदर्भ:- 2019-2020/एचडीफ/2780 सहमति जल एवं वायु आदेश, दिनॉक: 10/10/2019

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस. वी. स्टेशन-3 (ग्राम-कुतकपुर, तहसील-नगर, जिला - भरतपुर) ,एस. वी. स्टेशन-4 (ग्राम-सिनसिनी, तहसील-डीग, जिला - भरतपुर) एवं भरतपुर रिसीविंग स्टेशन की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022 -23 अक्टूबर से मार्च (अर्धवार्षिक) के लिए प्राप्त करें ।

धन्यवाद,

क्षेत्रीय कार्यालय राजस्थान
पत्र प्राप्ति सं. 1172
दि. 8/6/23

भवदीय,
Sudip Ghosh
सुदीप घोष
उप महाप्रबंधक-पाइपलाइन स्टेशन
एच् पी सी एल , आरकेपीएल
भरतपुर, राजस्थान।

1245 FORM - V
(See rule 14)

ENVIRONMENTAL STATEMENT FOR OCTOBER TO MARCH OF FINANCIAL YEAR 2022-23

PART-A

1.	Name and address of the owner/ Occupier of the industry Operation or process.	:	Hindustan Petroleum Corporation Limited Ramanmandi Rewari Kanpur Pipeline, Bharatpur Receiving Station. Village & Post - Dhormui, Mathura Road, Bharatpur-321025 (Raj.)
2.	Industry category Primary-(STC Code) Secondary- (STC Code)	:	संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति जल आदेश दिनॉक – 10/10/19 संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति जल आदेश दिनॉक – 10/10/19
3.	Production capacity – Units.	:	Passing of Petroleum Products 4.271 MMTPA
4.	Year of establishment	:	Aug '2015
5.	Date of the last environmental Statement submitted.	:	18.11.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a.	Process	:	0
b.	Cooling	:	0
c.	Domestic	:	0.5

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. Water: Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. Air	NIL	PM_{10} : 89.40 µg / m^3 $PM_{2.5}$: 38.20 µg / m^3 SO_2 : 22.20 µg / m^3 NO_2 : 32.10 µg / m^3 CO : 1.29 µg / m^3 Total Hydrocarbon as CH_4 : Not detected	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Bharatpur during the financial year 2022-23 (From October to March)

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment:

1. Good Housekeeping Maintained.
2. HPCL, being a Govt. of India undertaking company, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : Sudip Ghosh
Designation : DGM-Pipeline Station
Address : Hindustan Petroleum Corp. Ltd.
Rewari Kanpur Pipeline,
Bharatpur Receiving Station.
Village & Post - Dhormui,
Mathura Road,
Bharatpur-321025 (Rajasthan)

1245 FORM - V
(See rule 14)

ENVIRONMENTAL STATEMENT FOR OCTOBER TO MARCH OF FINANCIAL YEAR 2022-23

PART-A

1.	Name and address of the owner/ Occupier of the industry Operation or process.	:	Hindustan Petroleum Corporation Limited Ramanmandi Rewari Kanpur Pipeline, SV 3,Village -Kutukpur Tehsil-Nagar, District-Bharatpur (Raj.)
2.	Industry category Primary-(STC Code) Secondary- (STC Code)	:	संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति वायु आदेश दिनॉक – 10/10/2019 संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति वायु आदेश दिनॉक – 10/10/2019
3.	Production capacity – Units.	:	Passing of Petroleum Products 4.271 MMTPA
4.	Year of establishment	:	Aug '2015
5.	Date of the last environmental Statement submitted.	:	18.11.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a.	Process	:	0
b.	Cooling	:	0
c.	Domestic	:	0.1

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. **Air**	NIL	PM_{10} : 88.0 µg / m^3 $PM_{2.5}$: 39.42 µg / m^3 SO_2 : 31.40 µg / m^3 NO_2 : 42.95 µg / m^3 CO : 1.30 µg / m^3 Total Hydrocarbon as CH_4 : Not Detected	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Bharatpur during the financial year 2022-23 (From October to March)

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment:

1. Good Housekeeping Maintained.
2. HPCL, being a Govt. of India undertaking company, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an Industry operation or Process)

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Name : Sudip Ghosh
Designation : DGM-Pipeline Station
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Rewari Kanpur Pipeline,
Bharatpur Receiving Station.
Village & Post - Dhormui,
Mathura Road,
Bharatpur-321025 (Rajasthan)

1245 FORM - V
(See rule 14)

ENVIRONMENTAL STATEMENT FOR OCTOBER TO MARCH OF FINANCIAL YEAR 2022-23

PART-A

1.	Name and address of the owner/ Occupier of the industry Operation or process.	:	Hindustan Petroleum Corporation Limited Ramanmandi Rewari Kanpur Pipeline, SV 4,village -sinsini Tehsil-Deeg, District-Bharatpur (Raj.)
2.	Industry category Primary-(STC Code) Secondary- (STC Code)	:	संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति जल आदेश दिनॉक – 10/10/2019 संदर्भ संख्या – 2019-2020 / एचडीफ / 2780 सहमति वायु आदेश दिनॉक – 10/10/2019
3.	Production capacity – Units.	:	Passing of Petroleum Products 4.271 MMTPA
4.	Year of establishment	:	Aug '2015
5.	Date of the last environmental Statement submitted.	:	18.11.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a.	Process	:	0
b.	Cooling	:	0
c.	Domestic	:	0.1

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. **Air**	NIL	PM_{10} : 80.95 µg / m^3 $PM_{2.5}$: 52.45 µg / m^3 SO_2 : 35.45 µg / m^3 NO_2 : 36.44 µg / m^3 CO : 1.50 µg / m^3 Total Hydrocarbon as CH_4 : Not detected	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Bharatpur during the financial year 2022-23 (From October to March)

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment:

1. Good Housekeeping Maintained.
2. HPCL, being a Govt. of India undertaking company, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : Sudip Ghosh
Designation : DGM-Pipeline Station
Address : Hindustan Petroleum Corp. Ltd.
Rewari Kanpur Pipeline,
Bharatpur Receiving Station.
Village & Post - Dhormui,
Mathura Road,
Bharatpur-321025 (Rajasthan)

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

CIN:L23201MH1952GOI008858

रॉमामण्डी-रेवाड़ी-कानपुर पाइपलाइन, भरतपुर प्राप्ति स्टेशन, ग्राम व पोस्ट-धौरमुई, मथुरा रोड़, भरतपुर-321025 (राज॰) मो॰: 9414039527

RAMANMANDI-REWARI-KANPUR PIPELINE, BHARATPUR RECEIVING STATION, VILLAGE & POST - DHORMUI, MATHURA ROAD, BHARATPUR-321025 (RAJ.) MOB: 9414039527

आर.के.पी.एल./ओ.पी.एन./22-23 /02

दिनाँक:07/06/2023

राजस्थान प्रदूषण नियंत्रण बोर्ड
डी-ब्लाक , अम्बेडकर नगर
राजगढ़ रोड, अलवर, राजस्थान
301030

विषय:- **वित्तीय वर्ष 2022-23 का पर्यावरण विवरण (Environmental Statement) जमा करने हेतु ।**

संदर्भ:- 2019-2020/एचडीफ/2757 सहमति जल एवं वायु आदेश, दिनॉक: 08.07.19
महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस. वी. – 2 (ग्राम-मुबारिकपुर, तहसील-रामगढ़, जिला - अलवर) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 अक्टूबर से मार्च (अर्धवार्षिक) के लिए प्राप्त करें ।

धन्यवाद,

भवदीय,

Sudip Ghosh

सुदीप घोष
उप महाप्रबंधक-पाइपलाइन स्टेशन
एच् पी सी एल , आरकेपीएल
भरतपुर, राजस्थान।

Received
07/06/23

Regional Office

1245 **FORM - V**
(See rule 14)
ENVIRONMENTAL STATEMENT FOR OCTOBER TO MARCH OF FINANCIAL YEAR 2022-23

PART-A

1.	Name and address of the owner/ Occupier of the industry Operation or process.	:	Hindustan Petroleum Corporation Limited Ramanmandi Rewari Kanpur Pipeline, SV2, Village - Mubarikpur, Tehsil- Ramgarh District-Alwar (Raj.)
2.	Industry category Primary-(STC Code) Secondary- (STC Code)	:	संदर्भ संख्या – 2019-2020 / एचडीफ / 2757 सहमति जल आदेश दिनॉक – 08/07/2019 संदर्भ संख्या – 2019-2020 / एचडीफ / 2757 सहमति वायु आदेश दिनॉक – 08/07/2019
3.	Production capacity – Units.	:	Passing of Petroleum Products 4.271 MMTPA
4.	Year of establishment	:	Aug '2015
5.	Date of the last environmental Statement submitted.	:	18.11.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a.	Process	:	0
b.	Cooling	:	0
c.	Domestic	:	0.1

Name of Products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
(1)	(2)	(3)
Transportation of Petroleum Products	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. **Air**	NIL	PM_{10} : 94.32 µg / m^3 $PM_{2.5}$: 46.41 µg / m^3 SO_2 : 26.34 µg / m^3 NO_2 : 34.54 µg / m^3 CO : 1.46 µg / m^3 Total Hydrocarbon as CH_4 : Not Detected	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Bharatpur during the financial year 2022-23 (From October to March)

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment:

1. Good Housekeeping Maintained.
2. HPCL, being a Govt. of India undertaking company, shall make every effort to improve the quality of environment.

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

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Designation : DGM-Pipeline Station
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Rewari Kanpur Pipeline,
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Village & Post - Dhormui,
Mathura Road,
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+91-191-2465597
info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000946F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Pipeline Area
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	38.20	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	89.40	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	22.20	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	32.10	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	21.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.29	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	43.20	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

TC-6366

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303270111
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Pipeline Area
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000947F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	10:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	39.50	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	89.90	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	23.60	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	33.40	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	22.50	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.31	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	44.10	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303270112
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	10:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000948F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Control Room Building
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	36.10	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	86.20	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	20.10	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	30.40	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	19.80	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.19	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	41.40	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303270113
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	27/03/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Control Room Building
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000949F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	27/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	71.4	64.8

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000950F
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	27/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 125 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	120
Ambient Air Temperature °C	:	15

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.11	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303270114
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	27/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 125 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	120
Ambient Air Temperature °C	:	15
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.65	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.14		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.74	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.29	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000951F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	27/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	58.4	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	100.2			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	73.7	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000952F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	27/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.71	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	320	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	200	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	160	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	38	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	5.80	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.14	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	40	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	14.58	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000953F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	27/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water(Storage Tank Water)

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.35	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	360	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	230	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	150	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	10.80	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.82	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	38	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	13.36	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000954F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	28/03/2023
Time of Sampling (Hrs)	:	09:30 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	46.41	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	94.32	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	26.34	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	34.54	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	27.32	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.46	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	46.24	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark :*ND= Not Detected; **NA**= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202303280110
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	28/03/2023
Time of Sampling (Hrs)	:	09:30 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000955F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	28/03/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	OutsideDG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Jatin
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	43.90	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	95.54	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	30.30	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	33.20	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	23.40	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.60	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	42.40	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202303280111
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	28/03/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Outside DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Jatin
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000956F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	28/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Jatin
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	73.4	64.9

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000957F
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	28/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	121
Ambient Air Temperature °C	:	28
Flue Gas Velocity (m/s)	:	14.02

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.10	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202303280112
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	28/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	121
Ambient Air Temperature °C	:	28
Flue Gas Velocity (m/s)	:	14.02

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.67	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.12		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.54	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.24	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000958F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	28/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	55.2	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	98.3			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	72.7	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000959F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	28/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.55	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	550	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	385	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	180	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	140	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	70	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	55	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.01	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	70	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	1.22	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E. coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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(RHYTHM BASSON*)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000960F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	28/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.90	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	293	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	170	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	140	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	80	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	35	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.41	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	65	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	1.8	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E. coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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(RHYTHM BASSON*)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000961F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	29/03/2023
Time of Sampling (Hrs)	:	09:10 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m³	39.42	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m³	88	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m³	31.40	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m³	42.95	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m³*	32.40	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m³	1.30	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m³	42.50	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m³*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m³	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021 +91-9013591021, +91-9013552273 labsnitya@gmail.com www.nityalab.com

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43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India
+91-191-2465597
info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202303290110
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	29/03/2023
Time of Sampling (Hrs)	:	09:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Dist. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000962F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	29/03/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Outside DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m³	47.70	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m³	90.45	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m³	31.45	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m³	41.35	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m³*	30.22	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m³	1.30	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m³	52.35	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m³*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m³	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Dist. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303290111
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	29/03/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Outside DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000963F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	29/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Jatin Sharma
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	72.4	66.8

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000964F
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	29/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	156
Ambient Air Temperature °C	:	30
Flue Gas Velocity (m/s)	:	13.29

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.09	0.2	IS:11255(P-1)

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SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202303290113
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	29/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	156
Ambient Air Temperature °C	:	30
Flue Gas Velocity (m/s)	:	13.29

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.61	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.10		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.64	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.16	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000965F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	29/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	55.2	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	97.8			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	69.2	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000966F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	29/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	8.13	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	380	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	350	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	190	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	160	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	40	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.7	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	70	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	3.65	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E. coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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(RHYTHM BASSON*)

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SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000967F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	29/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.60	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	420	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	370	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	180	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	70	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	30	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.2	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	62	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	6.07	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000968F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	10:10 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	52.45	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	80.95	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	35.45	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	36.44	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	30.45	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.50	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	42.30	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

TC-6366

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+91-191-2465597
info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202303300110
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	10:10 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000969F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Store room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	43.45	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	95.42	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	30.39	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	42.45	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	29.32	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.20	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	49.10	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303300111
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Store room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000970F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	11:10 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	MCC Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	46.25	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	84.31	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	32.45	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	40.45	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	35.42	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.30	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	60.45	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202303300112
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	30/03/2023
Time of Sampling (Hrs)	:	11:10 AM
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	MCC Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	29
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000971F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	30/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Jatin Sharma
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	72.8	66.4

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatabie to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000972F
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	30/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	125
Ambient Air Temperature °C	:	27
Flue Gas Velocity (m/s)	:	13.18

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.07	0.2	IS:11255(P-1)

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201050110
Test Report Date: 07/04/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	30/03/2023
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	125
Ambient Air Temperature °C	:	27
Flue Gas Velocity (m/s)	:	13.18

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.54	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.07		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.57	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.21	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000973F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	30/03/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	59.4	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	99.5			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	76.4	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000974F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	31/03/2023
Test Started On	:	31/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	30/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.84	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	480	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	410	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	185	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	130	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	80	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	29.45	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.80	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	62	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	7.29	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	0.10	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000975F
Test Report Date: 07/04/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	30/03/2023
Test Started On	:	30/03/2023
Test Completed On	:	06/04/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	30/03/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.90	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	570	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	342	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	170	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	150	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	60	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	20	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.05	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	40	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	17.01	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN/100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN/100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000044F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	07/01/2023
Time of Sampling (Hrs)	:	09:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	38.90	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	88.90	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	22.60	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	32.70	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	21.80	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.35	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	43.60	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202301070110
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	07/01/2023
Time of Sampling (Hrs)	:	09:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: ***ND**= Not Detected; **NA**= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000045F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	07/01/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	OutsideDG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	41.80	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	92.90	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	26.40	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	37.20	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	26.20	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.51	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	47.30	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202301070111
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	07/01/2023
Time of Sampling (Hrs)	:	09:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Outside DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

+91-129-2241021 +91-9013591021, +91-9013552273 labsnitya@gmail.com www.nityalab.com

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000046F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	07/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	72.3	63.1

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000049F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	107
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.45

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.06	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202201070110
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	107
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.45

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.81	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.10		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.63	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.21	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000048F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	07/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	56.7	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	96.3			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	70.1	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000050F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	07/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.79	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	460	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	320	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	190	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	130	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	42	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	22	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.3	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	52	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	14.58	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000051F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ground Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	05/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.85	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	480	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	350	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	180	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	20	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.1	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	50	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	13.36	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000006F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	03/01/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Pipeline Area
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	41.45	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	92.10	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	25.20	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	35.10	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	24.20	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.49	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	46.10	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a) pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201040111
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	03/01/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Pipeline Area
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000012F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m³	42.10	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m³	93.10	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m³	26.10	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m³	36.20	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m³*	25.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m³	1.50	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m³	47	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m³*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m³	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201040112
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near DG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000013F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Control Room Building
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m³	39.80	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m³	89.90	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m³	23.90	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m³	33.80	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m³*	22.70	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m³	1.39	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m³	44.60	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m³*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m³	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201040113
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Control Room Building
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000011F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	04/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	72.3	63.1

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000016F
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	04/01/2023
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 125 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	120
Ambient Air Temperature °C	:	15

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.10	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201040110
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	04/01/2023
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 125 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	120
Ambient Air Temperature °C	:	15
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.72	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.12		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.71	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.32	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000015F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	04/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	56.7	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	98.3			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	71.2	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000017F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	05/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.80	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	346	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	330	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	180	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	130	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	6.14	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.11	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	62.4	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	5.83	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Absent	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Absent	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000018F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Ground Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	05/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water (Storage Tank Water)

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.42	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	390	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	320	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	170	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	150	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	49	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	11.65	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.11	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	59	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	11.54	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Absent	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Absent	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000019F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	47.98	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	85.40	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	29.30	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	33.50	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	26.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.30	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	48.30	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

TC-6366

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info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202301050110
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	10:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.10
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: ***ND**= Not Detected; **NA**= Not Applicable, DL-Detection Limit

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info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000020F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	10:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Store Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	39.10	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	92.76	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	25.66	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	40.80	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	25.90	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.16	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	43.75	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202301050111
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	10:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Store Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000021F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	MCC Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	53.66	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	88.45	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	28.39	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	36.34	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	28.55	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.51	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	51.30	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202301050112
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	05/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023s
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	MCC Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	1.00
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: ***ND**= Not Detected; **NA**= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000022F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	05/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	72.1	65.3

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000025F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	05/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	132
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.62

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.08	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201050110
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	05/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	132
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.62

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.67	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.09		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.67	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.22	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000024F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	05/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	58.7	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	97.2			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	71.2	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

TC-6366

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info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000029F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	06/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.50	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	540	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	386	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	175	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	140	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	65	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	25.45	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.95	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	49	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	12.76	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	0.10	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000030F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ground Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	05/01/2023
Test Started On	:	05/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	06/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.70	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	335	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	185	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	156	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	56	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	22.45	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.30	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	59.60	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	8.748	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000031F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	06/01/2023
Time of Sampling (Hrs)	:	09:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	44.10	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	95	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	28.10	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	38.20	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	27.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.57	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	49.10	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202301140115
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	06/01/2023
Time of Sampling (Hrs)	:	09:20 AM
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Main Gate
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: ***ND**= Not Detected; **NA**= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Dist. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000032F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	OutsideDG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	43.80	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	94.50	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	27.20	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	37.30	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^{3*}	26.50	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^{3*}	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.47	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	48.90	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^{3*}	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^{3*}	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^{3*}	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^{3*}	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Dist. Bharatpur, Rajasthan, INDIA

Test Report No. : 202301140116
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	04/01/2023
Time of Sampling (Hrs)	:	11:50 AM
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	OutsideDG Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.12
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.98
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Ambient Temperature (°C)	:	12
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

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SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000033F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	06/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr. Rajendra Pratap Gupta
Place of Monitoring	:	Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		**75 dB(A)**	**70 dB(A)**
1	Near Main Gate	71.9	65.4

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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Test Report

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SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000041F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	127
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.05	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202201060110
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 25 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	127
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.67	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.12		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.66	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.19	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000034F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	06/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 125 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	56.7	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	99.6			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	71.3	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000042F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	07/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	8.02	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	420	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	310	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	110	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	39	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	26	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.9	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	50	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	10.93	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000043F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Ground Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	07/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.80	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	315	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	150	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	100	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	57.40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	23.75	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.1	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	44	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	9.72	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000025F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	05/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	132
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.62

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.08	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

Test Report No. : 202201050110
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	05/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	132
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.62

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.67	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.09		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.67	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.22	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000041F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	127
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.05	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

Test Report No. : 202201060110
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	127
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.24

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.67	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.12		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.66	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.19	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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info@nitylab.com www.nitylab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000049F
Test Report Date: 16/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	107
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.45

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.06	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

Test Report No. : 202201070110
Test Report Date: 13/01/2023

Sample Particulars:

Nature of the Sample	:	**Stack Gas Emission**
Date of Sampling	:	07/01/2023
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DG Set of 20 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	107
Ambient Air Temperature °C	:	14
Flue Gas Velocity (m/s)	:	12.45

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.81	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.10		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.63	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.21	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

NITYA LABORATORIES Authorised

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

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43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India
+91-191-2465597
info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-4, (Rewari Kanpur Pipeline)
Village Sinsini Tehsil Bharatpur
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000030F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	05/01/2023
Test Started On	:	05/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	06/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.70	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	335	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	185	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	156	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	56	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	22.45	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.30	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	59.60	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	8.748	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

TC-6366

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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CORPORATE OFFICE & CENTRAL LABORATORIES :-
PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA
+91-129-2241021 +91-9013591021, +91-9013552273 labsnitya@gmail.com www.nityalab.com

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NITYA LABORATORIES
43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India
+91-191-2465597
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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-3, (Rewari Kanpur Pipeline)
Village Kutukpur, Tehsil Nagar
Distt.Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000043F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	09/01/2023
Test Started On	:	09/01/2023
Test Completed On	:	14/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	07/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.80	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	315	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	150	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	100	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	57.40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	23.75	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.1	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	44	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	9.72	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
SV-2, (Rewari Kanpur Pipeline)
Village Mubarikpur, Tehsil Ramgarh
Distt. Alwar, Rajasthan, INDIA

ULR No. : TC636623000000051F
Test Report Date: 16/01/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	05/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.85	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	480	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	350	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	180	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	120	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	40	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	20	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	2.1	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	50	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	13.36	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less than 2	Absent	Absent	IS 1622

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(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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(RAVINDER MITTAL)

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+91-191-2465597
info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Bharatpur Receiving Station (Rewari Kanpur Pipeline)
Village Dhormui, Bharat-Mathura Road
Distt. Bharatpur, Rajasthan, INDIA

ULR No. : TC636623000000018F
Test Report Date: 13/01/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	06/01/2023
Test Started On	:	06/01/2023
Test Completed On	:	12/01/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	05/01/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water (Storage Tank Water)

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.42	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	390	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	320	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	170	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	150	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	49	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	11.65	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	1.11	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	59	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	11.54	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Absent	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Absent	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

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(RAVINDER MITTAL)

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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन : 0565-2480003

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480003

दिनांक: 11.04.2023

सेवा में,

क्षेत्रीय अधिकारी
उत्तर प्रदेश प्रदूषण
नियंत्रण बोर्ड मथुरा।

विषयः प्रदूषण पर्यावरण विवरण वर्ष 2022–23।

मान्यवर,

कृपया हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड मथुरा की संग्लित पर्यावरण विवरण वर्ष 2022-23 मथुरा संस्थापन का अवलोकन करें।

अनुरोध है कि पावती प्रदान करें।

धन्यवाद।

Received Harsh 18/4/23

भवदीय

भारत भूषण
मुख्य संस्थापन प्रबन्धक
मथुरा संस्थापन

भारत भूषण
Bharat Bhushan
मुख्य टर्मिनल प्रबंधक
Chief Terminal Manager
मथुरा, टर्मिनल
Mathura, Terminal

ANNEXURE

ENVIRONMENTAL STATEMENT
FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

Name and address of the owner/ occupier of the industry operation or process. - *Hindustan Petroleum Corp. Ltd. D-2, UPSIDC Industrial Area, Site-B Opp. Mathura Refinery-281005 (U.P.) Mathura*

Industry category
Primary-(STC Code)
Secondary- (STC Code)

Production Capacity - *As per Annexure 1 Attached Below*
Year of establishment - *1992*
Date of the last environmental statement submitted. - *04/05/2022*

PART B

Water and Raw Material Consumption:

Water consumption in m^3/d

Process : *NIL*
Cooling : *NIL*
Domestic : *3.0KL PER DAY*

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
	(1)	(2)
As per Annexure-1	NIL	NIL

Raw material consumption

Name of raw Materials	Name of products	Consumption of raw material per unit During the previous financial year	During the current financial year
As per Annexure - I	*As per Annexure - I*	*Annexure - I*	*Annexure - I*

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment/ unit of output.
(Parameter as specified in the consent issued)

Pollution	Quantity of pollutants Discharged (mass/ day)	Concentration of pollutants in discharges (mass/ volume)	Percentage of variation from prescribed standards with reasons
(a) Water	*Ref. test report*	*Ref. test report*	*NIL*
(b) Air	*Ref. test report*	*Ref. test repot*	*NIL*

PART D

Hazardous Wastes
(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	*NIL*	*NIL*
(b) From pollution control facilities	*NIL*	*NIL*

PART E

Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	*NIL*	*NIL*
(b) From pollution control facility	*NIL*	*NIL*
(2) (1) Quantity recycled or re-utilized within the unit	*NIL*	
- Sold		
- Disposed		

PART F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

We have approval for disposing of 5000kg per year of Oil Shidge from UPPCB vide authorization no 172864/UPPCB/ Mathura (UPPCBRO)/ CTO/both/ Mathura/2022 valid till 31-12-2023

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

PART H

Additional measures/investment proposal for environmental protection including abatement of pollution.

PART I

Any other particulars for improving the quality of the environment.

--Not Applicable--

ANNEXURE-1

NAME OF PRODUCTS AND RAW MATERIALS:

Total tankage facility of depot is 56743.00 KL of Class A, Class B, Class C product. The terminal presently has 23 tanks of different types viz. IFRV, FRV CRV, U/G and A/G. Terminal has Two Water Storage tanks of Capacity 4160 KL each.

Tank Details:

Sr. No.	Tank No.	Product	Capacity(KL)
1	1	ETHANOL	2748
2	2	MS	2748
3	3	HSD	8255.31
4	4	HSD	8044.76
5	5	HSD	3016
6	6	LDO	3000
7	7	HSD	8301
8	8	ETHANOL	180
9	9	HSD	90
10	10	MS	90
11	14	ETHANOL	180
12	15	FO	70
13	16	ETHANOL	70
14	17	SKO	1000
15	19	HSD	1000
16	20	MS	1000
17	21	ETHANOL	70
18	22	MS	70
19	23	FO	5000
20	24	MS	5000
21	25	MS	4600
22	26	SKO	1000
23	27	SUMP TANK	20
24	28	SUMP TANK	20
25	30	ETHANOL	180
26	31	LDO	990

NAKSHATRA ENVIRO SERVICES

Plot No. 46, Solitaire Industrial Park, Phase I, Dahmi Kalan, Bagru (Ext.), Jaipur - 303007
Website : www.nakshatraenviro.in I M.: 9413666777, 8003896245
E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

TC-7334

Recognized by Ministry of Environment, Forest and Climate Change, Government of India
ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Certified Laboratory

ULR No.: TC733423000000023F — Date: 14/02/2023

Sample ID: NES230210003

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mathura Installation
Address	Plot No. D-2, U.P.S.I.D.C. Industrial Area, Site – B, Near Mathura Refinery, District – Mathura (Uttar Pradesh – IN)
Industrial Activity	Petroleum Products Storage & Distribution

SAMPLE IDENTIFICATION DETAILS

Sampling Location	Near Administrative Office
Date of Sampling	08/02/2023
Ambient Temperature	Max. 25°C & Min. 10°C
Relative Humidity	46%
Weather Conditions	Clear Sky
Period of Testing	10/02/2023 to 14/02/2023

TEST RESULTS

Sl. No.	Parameters	Values Found	Standards	Unit	Protocol
1.	Suspended Particulate Matter (SPM)	273.65	600	$\mu g/m^3$	IS 5182 (P-04):1999, RA 2005
2.	Respirable Suspended Particulate Matter (PM_{10})	75.54	100	$\mu g/m^3$	IS 5182 (P-23):2006, RA 2017
3.	Fine Particulate Matter ($PM_{2.5}$)	30.16	60	$\mu g/m^3$	IS 5182 (P-24):2019
4.	Sulphur dioxide (SO_2)	9.11	80	$\mu g/m^3$	IS 5182 (P-02):2001, RA 2017
5.	Oxides of Nitrogen (NO_X)	28.31	80	$\mu g/m^3$	IS 5182 (P-06):2006, RA 2017
6.	Carbon Monoxide (CO)	0.65	2.00	mg/m^3	IS 5182 (P-10):1999, RA 2019

Note: **BDL – Below Detection Limit; NAAQS – National Ambient Air Quality Standards**

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- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
- Samples will be destroyed after 15 days from the date of issuing of analysis of report unless otherwise specified.

(Saurabh Sharma)
Review By

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

NAKSHATRA ENVIRO SERVICES

Plot No. 46, Solitaire Industrial Park, Phase I, Dahmi Kalan, Bagru (Ext.), Jaipur - 303007
Website : www.nakshatraenviro.in I M.: 9413666777, 8003896245
E-mail : neslab2004@gmail.com, nakshatraenviro@gmail.com

TC-7334

Recognized by Ministry of Environment, Forest and Climate Change, Government of India
ISO 9001 : 2015, ISO 14001 : 2015 & ISO 45001 : 2018 Certified Laboratory

Date: 14/02/2023

ULR No.: TC733423000000024F

Sample ID: NES230210004

TEST CERTIFICATE
AMBIENT AIR QUALITY MONITORING

Issued to	M/s. Hindustan Petroleum Corporation Limited Mathura Installation
Address	Plot No. D-2, U.P.S.I.D.C. Industrial Area, Site – B, Near Mathura Refinery, District – Mathura (Uttar Pradesh – IN)
Industrial Activity	Petroleum Products Storage & Distribution

SAMPLE IDENTIFICATION DETAILS

Sampling Location	Near Lube Stores
Date of Sampling	08/02/2023
Ambient Temperature	Max. 25°C & Min. 10°C
Relative Humidity	46%
Weather Conditions	Clear Sky
Period of Testing	10/02/2023 to 14/02/2023

TEST RESULTS

Sl. No.	Parameters	Values Found	Standards	Unit	Protocol
1.	Suspended Particulate Matter (SPM)	268.61	600	$\mu g/m^3$	IS 5182 (P-04):1999, RA 2005
2.	Respirable Suspended Particulate Matter (PM_{10})	71.24	100	$\mu g/m^3$	IS 5182 (P-23):2006, RA 2017
3.	Fine Particulate Matter ($PM_{2.5}$)	27.61	60	$\mu g/m^3$	IS 5182 (P-24):2019
4.	Sulphur dioxide (SO_2)	8.92	80	$\mu g/m^3$	IS 5182 (P-02):2001, RA 2017
5.	Oxides of Nitrogen (NO_X)	27.15	80	$\mu g/m^3$	IS 5182 (P-06):2006, RA 2017
6.	Carbon Monoxide (CO)	0.62	2.00	mg/m^3	IS 5182 (P-10):1999, RA 2019

Note: **BDL – Below Detection Limit; NAAQS – National Ambient Air Quality Standards**

- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without special permission in writing.
- Total liability of this laboratory is limited to the invoice amount.
- The results enlisted refer only to the above sample and applicable parameters endorsement of products is neither inferred nor implied.
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(Saurabh Sharma)
Review By

NAKSHATRA ENVIRO SERVICES JAIPUR Seal

(Jag Mohan Sharma)
Authorized Signatory

*** END OF REPORT ***

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन :0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/01

दिनाँक:07-06-2023

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
जे – 1, ज्ञान सरोवर कालोनी,
रामघाट रोड, अलीगढ़, उ.प्र.

विषय:-वित्तीय वर्ष 2022 – 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ:- (1) 168834/UPPCB/अलीगढ़ (UPPCBRO)/CTO/वायु प्रदूषण/हाथरस/2022;
दिनॉक: 25.11.2022 एवं
(2) 168836/UPPCB/अलीगढ़ (UPPCBRO)/CTO/जल प्रदूषण/हाथरस/2022;
दिनॉक: 25.11.2022

महोदय,

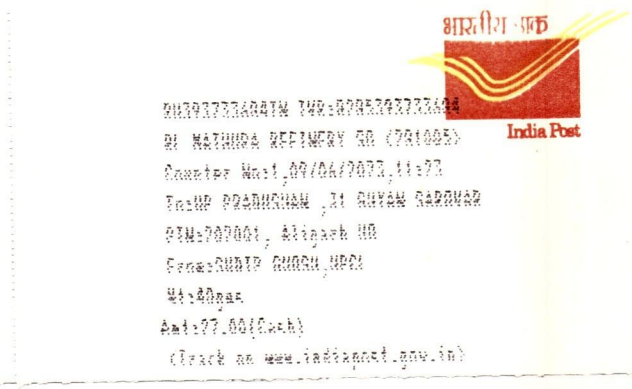
कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस. वी. स्टेशन- 5 (गाँव-पचावरी, तहसील-सादाबाद, जिला – हाथरस) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

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Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

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आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/01 **दिनाँक:07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
जे – 1, ज्ञान सरोवर कालोनी,
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विषय:-वित्तीय वर्ष 2022 – 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ:- (1) 168834/UPPCB/अलीगढ़ (UPPCBRO)/CTO/वायु प्रदूषण/हाथरस/2022;
दिनॉक: 25.11.2022 एवं
(2) 168836/UPPCB/अलीगढ़ (UPPCBRO)/CTO/जल प्रदूषण/हाथरस/2022;
दिनॉक: 25.11.2022

महोदय,

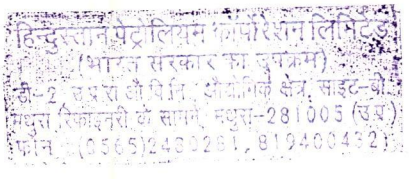
कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस. वी. स्टेशन- 5 (गाँव-पचावरी, तहसील-सादाबाद, जिला – हाथरस) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा



FORM - V
(See rule 14)
ENVIRONMENTAL STATEMENT FOR FINANCIAL HALF YEAR ENDING 31ST MARCH 2023

PART-A

1. Name and address of the owner/ Occupier of the industry Operation or process. : Hindustan Petroleum Corporation Limited
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P)

2. Industry category Primary-(STC Code)
Secondary- (STC Code) : (1) 168834/UPPCB/ALIGARH (UPPCBRO)/CTO/AIR/ HATRAS/2022; Date: 25.11.2022 And
(2) 168836/UPPCB/ALIGARH (UPPCBRO)/CTO/WATER /HATRAS/2022;Date: 25.11.2022

3. Production capacity – Units. : Passing of Petroleum Products 3.17 MMTPA

4. Year of establishment : Nov'2015

5. Date of the last environmental Statement submitted. : 04.10.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a. Process : 0

b. Cooling : 0.3 (Spraying, Floor Washing)

c. Domestic : 0.4

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products through underground pipeline	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	**Quantity of Pollutants discharged**	**Concentration of Pollutants in discharges (Mass/ Volume)**	**Percentage of variation from prescribed standards with reasons.**
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. Air	NIL	PM_{10} : 55.35 µg / m^3 $PM_{2.5}$: 24.16 µg / m^3 SO_2 : 11.54 µg / m^3 NO_2 : 23.52 µg / m^3 CO : Below 0.05 mg / m^3 Total Hydrocarbon as CH_4 : Not Detected. VOC: Not Detected.	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	**Total Quantity (Kg)**	
	During the previous financial year	**During the current financial year**
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	**Total Quantity (Kg)**	
	During the previous financial year	**During the current financial year**
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Hathras during the financial half-year 2022 – 2023 ending 31st March 2023.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

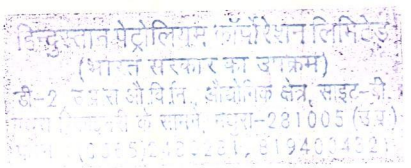
PART – I

Any other particulars for improving the quality of the environment: **NA**

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : **Sudip Ghosh**
Designation : **DGM – Pipeline Station**
Address : **Hindustan Petroleum Corp. Ltd.**
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P).



FORM VIII

[see rule 10 (2)(ii)]

FORM FOR FILING RETURNS BY RECYCLERS OF USED BATTERIES

1.	Name and address of the bulk consumer	Hindustan Petroleum Corporation Limited Sectionalizing Valve Station No. 5, Village – Pachawari, Tehsil – Sadabad, District – Hathras, State- Uttar Pradesh
2.	Name of the Authorized person and full address with telephone and fax number	Mr. Sudip Ghosh, DGM –Pipeline Station, Ramanmandi Rewari Kanpur Pipeline, Mathura depot, Opposite IOCL refinery, Mathura-281005
3.	Name of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during April 2022- March 2023 Category: i. Automotive a. Four wheeler b. Two wheeler i. Industrial a. UPS b. Motive power c. Stand-By ii. Others	i. No. of batteries - NIL. ii. Approximate weight (in Metric Tonnes) - NIL
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.	NIL

Sudip Ghosh

Place- HPCL RKPL Mathura

Signature of the Authorized Person

Date- 07.06.2023

Sudip Ghosh

DGM –Pipeline Station

RRKPL, MATHURA

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/005/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.54	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.52	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.35	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.16	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.35	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/004/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.73	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.58	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.21	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.84	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.54	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन : 0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/03 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
14, सेक्टर – 3 बी,
आवास विकास, सिकंदरा योजना
आगरा, उ.प्र.

विषय:- वित्तीय वर्ष 2022 – 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) जमा करने हेतु ।

संदर्भ:- (1) 150975/UPPCB/आगरा(UPPCBRO)/CTO- वायु प्रदूषण/आगरा/2022; दिनॉक:09.03.2022 एवं
(2) 150666/UPPCB/ आगरा(UPPCBRO)/CTO- जल प्रदूषण/आगरा/2022; दिनॉक:09.03.2022

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइपलाइन (जिला – आगरा) की पर्यावरण विवरण वित्तीय वर्ष 2022 - 23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

8/6/23
क्षेत्रीय कार्यालय
उ. प्र. प्रदूषण नियंत्रण बोर्ड
14, सेक्टर-3 बी
आवास विकास सिकंदरा
आगरा-282007

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट-बी
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2480011, 8194004321

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी – कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन : 0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/03 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
14, सेक्टर – 3 बी,
आवास विकास, सिकंदरा योजना
आगरा, उ.प्र.

विषय:- वित्तीय वर्ष 2022 – 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) जमा करने हेतु ।

संदर्भ:- (1) 150975/UPPCB/आगरा(UPPCBRO)/CTO- वायु प्रदूषण/आगरा/2022; दिनॉक:09.03.2022 एवं
(2) 150666/UPPCB/ आगरा(UPPCBRO)/CTO- जल प्रदूषण/आगरा/2022; दिनॉक:09.03.2022

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइपलाइन (जिला – आगरा) की पर्यावरण विवरण वित्तीय वर्ष 2022 - 23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा

FORM - V
(See rule 14)
ENVIRONMENTAL STATEMENT FOR FINANCIAL HALF YEAR ENDING 31ST MARCH 2023

PART-A

1. Name and address of the owner/ Occupier of the industry Operation or process. : Hindustan Petroleum Corporation Limited
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P)

2. Industry category Primary-(STC Code)
Secondary- (STC Code) :
(1)150975/UPPCB/Agra(UPPCBRO)/CTO/air/AGRA/2022; Date: 09/03/2022 and
(2) 150666/UPPCB/Agra(UPPCBRO)/CTO/water/AGRA/2022; Date: 09/03/2022

3. Production capacity – Units. : Passing of Petroleum Products 3.17 MMTPA

4. Year of establishment : Nov'2015

5. Date of the last environmental Statement submitted. : 10.10.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a. Process : 0

b. Cooling : 0.3 (Spraying, Floor Washing)

c. Domestic : 0.4

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products through underground pipeline	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	**Quantity of Pollutants discharged**	**Concentration of Pollutants in discharges (Mass/ Volume)**	**Percentage of variation from prescribed standards with reasons.**
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. Air	NIL	PM_{10} : 52.64 µg / m^3 $PM_{2.5}$: 23.52 µg / m^3 SO_2 : 10.43 µg / m^3 NO_2 : 25.52 µg / m^3 CO : 0.05 mg / m^3 Total Hydrocarbon as CH_4 : Not Detected VOC: 0.05 µg / m^3	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	**Total Quantity (Kg)**	
	During the previous financial year	**During the current financial year**
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	**Total Quantity (Kg)**	
	During the previous financial year	**During the current financial year**
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Agra during the financial half-year 2022 – 2023 ending 31st March 2023.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment: **NA**

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : **Sudip Ghosh**
Designation : **DGM – Pipeline Station**
Address : **Hindustan Petroleum Corp. Ltd.**
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P).

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/002/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Building Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.43	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.31	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.64	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.52	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.35	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/001/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.38	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.15	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.34	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.63	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.46	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.82	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन :0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/02 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
मकान नवं – 3/5बी, सेक्टर – 3,
सोहाग नगर, फ़िरोज़ाबाद, उ.प्र.

विषय:-वित्तीय वर्ष 2022– 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ(1) 135900/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/वायु प्रदूषण/ फ़िरोज़ाबाद/2021; दिनॉक:03.11.2021 एवं
(2) 135895/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/जल प्रदूषण/ फ़िरोज़ाबाद/2021; दिनॉक:03.11.2021

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस.वी स्टेशन-6 (गाँव-एटा, तहसील-टूण्डला, जिला – फिरोजाबाद) एवं एस.वी स्टेशन- 7 (गाँव- हुसैनपुर गढ़िया, तहसील-जसराना, जिला – फिरोजाबाद) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

Read. Yadav 08/6/2023

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन :0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/02 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
मकान नवं – 3/5बी, सेक्टर – 3,
सोहाग नगर, फ़िरोज़ाबाद, उ.प्र.

विषय:-वित्तीय वर्ष 2022– 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ(1) 135900/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/वायु प्रदूषण/ फ़िरोज़ाबाद/2021;
दिनॉक:03.11.2021 एवं
(2) 135895/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/जल प्रदूषण/ फ़िरोज़ाबाद/2021;
दिनॉक:03.11.2021

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन एस.वी स्टेशन-6 (गाँव-एटा, तहसील-टूण्डला, जिला – फिरोजाबाद) एवं एस.वी स्टेशन- 7 (गाँव- हुसैनपुर गढ़िया, तहसील-जसराना, जिला – फिरोजाबाद) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा



FORM - V
(See rule 14)
ENVIRONMENTAL STATEMENT FOR FINANCIAL HALF YEAR ENDING 31ST MARCH 2023

PART-A

1. Name and address of the owner/ Occupier of the industry Operation or process. : Hindustan Petroleum Corporation Limited
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P)

2. Industry category Primary-(STC Code)
Secondary- (STC Code) :

(1)135900/UPPCB/Firozabad(UPPCBRO)/CTO/air/FIROZABAD/2021; Date: 03/11/2021 and
(2) 135895/UPPCB/Firozabad(UPPCBRO)/CTO/water/FIROZABAD/2021; Date: 03/11/2021

3. Production capacity – Units. : Passing of Petroleum Products 3.17 MMTPA

4. Year of establishment : Nov'2015

5. Date of the last environmental Statement submitted. : 10.10.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day
   a. Process : 0
   b. Cooling : 0.3 (Spraying, Floor Washing)
   c. Domestic : 0.4

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products through underground pipeline	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. Air	NIL	PM_{10} : 53.82 µg / m^3 $PM_{2.5}$: 25.10 µg / m^3 SO_2 : 10.38 µg / m^3 NO_2 : 24.16 µg / m^3 CO : Below 0.05 mg / m^3 Total Hydrocarbon as CH_4 : Not Detected. VOC: Not Detected.	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Firozabad during the financial half-year 2022 – 2023 ending 31st March 2023.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment: **NA**

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : **Sudip Ghosh**
Designation : **DGM – Pipeline Station**
Address : **Hindustan Petroleum Corp. Ltd.**
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P).

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/44/250323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023** Completed On : **31/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.38	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.16	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.82	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.10	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.25	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.84	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HECS ENVIRO CARE SYSTEMS (P) Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/43/250323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023** Completed On :**31/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.58	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.41	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.18	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.62	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.65	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.05	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/002/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Building Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.43	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.31	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.64	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.52	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.35	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/001/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.38	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.15	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.34	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.63	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.46	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.82	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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FORM VIII

[see rule 10 (2)(ii)]

FORM FOR FILING RETURNS BY RECYCLERS OF USED BATTERIES

1.	Name and address of the bulk consumer	Hindustan Petroleum Corporation Limited Sectionalizing Valve Station No. 7, Village – Hussainpur Garhiya, Tehsil – Jashrana, District – Firozabad State- Uttar Pradesh
2.	Name of the Authorized person and full address with telephone and fax number	Mr. Sudip Ghosh, DGM –Pipeline Station, Ramanmandi Rewari Kanpur Pipeline, Mathura depot, Opposite IOCL refinery, Mathura-281005
3.	Name of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during April 2022- March 2023 Category: i. Automotive a. Four wheeler b. Two wheeler i. Industrial a. UPS b. Motive power c. Stand-By ii. Others	i. No. of batteries - NIL. ii. Approximate weight (in Metric Tonnes) - NIL
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.	NIL

Sudip Ghosh

Place- HPCL RKPL Mathura

Date- 07.06.2023

Signature of the Authorized Person

Sudip Ghosh

DGM –Pipeline Station

RRKPL, MATHURA

FORM VIII

[see rule 10 (2)(ii)]

FORM FOR FILING RETURNS BY RECYCLERS OF USED BATTERIES

1.	Name and address of the bulk consumer	Hindustan Petroleum Corporation Limited Sectionalizing Valve Station No. 6, Village – Eta, Tehsil – Tundla, District – Firozabad State- Uttar Pradesh
2.	Name of the Authorized person and full address with telephone and fax number	Mr. Sudip Ghosh, DGM –Pipeline Station, Ramanmandi Rewari Kanpur Pipeline, Mathura depot, Opposite IOCL refinery, Mathura-281005
3.	Name of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during April 2022- March 2023 Category: i. Automotive a. Four wheeler b. Two wheeler i. Industrial a. UPS b. Motive power c. Stand-By ii. Others	i. No. of batteries - NIL. ii. Approximate weight (in Metric Tonnes) - NIL
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.	NIL

Sudip Ghosh

Place- HPCL RKPL Mathura

Date- 07.06.2023

Signature of the Authorized Person

Sudip Ghosh

DGM –Pipeline Station

RRKPL, MATHURA

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2, उ.प्र.रा.औ.वि.नि., औद्योगिक क्षेत्र, साइट-बी,
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2480281, 8194004321

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2, उ.प्र.रा.औ.वि.नि., औद्योगिक क्षेत्र, साइट-बी,
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2480281, 8194004321

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020

रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन

Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station

CIN:L23201MH1952GOI008858

डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन :0565-2480011, 8194004321

D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/04 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
मकान न. – 3/5बी, सेक्टर – 3,
सुहाग नगर, फ़िरोज़ाबाद, उ.प्र.

विषय:-वित्तीय वर्ष 2022– 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ(1) 135899/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/वायु प्रदूषण/ मैनपुरी/2021;
दिनॉक: 03.11.2021 एवं
(2) 135896/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/जल प्रदूषण/ मैनपुरी/2021;
दिनॉक: 03.11.2021

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन आई.पी.स्टेशन (गाँव-सय्यदपुर प्राण, तहसील-करहल जिला – मैनपुरी) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

Read. Byadow
08/6/23

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2 उप्रराऔविनि औद्योगिक क्षेत्र, साइट-बी
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुंबई - 400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020
रामांमण्डी रेवाड़ी - कानपुर पाइप लाइन, मथुरा रिसीविंग स्टेशन
Ramanmandi Rewari - Kanpur Pipeline, Mathura Receiving Station
CIN:L23201MH1952GOI008858
डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट–बी, निकट मथुरा रिफाइनरी, मथुरा-281005 (उ.प्र.) फोन :0565-2480011, 8194004321
D-2, U.P.S.I.D.C., INDUSTRIAL AREA, SITE-B, NEAR MATHURA REFINERY, MATHURA-281005 (U.P.) TEL. : 0565-2480011, 8194004321

आर.के.पी.एल./ओ.पी.एन./ अ.ब./23-24/04 **दिनाँक: 07-06-2023**

उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड
मकान न. – 3/5बी, सेक्टर – 3,
सुहाग नगर, फ़िरोज़ाबाद, उ.प्र.

विषय:-वित्तीय वर्ष 2022– 23 का अर्ध वार्षिक पर्यावरण विवरण (Environmental Statement) एवं बैटरी रिटर्न (Battery Return) जमा करने हेतु ।

संदर्भ(1) 135899/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/वायु प्रदूषण/ मैनपुरी/2021;
दिनॉक: 03.11.2021 एवं
(2) 135896/UPPCB/फ़िरोज़ाबाद(UPPCBRO)/CTO/जल प्रदूषण/ मैनपुरी/2021;
दिनॉक: 03.11.2021

महोदय,

कृपया उपरोक्त विषयक रेवाडी कानपुर पाइप लाइन आई.पी.स्टेशन (गाँव-सय्यदपुर प्राण, तहसील-करहल जिला – मैनपुरी) की पर्यावरण विवरण एवं बैटरी रिटर्न वित्तीय वर्ष 2022-23 (31 मार्च 2023 को समाप्त वर्ष) प्राप्त करने का कष्ट करें ।

धन्यवाद,

भवदीय

Sudip Ghosh

(सुदीप घोष)
डी.जी.एम.-पाइपलाइन स्टेशन
रेवाडी कानपुर पाइपलाइन, मथुरा

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2, उ.प्र.रा.औ.वि.नि. औद्योगिक क्षेत्र, साइट-बी,
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2480281, 8194004321

FORM - V
(See rule 14)
ENVIRONMENTAL STATEMENT FOR FINANCIAL HALF YEAR ENDING 31ST MARCH 2023

PART-A

1. Name and address of the owner/ Occupier of the industry Operation or process. : Hindustan Petroleum Corporation Limited
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P)

2. Industry category Primary-(STC Code)
Secondary- (STC Code) :

(1)135899/UPPCB/Firozabad(UPPCBRO)/CTO/air/MAINPURI/2021; Date: 03/11/2021and
(2) 135896/UPPCB/Firozabad(UPPCBRO)/CTO/water/MAINPURI/2021;Date: 03/11/2021

3. Production capacity – Units. : Passing of Petroleum Products 3.17 MMTPA

4. Year of establishment : Nov'2015

5. Date of the last environmental Statement submitted. : 10.10.2022

PART –B

Water & Raw Material Consumption

1. Water consumption in KL/Day

a. Process : 0

b. Cooling : 0.3 (Spraying, Floor Washing)

c. Domestic : 0.4

Name of Products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
Transportation of Petroleum Products through underground pipeline	NIL	NIL

2. Raw material consumption

Name of raw materials *	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
NA	*NA*	*NA*	*NA*

* Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged	Concentration of Pollutants in discharges (Mass/ Volume)	Percentage of variation from prescribed standards with reasons.
1. **Water:** Domestic waste water and Floor wash only.	NIL	NIL	NIL
2. Air	NIL	PM_{10} : 50.38 µg / m^3 $PM_{2.5}$: 24.32 µg / m^3 SO_2 : 11.26 µg / m^3 NO_2 : 20.41 µg / m^3 CO : Below 0.05 µg / m^3 Total Hydrocarbon as CH_4 : Not Detected VOC: Not Detected.	Ambient Air test parameter values are within prescribed limits.

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling) Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NIL	NIL
b. From pollution control facility	NIL	NIL

PART-E

Solid Waste	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From Process	NA	NA
b. From pollution control facility.	NA	NA
c. 1. Quantity recycled or reutilized within the unit.	NA	NA
2. Sold	NA	NA
3. Disposed	NA	NA

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes :

We confirm that we have not generated any hazardous waste or solid waste in the district of Mainpuri during the financial year 2022 – 2023 ending 31st March 2023.

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production. : **NA**

PART – H

Additional measures/ investment proposal for environmental protection, abatement of pollution, prevention of pollution: **NA**

PART – I

Any other particulars for improving the quality of the environment: **NA**

(Signature of a person carrying out an Industry operation or Process)

Sudip Ghosh

Name : **Sudip Ghosh**
Designation : **DGM – Pipeline Station**
Address : **Hindustan Petroleum Corp. Ltd.**
Rewari Kanpur Pipeline,
Mathura Receiving Station.
D-2, U.P.S.I.D.C. Industrial Area,
Site – B, Opp Mathura Refinery,
Mathura 281005 (U.P).

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2 उप्रसिडी लि. औद्योगिक क्षेत्र, साइट-बी,
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2430281, 8194004321

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/002/260323**
Report Date : **30/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023** Completed On : **30/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.26	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.41	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.38	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.32	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.63	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.25	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

1. The report in full or part shall not be used for any promotional or publicity purpose without written consent by HECS organization 2. Samples are not drawn by HECS unless or otherwise mentioned 3. Unless specifically requested by customer the test items will not be retained more than 15 days from the date of issue of test report. 4. Under no circumstances lab accepts any liability or loss / damage caused by use or misuse of test report after invoicing or issue of test report. 5. The test results relate only to the test items. 6. HECS will not be responsible for the information shared by clients related to samples tested.

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/001/260323**
Report Date : **30/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023** Completed On :**30/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.46	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.51	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.20	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.16	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.83	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.44	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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FORM VIII

[see rule 10 (2)(ii)]

FORM FOR FILING RETURNS BY RECYCLERS OF USED BATTERIES

1.	Name and address of the bulk consumer	Hindustan Petroleum Corporation Limited, Ramanmandi Rewari Kanpur Pipeline, Intermediate Pigging station, Village- Sayyadpur Pran, Tehsil- Karhal, District- Mainpuri State- Uttar Pradesh
2.	Name of the Authorized person and full address with telephone and fax number	Mr. Sudip Ghosh, DGM – Pipeline Station, Ramanmandi Rewari Kanpur Pipeline, Mathura depot, Opposite IOCL refinery, Mathura-281005
3.	Name of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency during April 2022- March 2023 Category: i. Automotive a. Four wheeler b. Two wheeler i. Industrial a. UPS b. Motive power c. Stand-By ii. Others	i. No. of batteries - NIL. ii. Approximate weight (in Metric Tonnes) - NIL
4.	Number of used batteries of categories mentioned in Sl. No. 3 and Tonnage of scrap sent to manufacturer / dealer / importer / registered recycler / or any other agency to whom the used batteries scrap was sent.	NIL

Sudip Ghosh

Place- HPCL RKPL Mathura

Date- 07.06.2023

Signature of the Authorized Person

Sudip Ghosh

DGM –Pipeline Station

RRKPL, MATHURA

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम)
डी-2, उद्योग औ वि. औद्योगिक क्षेत्र, साइट-बी,
मथुरा रिफाइनरी के सामने, मथुरा-281005 (उ.प्र.)
फोन : (0565)2480281, 8194001321

Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/014/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near MCC Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.84	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.68	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	51.71	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.70	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.59	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.50	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/015/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room F.S**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.49	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.64	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	49.23	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.10	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.48	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.06	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/016/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room B.S**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.59	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.63	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	48.16	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.04	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.81	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.33	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/012/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	6.81	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	170.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	44.09	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	130.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	74.23	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	14.58	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	338.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	40.19	IS 3025(Part 24):1986	200	400
15	Fluoride	mg/l	0.24	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	5.31	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/WT/012/231222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O.P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No : **HECSL/WT/012/231222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable	Permissible
	P.P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P.P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O.P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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Authorized Signatory
SIVAPRAKASAM. M

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/012/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot,** Report Date : **31/12/2022**
Industrial Area, Site-B, Opposite Mathura Refinery, Mathura

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
35	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
36	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
37	Barium as Ba	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
38	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
39	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
40	Beta Emitters	Bq/l	BLQ(LOQ:0.09)		1.0	No Relaxation
41	Chloramines	mg/l	BLQ(LOQ:0.1)		4.0	No Relaxation
42	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
43	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
44	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No : **HECSL/WT/012/231222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
45	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
46	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Technical Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/MB/005/261222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **28/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -26/12/2022**
Analysis Commenced On : **27/12/2022** Completed On : **28/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable	Permissible
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab [illegible]

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/WT/013/231222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.83	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	400.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	88.17	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	280.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	296.93	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	43.74	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	904.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	108.6	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.36	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	9.48	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.057	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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SIVAPRAKASH M
Lab Executive

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/013/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200 8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Lab Manager

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TEST REPORT

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Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ 0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ 0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ 0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/013/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022** Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable	Permissible
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
35	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
36	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
37	Barium as Ba	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
38	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
39	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
40	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
41	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
42	Molybdenum	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
43	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
44	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/WT/013/231222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Analysis Commenced On : **23/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
45	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
46	Polynuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/MB/006/261222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **28/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -26/12/2022**
Analysis Commenced On : **27/12/2022** Completed On : **28/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AN/002/231222**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **31/12/2022**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -23/12/2022**
Instrument Model & Sl.No : **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room Front side	Near MCC Room
1	06-07	63.5	61.8
2	07-08	65.0	62.1
3	08-09	64.7	59.6
4	09-10	64.6	60.4
5	10-11	63.0	60.2
6	11-12	61.1	59.8
7	12-13	64.0	60.2
8	13-14	62.9	58.4
9	14-15	62.9	59.0
10	15-16	61.5	58.0
11	16-17	62.4	58.2
12	17-18	64.2	58.1
13	18-19	62.6	60.6
14	19-20	62.9	57.9
15	20-21	63.1	59.2
16	21-22	60.1	58.7
17	22-23	58.0	55.7
18	23-24	56.8	54.6
19	00-01	54.1	52.4
20	01-02	53.5	53.8
21	02-03	54.9	52.9
22	03-04	53.4	51.9
23	04-05	53.3	51.4
24	05-06	53.0	53.6
	Ld	**63.2**	**59.7**
	Ln	**55.0**	**53.5**
	Ldn	**61.8**	**58.4**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

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Lab [illegible]

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/001/271222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022** Completed On : **02/01/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.36	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.42	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	48.19	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.74	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.43	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.50	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM
Lab Incharge

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/002/271222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022** Completed On : **02/01/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	9.63	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.48	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	46.15	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.70	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.83	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.70	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASH
Lab

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Laboratory Services Division
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/003/271222**
Report Date : **03/01/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022** Completed On : **02/01/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.51	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.34	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	46.19	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.84	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.92	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.18	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/ST/001/271222**
Report Date : **03/01/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **DG 50 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	°C	31.0	IS 11255 (Part-3) 2008	NA
2	Temperature	°C	95.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	14.8	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1198.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.138	IS 11255 (Part-1) 1985	≤ 0.2
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.750	IS 11255 (Part-7) 2005	≤ 4.0 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.120	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.29	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	240.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	60.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	210.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	89.07	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	21.87	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	416.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	39.06	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.21	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	6.3	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l		IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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SIVAPRAKASH
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ;0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gamma HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2.4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ (LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polynecuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/MB/006/271222**
Report Date : **30/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -27/12/2022**
Analysis Commenced On : **28/12/2022**
Completed On : **29/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.18	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	BLQ(LOQ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	260.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	72.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	240.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	79.18	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	19.44	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	459.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	44.20	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.35	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	11.4	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B #	mg/l	BLQ(LOQ;0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0

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TEST REPORT

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Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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Report No. : **HECSL/WT/004/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation

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TEST REPORT

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Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ (LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.037	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

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Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/271222**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -27/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **02/01/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre. NA –Not Applicable.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/MB/096/261222**
Report Date : **27/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **27/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AN/001/261222**
Address of the Client : **Intermediate Pigging Station (IP Station), Salyyadpur Karhal, Mainpuri, Uttar Pradesh** Report Date : **03/01/2023**
Sample Description : **Noise Monitoring(Ambient Noise)**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -26/12/2022**
Instrument Model & Sl.No : **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise Near Control Room
1	06-07	64.1
2	07-08	63.8
3	08-09	61.4
4	09-10	61.6
5	10-11	60.1
6	11-12	61.7
7	12-13	61.0
8	13-14	59.3
9	14-15	59.0
10	15-16	59.4
11	16-17	61.4
12	17-18	59.5
13	18-19	61.0
14	19-20	59.4
15	20-21	60.1
16	21-22	60.0
17	22-23	56.9
18	23-24	57.0
19	00-01	53.1
20	01-02	54.8
21	02-03	53.2
22	03-04	53.4
23	04-05	50.9
24	05-06	50.4
	Ld	**62.0**
	Ln	**54.2**
	Ldn	**60.6**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Saiyyadpur Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AN/002/261222**
Report Date : **03/01/2023**

Sample Description : **Noise Monitoring(DG Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -26/12/2022**

Instrument Model & Sl.No: **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/2023**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -40 KVA Door Open	92.9	75 Max
2	DG-40 KVA Door Close (1 m distance from Acoustic room)	73.8	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/006/241222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022** Completed On : **30/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	14.39	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.06	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.78	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	26.04	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	13.67	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.18	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/007/241222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022** Completed On : **30/12/2022**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.57	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.39	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	47.61	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.38	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.68	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.29	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/008/241222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near building backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022** Completed On : **30/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	8.64	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	19.75	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	44.29	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.84	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.75	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.67	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/003/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	6.95	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ: 0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	160.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	36.07	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	130.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	84.12	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ: 0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	17.01	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	361.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	44.16	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.24	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	7.48	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ: 0.1)	IS:3025 (Part - 57) 2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0

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TEST REPORT

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Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/003/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ 0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/003/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	O.P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P.P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P.P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O.P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P.P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/003/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ 0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ 0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ 0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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Authorized Signatory

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Report No. : **HECSL/WT/003/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/MB/001/241222**
Report Date : **27/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **27/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/004/241222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.71	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ ;1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	270.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	60.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	240.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	79.18	4500 Cl -— B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ ;0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	29.16	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	459.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	58.02	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	BLQ(LOQ ;0.2)	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	11.4	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.039	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ ;0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0

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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29) 1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation

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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2.4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.046	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ :0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation

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Sample Description : **WATER**
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Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **24/12/2022**
Completed On : **30/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polynuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ 0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

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TEST REPORT

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Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/MB/002/241222**
Report Date : **27/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **27/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**

Report No. : **HECSL/AN/004/241222**
Report Date : **27/12/2022**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/12/2022 -24/12/2022**

Instrument Model & Sl.No : **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room Front	Near MCC Room
1	06-07	66.9	65.1
2	07-08	68.5	65.4
3	08-09	68.2	63.0
4	09-10	68.0	63.8
5	10-11	66.4	63.6
6	11-12	64.3	63.2
7	12-13	67.4	63.6
8	13-14	66.2	61.7
9	14-15	66.2	62.4
10	15-16	64.7	61.2
11	16-17	65.7	61.4
12	17-18	67.6	61.3
13	18-19	65.9	63.9
14	19-20	66.2	61.0
15	20-21	66.5	62.6
16	21-22	63.3	62.0
17	22-23	61.0	58.7
18	23-24	59.7	57.7
19	00-01	57.0	55.2
20	01-02	56.5	57.0
21	02-03	57.8	55.8
22	03-04	56.4	54.7
23	04-05	56.3	54.2
24	05-06	55.9	56.7
	Ld	**66.6**	**63.0**
	Ln	**57.9**	**56.5**
	Ldn	**65.1**	**61.7**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

Authorized Signatory

SIVAPRAKA[illegible]
Lab M[illegible]

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/014/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On : **31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.83	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.62	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	56.20	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.18	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.97	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Authorized Signatory

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/015/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location :**control room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On :**31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.43	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	21.30	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.81	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.30	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.72	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.83	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/016/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Building back side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On : **31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.08	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.44	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.18	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.52	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.24	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.32	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/016/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.21	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	230.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	60.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	200.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	94.02	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	19.44	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	429.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	49.02	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.34	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	8.7	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/016/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O.P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/016/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/016/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)		4.0	No Relaxation
41	Molybdenum #	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/29	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/29	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/29	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/29	0.1	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/016/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/015/261222**
Report Date : **28/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **28/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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Report No. : **HECSL/WT/017/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.89	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	300.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	72.14	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	98.97	4500 Cl - - - B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	29.16	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	495.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	46.12	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.36	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	11.4	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.034	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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Sample Description : **WATER**
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Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O.P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2.4-D	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	0.042	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum #	mg/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ:0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
45	Polynuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SWAMINATHAN M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSI./MB/095/261222**
Report Date : **27/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **26/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **27/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AN/003/261222**
Report Date : **27/12/2022**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems Pvt Ltd**
Sampling/received Date : **24/12/2022 -24/12/2022**
Instrument Model & Sl.No : **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/2023**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room	Near Front Gate
1	06-07	59.4	51.4
2	07-08	62.4	57.0
3	08-09	60.1	54.2
4	09-10	59.1	53.1
5	10-11	54.5	50.5
6	11-12	56.2	49.2
7	12-13	57.6	49.3
8	13-14	55.4	51.3
9	14-15	57.3	50.0
10	15-16	55.9	50.1
11	16-17	56.9	48.7
12	17-18	57.0	49.9
13	18-19	56.4	47.3
14	19-20	55.4	48.9
15	20-21	56.8	51.1
16	21-22	56.8	47.5
17	22-23	53.8	44.9
18	23-24	51.0	44.6
19	00-01	49.4	42.1
20	01-02	51.2	40.9
21	02-03	50.3	41.3
22	03-04	49.6	40.9
23	04-05	47.4	39.8
24	05-06	48.6	43.3
	Ld	**60.8**	**62.6**
	Ln	**53.1**	**54.7**
	Ldn	**59.4**	**61.2**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
Iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/43/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On : **31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.27	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	26.58	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.13	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	27.66	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	12.05	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	8.19	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Authorized Signatory

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/44/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On : **31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.44	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.37	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.43	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.76	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.67	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.44	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/45/261222**
Report Date : **31/12/2022**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022** Completed On : **31/12/2022**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.67	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.33	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	48.57	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.30	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.54	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.01	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17).1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.28	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	200.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	52.1	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	170.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	84.12	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	17.01	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	394.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	39.78	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.25	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	9.3	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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Laboratory Services Division
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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2.4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)		4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/093/261222**
Report Date : **28/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **28/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

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Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.81	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	290.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	64.13	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	220.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	98.97	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	31.59	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	478.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	49.11	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.31	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	11.3	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.041	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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S.No.	Parameters	Units	Results	1. Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200 8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)		0.05	No Relaxation
33	Pesticides			HECS-G/INS/SOP/009		
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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SWAPNASAM. M
Lab Manager

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	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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Sampling/received Date : **25/12/2022 -26/12/2022**
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Completed On : **31/12/2022**

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					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)		4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation

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SWAMINATHAN. M
Lab Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/261222**
Report Date : **31/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **26/12/2022**
Completed On : **31/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/094/261222**
Report Date : **28/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/12/2022 -26/12/2022**
Analysis Commenced On : **27/12/2022**
Completed On : **28/12/2022**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems Pvt Ltd**
Sampling/received Date : **25/12/2022 -25/12/2022**
Instrument Model & Sl.No : **LUTRON & Q 641019**
Calibration Validity Period : **24/02/2022 to 23/02/202**

Report No. : **HECSL/AN/011/251222**
Report Date : **28/12/2022**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room	Near Front Gate
1	06-07	58.3	50.3
2	07-08	61.2	55.9
3	08-09	59.0	53.2
4	09-10	58.0	52.1
5	10-11	53.5	49.6
6	11-12	55.1	48.3
7	12-13	56.5	48.4
8	13-14	54.3	50.2
9	14-15	56.2	49.0
10	15-16	54.9	49.2
11	16-17	55.7	47.8
12	17-18	55.8	48.9
13	18-19	55.3	46.4
14	19-20	54.3	48.0
15	20-21	55.6	50.1
16	21-22	55.6	46.6
17	22-23	52.8	44.1
18	23-24	50.0	43.8
19	00-01	48.5	41.2
20	01-02	50.2	40.1
21	02-03	49.4	40.5
22	03-04	48.6	40.1
23	04-05	46.5	39.0
24	05-06	47.6	42.5
	Ld	**59.9**	**59.9**
	Ln	**53.7**	**53.7**
	Ldn	**58.6**	**58.6**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
Iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/001/260323**
Report Date : **30/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023** Completed On :**30/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.46	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.51	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.20	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.16	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.83	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.44	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSI./AA/002/260323**
Report Date : **30/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023** Completed On :**30/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.26	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.41	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.38	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.32	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.63	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.25	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

"""End of Report"""

Verified By

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SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AA/003/260323**
Report Date : **30/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023** Completed On :**30/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.28	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.15	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.71	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	20.83	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.22	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.94	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/ST/001/260323**
Report Date : **03/01/2023**

Sample Description : **DG Stack Emission**
Sample Mark : **DG 50 KVA**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	CPCB Standards
1	Ambient Temperature	° C	33.0	IS 11255 (Part-3) 2008	NA
2	Temperature	° C	106.0	IS 11255 (Part-3) 2008	NA
3	Velocity	m/sec	14.6	IS 11255 (Part-3) 2008	NA
4	Flow rate	Nm^3/hr	1178.0	IS 11255 (Part-3) 2008	NA
5	Particulate Matter	g/Kw-hr	0.147	IS 11255 (Part-1) 1985	≤ 0.2
6	Sulphur Dioxide	g/Kw-hr	BLQ(LOQ 0.01)	IS 11255 (Part-2) 1985	NA
7	Oxides of nitrogen	g/Kw-hr	2.682	IS 11255 (Part-7) 2005	≤ 4.0 (NOx+HC)
8	Carbon monoxide	g/Kw-hr	2.135	IS 13270-1992	≤ 3.5

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, g/kW-hr- Gram per Kilowatt Hour, NA - Not Applicable.

Remarks :-Standards are given as per CPCB notification no. G.S.R.771 (E) dated 11th December, 2013 (Engine Rating less than 0.8 M W (800 KW); The Tested Parameters are found in acceptable Limit.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/260323**
Report Date : **30/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.85	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NT	BLQ(LOQ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	70.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	19.23	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	110.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	17.81	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	5.34	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	226.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	3.24	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	BLQ(LOQ;0.2)	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	1.67	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C) 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/260323**
Report Date : **30/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ;0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**

Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/260323**
Report Date : **30/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ (LOQ;0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/003/260323**
Report Date : **30/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSI./MB/006/260323**
Report Date : **30/12/2022**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/260323**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.63	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ;1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ;0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	230.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	64.12	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	21.78	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ;0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	17.01	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	389.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	35.12	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.30	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	4.9	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ;0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ;0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ;0.05)	Annex K of IS 13428-2005	0.2	1.0

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Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part - 52):2003	NA	NA
23	Zinc as Zn	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ;0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ;0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ;0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ;0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ;0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation

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Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	O,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDT	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/260323**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Phorate	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	2,4-D	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ (LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.037	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ;0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ;0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ;0.09)	IS 14191 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ;0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited.**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/WT/004/260323**
Report Date : **03/01/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **30/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ;0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ;0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ;0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/MB/096/260323**
Report Date : **27/12/2022**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHIS
Microbiologist

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Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Saiyyadpur Karhal, Mainpuri, Uttar Pradesh**

Report No. : **HECSL/AN/002/250323**
Report Date : **31/03/2023**

Sample Description : **Noise Monitoring(DG Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -25/03/2023**

Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

S.No	Location	Noise Level in dB(A)	Permissible Limit of CPCB (DG Door Closed)
1	DG -40 KVA Door Open	93.5	75 Max
2	DG-40 KVA Door Close (1 m distance from Acoustic room)	72.6	

Remarks:-The Noise levels meets the requirements of CPCB Standards (Engine Rating less than 0.8 M W (800 KW).

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 083

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Intermediate Pigging Station (IP Station), Saiyyadpur Karhal, Mainpuri, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**

Report No. : **HECSL/AN/001/250323**
Report Date : **31/03/2023**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **25/03/2023 -26/03/2023**
Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise Near Control Room
1	06-07	62.9
2	07-08	62.6
3	08-09	60.2
4	09-10	60.4
5	10-11	58.9
6	11-12	60.5
7	12-13	59.8
8	13-14	58.2
9	14-15	57.9
10	15-16	58.3
11	16-17	60.2
12	17-18	58.4
13	18-19	59.8
14	19-20	58.3
15	20-21	58.9
16	21-22	58.8
17	22-23	55.8
18	23-24	55.9
19	00-01	52.1
20	01-02	53.7
21	02-03	52.2
22	03-04	52.4
23	04-05	49.9
24	05-06	49.4
	Ld	**61.7**
	Ln	**54.9**
	Ldn	**60.4**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/018/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near MCC Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **20/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.26	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.18	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.20	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.51	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.26	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.58	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/019/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Control Room F.S**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **20/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.38	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	20.46	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.29	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.18	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.48	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L.- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/AA/020/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Control Room B.S**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **20/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.48	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.61	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.20	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	20.53	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.46	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.82	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/020/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	6.83	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	170.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	36.38	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	150.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	69.83	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	19.44	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	316.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	34.58	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.26	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	5.68	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/020/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/020/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/020/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8 1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : M/s. Hindustan Petroleum Corporation Limited,
Address of the Client : Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura

Report No. : HECSL/WT/020/210323
Report Date : 25/03/2023

Sample Description : WATER
Sample Mark : Drinking Water
Sample Drawn By : Hubert Enviro Care Systems (P) Ltd
Sampling/received Date : 21/03/2023 -21/03/2023
Analysis Commenced On : 21/03/2023

Completed On : 25/03/2023

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	µg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ 0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/MB/005/220323**
Report Date : **24/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -22/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **24/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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Authorized Signatory
A. SATHISH
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/021/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.63	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	0.5	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	420.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	88.18	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	290.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	311.76	4500 Cl – B APHA 23rd Edn. 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	48.60	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	938.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	125.36	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.31	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.61	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.07	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petrolcum Corporation Limited,** Report No. : **HECSL/WT/021/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/021/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/021/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -21/03/2023**
Analysis Commenced On : **21/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,** Report No. : **HECSL/WT/021/210323**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura** Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **30/03/2023 -30/03/2023**
Analysis Commenced On : **30/03/2023** Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/MB/006/220323**
Report Date : **24/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -22/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **24/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **Mathura Receiving Station (MRS), Mathura Depot, Industrial Area, Site-B, Opposite Mathura Refinery, Mathura**

Report No. : **HECSL/AN/002/200323**
Report Date : **25/03/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **20/03/2023 -21/03/2023**
Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room Front side	Near MCC Room
1	06-07	63.5	62.4
2	07-08	65.0	62.7
3	08-09	64.7	60.2
4	09-10	64.5	61.0
5	10-11	63.0	60.8
6	11-12	61.1	60.4
7	12-13	64.0	60.8
8	13-14	62.9	59.0
9	14-15	62.9	59.6
10	15-16	61.5	58.6
11	16-17	62.4	58.8
12	17-18	64.2	58.7
13	18-19	62.6	61.2
14	19-20	62.9	58.5
15	20-21	63.1	59.8
16	21-22	60.1	59.3
17	22-23	58.0	56.3
18	23-24	56.8	55.2
19	00-01	54.1	52.9
20	01-02	53.5	54.3
21	02-03	54.9	53.4
22	03-04	53.4	52.4
23	04-05	53.3	51.9
24	05-06	53.0	54.1
	Ld	**63.9**	**59.7**
	Ln	**55.6**	**53.5**
	Ldn	**62.4**	**58.4**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/43/250323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023** Completed On :**31/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.58	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.41	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.18	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.62	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.65	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.05	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/44/250323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023** Completed On : **31/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.38	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.16	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	53.82	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.10	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.25	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.84	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.
Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HECS ENVIRO CARE SYSTEMS (P) Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/45/250323**
Report Date : **31/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Back Side**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023** Completed On :**31/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.44	IS: 5182 (Part - 2)	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.65	IS: 5182 (Part - 6)	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	50.28	IS: 5182 (Part - 23)	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.41	IS: 5182 (Part - 24)	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS : 5182 (Part - 10)	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.68	IS : 5182 (Part - 9)	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.20	IS 5182 Part 25	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 11)	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS: 5182 (Part - 12)	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.19	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	80.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	20.04	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	90.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	20.78	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	7.29	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	281.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	5.98	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	BLQ(LOQ:0.2)	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	2.79	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

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TEST REPORT

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Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

Verified By

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2) 1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 14194 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/027/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**

Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/093/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **26/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Verified By

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
1	pH (at 25 °C)	-	7.79	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NT	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	380.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	80.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	230.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	277.13	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	43.74	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	912.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	49.26	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.34	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	11.4	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.056	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ 0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	1. Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
23	Zinc as Zn	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	5	15
24	Copper as Cu	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ0.001)	HECS-G/INS/SOP/001	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ0.0005)	HECS-G/INS/SOP/001	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ 0.5)	HECS-G/INS/SOP/053	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS 3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/reccived Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	P,P-DDT	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.002	No Relaxation

Verified By

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SIVAPRAKASAM. M
Lab Manager

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	2,4-D	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba #	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ0.005)	HECS-G/INS/SOP/001	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 14194 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/001	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	ug/l	BLQ(LOQ 0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.06	No Relaxation

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E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : **M/s. Hindustan Petrolcum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/028/250323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **25/03/2023**
Completed On : **31/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits	Permissible Limits
	Chloroform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.2	No Relaxation
	Bromoform	ug/l	BLQ(LOQ 0.01)	HECS-G/INS/SOP/029	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ0.00001)	HECS-G/INS/SOP/009	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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E-mail : labsales@hecs.in

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ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/094/240323**
Report Date : **31/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **24/03/2023 -25/03/2023**
Analysis Commenced On : **26/03/2023**
Completed On : **27/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits	Permissible Limits
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 7 - Hussainpur Garhiya, Jasrana, Firozabad, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems Pvt Ltd**
Sampling/received Date : **24/03/2023 -24/03/2023**
Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

Report No. : **HECSL/AN/011/251222**
Report Date : **28/12/2022**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room	Near Front Gate
1	06-07	58.3	50.3
2	07-08	61.2	55.9
3	08-09	59.0	53.2
4	09-10	58.0	52.1
5	10-11	53.5	49.6
6	11-12	55.1	48.3
7	12-13	56.5	48.4
8	13-14	54.3	50.2
9	14-15	56.2	49.0
10	15-16	54.9	49.2
11	16-17	55.7	47.8
12	17-18	55.8	48.9
13	18-19	55.3	46.4
14	19-20	54.3	48.0
15	20-21	55.6	50.1
16	21-22	55.6	46.6
17	22-23	52.8	44.1
18	23-24	50.0	43.8
19	00-01	48.5	41.2
20	01-02	50.2	40.1
21	02-03	49.4	40.5
22	03-04	48.6	40.1
23	04-05	46.5	39.0
24	05-06	47.6	42.5
	Ld	**59.9**	**59.9**
	Ln	**53.7**	**53.7**
	Ldn	**58.6**	**58.6**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
Iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB

End of Report

Authorized Signatory

SIVAPRAKASAM
Lab Manager

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Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

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(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/001/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 - 23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –342 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1185 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	12.38	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	24.15	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.34	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.63	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.46	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.82	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/002/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Building Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	10.43	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.31	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.64	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	23.52	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.35	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.02	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AA/003/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.26	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	22.48	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.31	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	21.53	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.83	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.54	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ 1)	IS: 5182 (Part - 17):1979	NA	NA

Note:- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

Remarks:-The Tested Parameters as above are within the Limits of NAAQ Standards 2009.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/006/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	6.86	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	145.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	30.06	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	160.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	59.38	4500 Cl — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	17.01	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	287.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	33.28	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.21	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	6.74	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C) 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/006/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**

Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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TEST REPORT

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Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/006/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

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Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petrolcum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/006/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/006/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**

Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/020/230323**
Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **24/03/2023**
Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/007/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.31	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	0.6	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	360.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	80.16	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	310.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	123.72	4500 Cl --- B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	38.88	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	576.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.31	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.42	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	13.47	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	0.09	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	2.4
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

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Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/007/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/007/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/007/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.059	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

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E-mail : labsales@hecs.in

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/WT/007/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petrolcum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/MB/021/230323**
Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **24/03/2023**
Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

A. SATHISH KUMAR
Microbiologist

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18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 6 - Eta, Tundla, Firozabad, Uttar Pradesh**

Report No. : **HECSL/AN/003/220323**
Report Date : **28/03/2023**

Sample Description : **Noise Monitoring(Ambient Noise)**
Sample Drawn By : **Hubert Enviro Care Systems Pvt Ltd**
Sampling/received Date : **22/03/2023 -22/03/2023**
Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room	Near Front Gate
1	06-07	60.0	61.7
2	07-08	63.0	63.3
3	08-09	60.7	58.2
4	09-10	59.7	60.9
5	10-11	55.1	57.4
6	11-12	56.8	57.9
7	12-13	58.2	61.7
8	13-14	56.0	56.6
9	14-15	57.9	58.3
10	15-16	56.5	60.9
11	16-17	57.5	61.7
12	17-18	57.6	61.1
13	18-19	57.0	60
14	19-20	56.0	56.6
15	20-21	57.4	57.4
16	21-22	57.4	58.3
17	22-23	54.3	54.2
18	23-24	51.5	56
19	00-01	49.9	57
20	01-02	51.7	53.5
21	02-03	50.8	54.2
22	03-04	50.1	54.8
23	04-05	47.9	54.1
24	05-06	49.1	53.5
	Ld	**57.8**	**50.4**
	Ln	**50.6**	**41.8**
	Ldn	**56.5**	**48.9**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
Iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/004/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Front Gate**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –343 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1181 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.73	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.58	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	54.21	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	22.84	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	6.54	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/005/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Control Room**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**
Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	11.54	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	23.52	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	55.35	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	24.16	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	11.82	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	7.35	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

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SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/AA/006/230323**
Report Date : **28/03/2023**

Sample Description : **Ambient Air Quality**
Sampling Location : **Near Building Backside**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023** Completed On : **28/03/2023**

Instruments Name & Sl.No : **Respirable Dust Sampler (RDS) & APM 460 –341 G 22**
Calibration Due date : **03/08/2023**

Instruments Name & Sl.No : **Fine Particulate Sampler (FPS) & APM 550MINI-1161 E 22**
Calibration Due date : **26/07/2023**

S.No.	Parameters	Units	Results Obtained	Test Method	NAAQ Standards : 2009	
1	Sulphur Dioxide	µg/m³	13.20	IS 5182 (Part - 2) : 2001	80 (24 hours)	50 (Annual)
2	Nitrogen Dioxide	µg/m³	25.41	IS 5182 (Part - 6) : 2006	80 (24 hours)	40 (Annual)
3	Particulate Matter Size Less than 10 µm	µg/m³	52.38	IS 5182 (Part - 23) : 2006	100 (24 hours)	60 (Annual)
4	Particulate Matter Size Less than 2.5 µm	µg/m³	25.10	IS 5182 (Part - 24) : 2006	60 (24 hours)	40 (Annual)
5	Carbon Monoxide	mg/m³	BLQ(LOQ 0.05)	IS 5182 (Part - 10) : 1999	4 (1 hours)	2 (8 hours)
6	Lead	µg/m³	BLQ(LOQ 0.05)	HECS-G/INS/SOP/ 041	1 (24 hours)	0.5 (Annual)
7	Ozone	µg/m³	10.73	IS 5182 (Part - 9) : 1974	180 (1 hours)	100 (8 hours)
8	Ammonia	µg/m³	5.84	IS 5182 (Part - 25) : 2018	400 (24 hours)	100 (Annual)
9	Benzene	µg/m³	BLQ(LOQ 1)	IS 5182 (Part - 11) : 2006	5 (Annual)	5 (Annual)
10	Benzo(a)pyrene	ng/m³	BLQ(LOQ 1)	IS 5182 (Part - 12) : 2004	1 (Annual)	1 (Annual)
11	Arsenic	ng/m³	BLQ(LOQ 2)	HECS-G/INS/SOP/041	6 (Annual)	6 (Annual)
12	Nickel	ng/m³	BLQ(LOQ 10)	HECS-G/INS/SOP/041	20 (Annual)	20 (Annual)
13	Volatile Organic Compounds	µg/m³	BLQ(LOQ 0.05)	HECS/INS/SOP/073	NA	NA
14	Total Hydro Carbon	µg/m³	BLQ(LOQ0.1)	IS: 5182 (Part - 17):1979	NA	NA

Note:-BDL - Below Detection Limit, D.L- Detection Limit, µg/m³- Micrograms per cubic meter, mg/m³- Milligrams per cubic meter, ng/m³- Nanograms per cubic meter.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/008/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.41	IS 3025 (Part - 11):1983	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):1983	5	15
3	Turbidity	NTU	0.3	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):1983	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	250.0	IS 3025 (Part - 21):1983	200	600
7	Calcium as Ca	mg/l	52.10	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	270.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	94.03	4500 Cl - — B APHA 23rd Edn: 2017	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 27):1986	0.05	No Relaxation
12	Magnesium as Mg	mg/l	29.16	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	458.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	45.12	IS 3025(Part - 24):1986	200	400
15	Fluoride	mg/l	0.46	IS 3025 (Part - 60):1986	1.0	1.5
16	Nitrate as NO3	mg/l	9.14	IS 3025 (Part 34): 1988	45	No Relaxation
17	Iron as Fe	mg/l	0.05	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/008/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Sc	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

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Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/008/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

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Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/008/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.00001)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.002)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/008/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide		BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

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Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/MB/022/230323**
Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Drinking Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **24/03/2023**
Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 15185: 2016	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS:10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/009/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	pH (at 25 °C)	-	7.41	IS 3025 (Part - 11):2022	6.5 - 8.5	No relaxation
2	Colour	Hazen Unit	BLQ(LOQ:1.0)	IS 3025(Part - 4):2021	5	15
3	Turbidity	NTU	BLQ(LOQ:0.1)	IS 3025(Part - 10):1984	1	5
4	Odour	-	Agreeable	IS 3025 (Part - 5):2018	Agreeable	Agreeable
5	Taste	-	Agreeable	IS 3025 (Part - 8):1984	Agreeable	Agreeable
6	Total Hardness as CaCO3	mg/l	270.0	IS 3025 (Part - 21):2009	200	600
7	Calcium as Ca	mg/l	56.11	IS 3025 (Part - 40):1991	75	200
8	Total Alkalinity as CaCO3	mg/l	310.0	IS 3025 (Part - 23):1986	200	600
9	Chloride as Cl	mg/l	108.87	4500 Cl – B APHA 23rd Edn:	250	1000
10	Residual free Chlorine	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):2021	0.2	1
11	Cyanide as CN	mg/l	BLQ(LOQ:0.01)	IS 3025(Part - 27)Sec 1:2021	0.05	No Relaxation
12	Magnesium as Mg	mg/l	31.59	IS 3025 (Part - 46) 1994	30	100
13	Total Dissolved Solids	mg/l	513.0	IS 3025(Part -16):1984	500	2000
14	Sulphate as SO4	mg/l	47.26	IS 3025(Part - 24)Sec 1:2022	200	400
15	Fluoride	mg/l	0.39	IS 3025 (Part - 60):2008	1.0	1.5
16	Nitrate as NO3	mg/l	7.21	IS 3025(Part - 34)Sec 3:2021	45	No Relaxation
17	Iron as Fe	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 53):2003	1.0	No Relaxation
18	Aluminium as Al	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 55):2003	0.03	0.2
19	Boron as B	mg/l	BLQ(LOQ:0.1)	IS:3025 (Part - 57):2005	0.5	1.0
20	Phenolic compounds as C6H5OH	mg/l	BLQ(LOQ:0.001)	APHA 23rd edition (Method 5530C): 2017	0.001	0.002
21	Anionic Detergents as MBAS	mg/l	BLQ(LOQ:0.05)	Annex K of IS 13428-2005	0.2	1.0
22	Hexavalent Chromium as Cr6+	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part - 52):2003	NA	NA

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) Ltd. Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Hubert Enviro Care Systems (P) Ltd.
A-21, III Phase, Thiru Vi Ka Industrial Estate,
Guindy, Chennai - 600 032.
Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/009/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
23	Zinc as Zn	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	5	15
24	Copper as Cu	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.05	1.5
25	Manganese as Mn	mg/l	BLQ(LOQ:0.05)	USEPA Method 200.8:1994	0.1	0.3
26	Cadmium as Cd	mg/l	BLQ(LOQ:0.001)	USEPA Method 200.8:1994	0.003	No Relaxation
27	Lead as Pb	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
28	Selenium as Se	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	No Relaxation
29	Arsenic as As	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.01	0.05
30	Mercury as Hg	mg/l	BLQ(LOQ:0.0005)	USEPA Method 200.8:1994	0.001	No Relaxation
31	Mineral Oil	mg/l	BLQ(LOQ:0.5)	IS 3025 (Part39):1991	0.5	No Relaxation
32	Sulphide as S2-	mg/l	BLQ(LOQ:0.04)	IS3025 (Part - 29):1986	0.05	No Relaxation
33	**Pesticides**					
	Alpha HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00001	No Relaxation
	Beta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	Gama HCH (Lindane)	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Delta HCH	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00004	No Relaxation
	O,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation

Verified By

HECS ENVIRO CARE SYSTEMS Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	P,P-DDT	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDD	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	O,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	P,P-DDE	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.001	No Relaxation
	Endosulfansulphate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.0004	No Relaxation
	Chlorpyrifos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.03	No Relaxation
	Butachlor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.125	No Relaxation
	Alachor	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.02	No Relaxation
	Atrazine	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation
	Aldrin	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.00003	No Relaxation
	Monocrotophos	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.001	No Relaxation
	Ethion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.003	No Relaxation
	Phorate	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2:1995	0.002	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) Chennai 600 032

Authorized Signatory
SIVAPRAKASAM. M
Lab Manager

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Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/009/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	2,4-D	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.03	No Relaxation
	Isoproturon	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.009	No Relaxation
	Methyl Parathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.0003	No Relaxation
	Malathion	mg/l	BLQ(LOQ:0.00001)	USEPA Method 8321B:2007	0.190	No Relaxation
34	Nickel	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.02	No Relaxation
35	Ammonia as NH3	mg/l	BLQ(LOQ:0.02)	IS 3025 (Part - 34) 1982	0.5	No Relaxation
36	Barium as Ba	mg/l	0.032	USEPA Method 200.8:1994	0.7	No Relaxation
37	Silver as Ag	mg/l	BLQ(LOQ:0.005)	USEPA Method 200.8:1994	0.1	No Relaxation
38	Alpha Emitters	Bq/l	BLQ(LOQ:0.005)	IS 14194 (Part - 2):1994	0.1	No Relaxation
39	Beta Emitters	Bq/l	BLQ(LOQ:0.09)	IS 14194 (Part - 1):1994	1.0	No Relaxation
40	Chloramines	mg/l	BLQ(LOQ:0.1)	IS 3025 (Part - 26):1986	4.0	No Relaxation
41	Molybdenum	mg/l	BLQ(LOQ:0.01)	USEPA Method 200.8:1994	0.07	No Relaxation
42	Polychlorinated Biphenyls	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.5:1995	0.0005	No Relaxation
43	**Trihalomethanes**					
	Dibromochloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
	Bromodichloromethane	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.06	No Relaxation

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

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SIVAPRAKASAM. M
Lab Manager

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TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/WT/009/230323**
Report Date : **28/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **22/03/2023 -23/03/2023**
Analysis Commenced On : **23/03/2023**
Completed On : **28/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500-2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
	Chloroform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.2	No Relaxation
	Bromoform	µg/l	BLQ(LOQ:0.01)	APHA 6232 23rd Edn: 2017	0.1	No Relaxation
44	Cyanide	mg/l	BLQ(LOQ:0.01)	IS 3025 (Part-27):1986	0.05	No Relaxation
45	Polyneuclear Aromatic Hydrocarbons	mg/l	BLQ(LOQ:0.00001)	USEPA Method 525.2 : 1995	0.0001	No Relaxation

Note :- BLQ - Below the Limit of Quantification, LOQ- Limit of Quantification, NTU- Nephelometric Turbidity Unit, mg/l- Milligrams per litre, NA –Not Applicable.
Remarks: The Tested Parameters as above are within the Permissible Limits of Drinking Water Standards IS: 10500:2012.

End of Report

Verified By

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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Ph: 42985555 / 43635555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**

Report No. : **HECSL/MB/023/230323**
Report Date : **25/03/2023**

Sample Description : **WATER**
Sample Mark : **Ground Water**
Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **23/03/2023 -23/03/2023**
Analysis Commenced On : **24/03/2023**
Completed On : **25/03/2023**

S.No.	Parameters	Units	Results	Test Method	IS:10500 - 2012	
					Acceptable Limits(Max)	Permissible Limits(Max)
1	Total Coliform Bacteria	Per 100ml	Absent	IS 1622	Absent/100ml	NA
2	Escherichia coli	Per 100ml	Absent	IS 1622	Absent/100ml	NA

Note:- NA – Not Applicable.

Remarks: The Tested Parameters as above are within the Limits of Drinking Water Standards IS: 10500:2012.

End of Report

HUBERT ENVIRO CARE SYSTEMS (P) LTD. Chennai 600 032

Verified By

Authorized Signatory
A. SATHISH KUMAR
Microbiologist

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Hubert Enviro Care Systems (P) Ltd.
18, 92nd Street, Ashok Nagar,
Chennai - 600 083.
Ph: 42985555 Fax : 42985500
E-mail : labsales@hecs.in

Laboratory Services Division
(Chemical & Biological Testing)
Recognized by MoEF, BIS
FSSAI Notified Laboratory
ISO 9001, 14001 & 45001 Certified.

TEST REPORT

Name of the Client : **M/s. Hindustan Petroleum Corporation Limited,**
Address of the Client : **SV 5 - Pachawari, Sadabad, Hathras, Uttar Pradesh**
Sample Description : **Noise Monitoring(Ambient Noise)**

Report No. : **HECSL/AN/004/210323**
Report Date : **25/03/2023**

Sample Drawn By : **Hubert Enviro Care Systems (P) Ltd**
Sampling/received Date : **21/03/2023 -22/03/2023**

Instrument Model & Sl.No : **LUTRON & Q 653042**
Calibration Validity Period : **23/02/2023 to 22/02/2024**

S.No.	Time (Hrs)	Monitoring Location & Hourly Leq Noise	
		Near Control Room Front	Near MCC Room
1	06-07	61.7	63.8
2	07-08	63.3	64.1
3	08-09	58.2	61.8
4	09-10	60.9	62.6
5	10-11	57.4	62.4
6	11-12	57.9	62.0
7	12-13	61.7	62.4
8	13-14	56.6	60.5
9	14-15	58.3	61.2
10	15-16	60.9	60.0
11	16-17	61.7	60.2
12	17-18	61.1	60.1
13	18-19	60	62.7
14	19-20	56.6	59.8
15	20-21	57.4	61.4
16	21-22	58.3	60.8
17	22-23	54.2	57.6
18	23-24	56	56.6
19	00-01	57	54.1
20	01-02	53.5	55.9
21	02-03	54.2	54.7
22	03-04	54.8	53.6
23	04-05	54.1	53.2
24	05-06	53.5	55.6
	Ld	**65.3**	**63.7**
	Ln	**56.8**	**57.1**
	Ldn	**63.8**	**62.4**

Legend: Leq- Equivalent Noise Level (hourly); Ld-Day Time Equivalent Noise Level (06:00-22:00 hrs); Ln-Night Time Equivalent Noise Level (22:00-06:00 hrs); and Ldn-24 hourly Equivalent Noise Level.

Limits set by CPCB:

i.	Industrial Area	: Day Time-75 dB (A);	Night Time-70 dB (A).
ii.	Commercial Area	: Day Time-65 dB (A);	Night Time-55 dB (A).
iii.	Residential Area iv.	: Day Time-55 dB (A);	Night Time-45 dB (A).
iv.	Silence Zone	: Day Time-50 dB (A);	Night Time-40 dB (A).

Remarks:-The Noise levels meet the requirements of CPCB.

End of Report

Authorized Signatory

SIVAPRAKASAM. M
Lab Manager

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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुम्बई 400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020
Rewari Kanpur Pipeline, Rewari Receiving & Pumping Station, Depot, VPO Karnawas-123 401 (Haryana) Tele : 01274-269517
रेवाड़ी कानपुर पाईपलाइन, रेवाड़ी रिसिविंग एण्ड पम्पिंग स्टेशन, डिपो, गांव व डाक करनावास, रेवाड़ी - 123 401 (हरियाणा) टेली : Tele : 01274-269517
Corporate Identity Number : L23201MH1952GO1008858
(ISO 9001 : 2015, ISO 14001 : 2015, ISO 18001 : 2007, ISO 50001 : 2011 CERTIFIED)
"SAVE ENERGY - CONSERVE ENVIRONMENT"

To,

Regional Officer
Haryana State Pollution Control Board
Lala Nemichand Singhal Enclave
Sohna Road
Dharuheda, Distt-Rewari
Haryana

Sub: Submission of Annual Return in Form No. 4 for financial year 2022-23 for Grant of Authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 Authorization No. :HWM/REW/2022/17362454, DT: 01/02/2022.

Dear Sir,

With reference to Grant of Authorization under Hazardous and Other Wastes(Management & Transboundry Movement) Rules, 2016, annual return shall be filed by June 30th for the period ensuring 31 st March of the year.

In light of above, we are herewith submitting Annual Report (form No. 4) for financial year 2022-23 along with required details for your ready reference.

Hope the above details are as per your requirements. Request you to kindly acknowledge the same.

Thanking you,

13/6/23

Yours Sincerely

6/6/23

Vipin Kumar
Chief Station Manager
HINDUSTAN PETROLEUM CORP LTD,
REWARI BAWAL ROAD VILLAGE KARNAWAS

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड, मुम्बई 400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020
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Corporate Identity Number : L23201MH1952GO1008858
(ISO 9001 : 2015, ISO 14001 : 2015, ISO 18001 : 2007, ISO 50001 : 2011 CERTIFIED)
"SAVE ENERGY - CONSERVE ENVIRONMENT"

To,

Date:06/06/2023

Regional Officer
Haryana State Pollution Control Board
Lala Nemichand Singhal Enclave
Sohna Road
Dharuheda, Distt-Rewari
Haryana

Sub: Submission of Annual Return in Form No. 4 for financial year 2021-22 for Grant of Authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 Authorization No. : HWM/REW/2021/9737354, Date: 26/03/2021.

Dear Sir,

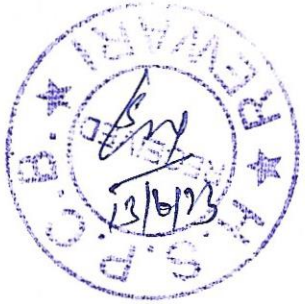
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Thanking you,

Yours Sincerely



Vipin Kumar
Chief Station Manager
Hindustan Petroleum Corp Ltd Rewari Kanpur Pipeline
Rewari Bawal Road Village Karnawas Rewari

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(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE 17 JAMSHEDJI TATA ROAD MUMBAI-400 020
Rewari Kanpur Pipeline, Rewari Receiving & Pumping Station, Depot, VPO Karnawas-123 401 (Haryana) Tele : 01274-269517
रेवाड़ी कानपुर पाईपलाइन, रेवाड़ी रिसिविंग एण्ड पम्पिंग स्टेशन, डिपो, गांव व डाक करनावास, रेवाड़ी - 123 401 (हरियाणा) टेली : Tele : 01274-269517
Corporate Identity Number : L23201MH1952GO1008858
(ISO 9001 : 2015, ISO 14001 : 2015, ISO 18001 : 2007, ISO 50001 : 2011 CERTIFIED)
"SAVE ENERGY - CONSERVE ENVIRONMENT"

To,

Date:06/06/2023

Regional Officer
Haryana State Pollution Control Board
Lala Nemichand Singhal Enclave
Sohna Road
Dharuhera, Distt-Rewari
Haryana

Sub: Submission of form-VIII(Returns of Bulk Consumer of Batteries) and Form-V (Environmental Statement for FY 2022-23) for CTO Authorization No. HSPCB/Consent/: No. HSPCB/Consent/ : HSPCB/Consent/ : 313308021REWCTO16149726, DT: 11/11/2022.

Dear Sir,

With reference to CTO Authorization No. HSPCB/Consent/: 313308021REWCTO16149726, DT: 11/11/2022 we are hereby submitting following forms for your kind acknowledgement.

1. Form-V Environment Statement for FY 2022-23 ending on 31.03.2023.
2. Form-VIII Returns of Bulk consumer of Batteries.

Hope the above details are as per your requirements. Request you to kindly acknowledge the same.

Thanking you,

Yours Sincerely

Vipin Kumar
Chief Station Manager
HINDUSTAN PETROLEUM CORP LTD,
REWARI BAWAL ROAD VILLAGE KARNAWAS

13/6/23

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
(भारत सरकार का उपक्रम) रजिस्टर्ड ऑफिस : 17, जमशेदजी टाटा रोड़, मुम्बई 400 020
HINDUSTAN PETROLEUM CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI-400 020
Rewari Kanpur Pipeline, Rewari Receiving & Pumping Station, Depot, VPO Karnawas-123 401 (Haryana) Tele : 01274-269517
रेवाड़ी कानपुर पाईपलाइन, रेवाड़ी रिसिविंग एण्ड पम्पिंग स्टेशन, डिपो, गांव व डाक करनावास, रेवाड़ी - 123 401 (हरियाणा) टेली : Tele : 01274-269517
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"SAVE ENERGY - CONSERVE ENVIRONMENT"

To,

Date:06/06/2023

Regional Officer
Haryana State Pollution Control Board
Lala Nemichand Singhal Enclave
Sohna Road
Dharuhera, Distt-Rewari
Haryana

Sub: Submission of form-VIII(Returns of Bulk Consumer of Batteries) and Form-V (Environmental Statement for FY 2022-23) for CTO Authorization No. HSPCB/Consent/: 313308020REWCTO8152459 Dated:31/10/2020.

Dear Sir,

With reference to CTO Authorization No. HSPCB/Consent/: 313308020REWCTO8152459 Dated:31/10/2020 we are hereby submitting following forms for your kind acknowledgement.

1. Form-V Environment Statement for FY 2022-23 ending on 31.03.2023.
2. Form-VIII Returns of Bulk consumer of Batteries.

Hope the above details are as per your requirements. Request you to kindly acknowledge the same.

Thanking you,

Yours Sincerely

6/6/23

Vipin Kumar
Chief Station Manager
Hindustan Petroleum Corp Ltd Rewari Kanpur Pipeline
Rewari Bawal Road Village Karnawas Rewari

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info@nityalab.com www.nityalab.com

Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000338F
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	01/02/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Generator Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	20
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter ($PM_{2.5}$), µg/m^3	40.10	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM_{10}), µg/m^3	90.39	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO_2), µg/m^3	26.54	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO_2), ug/m^3	38.24	80	24 hrs	IS:5182(P-6)
5.	Ozone (as O_3), ug/m^3*	22.33	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m^3*	ND (DL-0.5)	1	24 hrs	NL/SOP/AAQ-11/IS:
7.	Carbon Monoxide (as CO), mg/m^3	1.30	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH_3), ug/m^3	43.41	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m^3*	ND (DL-1.0)	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m^3*	ND (DL-0.5)	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m^3*	ND (DL-0.5)	1	Annual	IS:5182 (P-12)
12.	Benzene (C_6H_6), ug/m^3*	ND (DL-0.5)	5	Annual	IS:5182 (P-11)
13.	Total Volatile Organic Compounds (as Isobutylene), mg/m^3	ND (DL-0.1)	-	-	SOP No. NL/SOP/AAQ /VOC/ 01 on dated 01/08/2019

Remark: ***ND**= Not Detected; **NA**= Not Applicable, DL-Detection Limit

TC-6366

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(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

Test Report No. : 202302010110
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**Ambient Air Quality Monitoring**
Date of Sampling	:	01/02/2023
Time of Sampling (Hrs)	:	11:20 AM
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 5182 (Part 14)
Sampling Location	:	Near Generator Room
Avg. Flow Rate of Air for RDS (m3/min)	:	1.14
Avg. Flow Rate of Air for FPS (m3/hr)	:	0.99
Monitoring Conducted By	:	Mr. Jatin Sharma
Ambient Temperature (°C)	:	20
Sampling Duration (Hrs.)	:	24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Test Method
1	Total Hydrocarbon as Methane	ND (DL-0.01)	-	IS:5182 (P-17)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000339F
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**Ambient Noise**
Date of Sampling	:	01/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Method of Sampling	:	IS 9989
Monitoring Conducted By	:	Mr.Jatin
Place of Monitoring	:	Near Generator Room

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) LeqFor Industrial Area		75 dB(A)	70 dB(A)
1	Near Generator Room	73.8	65.4

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

TC-6366

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000341F
Test Report Date: 10/02/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	01/02/2023
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 400 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	124
Ambient Air Temperature °C	:	21
Flue Gas Velocity (m/s)	:	12.48

Analysis Report

Sr. No.	Parameter	Units	Test Results	Permissible Limits	Test Method
1	Particulate Matter, (as PM)	g/kw-hr	0.13	0.2	IS:11255(P-1)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

Test Report No. : 202302010110
Test Report Date: 10/02/2023

Sample Particulars:

Nature of the Sample	:	**Flue Gas Emission**
Date of Sampling	:	01/02/2023
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Sampling Location	:	DGSet of 400 KVA
Method of Sampling	:	IS:11255 (P-7)
Normal Operating Schedule	:	As per requirement
Type of Stack /Duct	:	Mild Steel
Stack height from Ground Level (m)	:	7.30
Diameter of the Stack (m)	:	0.10
Sampling Duration (min)	:	40

Observations:

Flue Gas Temperature °C	:	124
Ambient Air Temperature °C	:	21
Flue Gas Velocity (m/s)	:	12.48

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Permissible Limits	Test Method
1	Oxide of Nitrogen (as NO_x)	g/kw-hr	0.76	4.0	USEPA OTM-39
2	Hydrocarbon (as HC)	g/kw-hr	0.13		As per CPCB Guidelines
3	Carbon Monoxide (as CO)	g/kw-hr	0.78	3.5	USEPA OTM-39
4	Oxides of Sulphur (as SO_x)	g/kw-hr	0.33	-	SOP No.: NL/SOP/FGA/01

Remark:
ND-Not Detected*DL-Detection Limit

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(RAVINDER MITTAL)

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PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA
+91-129-2241021 +91-9013591021, +91-9013552273 labsnitya@gmail.com www.nityalab.com

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000340F
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**DG Noise**
Date of Sampling	:	01/02/2023
Purpose of Monitoring	:	To Check the Pollution Load
Parameter Tested	:	Noise Level, Leq dB (A)*
Instrument Used	:	Sound Level Meter
Place of Monitoring	:	DG Set of Capacity 400 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	55.9	NL/SOP/ENV-05 based IS:9989	Max. Ambient Noise-75 dB (A) or Insertion Loss: Min. 25 dB	DG Set (s) non-Operational
2	Ambient Noise Level	96.8			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	72.3	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = *Central Pollution Control Board*

TC-6366

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Test Report

Issued To M/s Hindustan Petroleum Corporation Limited
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000347F
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	02/02/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	Tank Water(Storage Tank Water)

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.60	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	510	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	331	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	185	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	160	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	50	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	10.44	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.85	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	55	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	11.54	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less Than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less Than 2	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

TC-6366

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Report

Issued To **M/s Hindustan Petroleum Corporation Limited**
Rewari Despatch Station (Rewari Kanpur Pipeline)
Village Karnawas, Bawal Road, Rewari
Distt. Rewari, Rajasthan, INDIA

ULR No. : TC636623000000346F
Test Report Date: 10/02/2023

Sample Particulars

Nature of the Sample	:	**Drinking Water**
Sample Quantity & Packaging	:	1 Litre, Pet Bottle
Sample Received at Lab	:	04/02/2023
Test Started On	:	04/02/2023
Test Completed On	:	09/02/2023
Method of Sampling	:	SOP/B/D-3
Date of Sampling	:	02/02/2023
Monitoring Conducted By	:	Mr. Jatin
Sampling Location	:	RO Drinking Water

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500 2012		Protocol
				Desirable	Permissible	
1	pH	-	7.88	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2	Color	Hazen	<5	5	15	IS:3025 (P-4)
3	Electrical Conductivity	µs/cm	450	-	-	IS:3025 (P-14)
4	Turbidity	NTU	<1	1	5	APHA 23rd Ed.
5	Total Dissolved Solids	mg/l	270	500	2000	IS:3025 (P-16)
6	Total Hardness as ($CaCO_3$)	mg/l	175	200	600	IS:3025 (P-21)
7	Total Alkalinity as $CaCO_3$	mg/l	124	200	600	IS:3025 (P-23)
8	Chlorides as Cl	mg/l	39	250	1000	IS:3025(P-32
9	Sulphate as SO_4	mg/l	8.14	200	400	APHA 23rd Ed.
10	Nitrates as NO_3	mg/l	0.23	45	No Relaxation	IS:3025 (P-34)
11	Calcium as Ca	mg/l	51	75	200	IS:3025 (P-40)
12	Magnesium as Mg	mg/l	11.54	30	100	APHA 23rd Ed.
13	Fluoride as F	mg/l	ND	1.0	1.5	IS:3025 (P-60)
14	Iron (as Fe)	mg/l	ND	0.3	No Relaxation	APHA 23rd Ed.
15	Total Suspended Solids	mg/l	ND	-	-	IS:3025 (P-17)
16	E.coli*	MPN./100ml	Less Than 2	Absent	Absent	IS 1622
17	Total Coliform*	MPN./100ml	Less Than 2	Absent	Absent	IS 1622

(AUTHORISED SIGNATORY)
(RHYTHM BASSON*)

TC-6366

(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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