



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार संस्थान) रजिस्टर्ड आफिस 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



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VISAKH REFINERY, POST BOX NO. 15, VISAKHAPATNAM - 530 011 (A.P.), PHONES : 2895000, 2895100

Date: 30-Jan-2026

Ref: Project Process/26/VRMP/KVK/01

To

The Regional Officer
Integrated Regional Office (IRO), Vijayawada
Ministry Of Environment, Forest and Climate Change
Green House Complex, Gopalareddy Road
Vijayawada-520010, Andhra Pradesh

Subject: Expansion of Visakh refinery (from 8.33 MMTPA to 15 MMTPA) at Village Malkapuram, District-Visakhapatnam, Andhra Pradesh by M/s HPCL -Environmental clearance F.No.J-11011/63/2013-IA II (I) dated 11th February 2016-Reg.

As per subject Environment clearance, HPCL is supposed to send six monthly compliance report for the ongoing project activities.

Please find attached herewith six-monthly compliance report for subject environmental clearance for the period 1st Apr, 2025 to 30th Sep, 2025 for the Visakh Refinery Modernization Project (VRMP).

Very truly yours

Konala Vijay Kiran
General Manager – Projects
(VRMP)

Encl.

1. Six monthly VRMP-EC compliance report.
2. Earlier project EC compliance reports (Annexure-1)
3. Stack gas Emission analysis report (Annexure-2)
4. Ambient air quality report (Annexure-3)
5. Ground water analysis reports (Annexure-4)
6. Noise level reports (Annexure-5)
7. Tri-partite agreement for STP water supply by GVMC/ GVSCCL (Annexure-6)
8. Sulfur balance (Annexure-7)
9. Effluent analysis (Annexure-8)

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
1	The project authority must strictly adhere to the stipulations made by the A.P. Pollution Control board and the State Government.	The Refinery is currently complying with the conditions stipulated in CFO No:APPCB/VSP/VSP/72/CFO/HO/2021 dated 09.03.2021 and task force directives which were identified by APPCB vide letter no.702/APPCB/UH-II/TF/VSP/2020-295 dated 12.08.2021.
2	Any expansion of the plant, either with the existing product mix or new product(s) or storage facilities etc. /can be taken up only with the prior proposal of this Ministry.	Noted and is complied.
3	The total emission of SO ₂ from the entire refinery should be brought down from 9 TPD to 7.5 TPD in a phased manner and action plan for the same should be submitted to the Ministry. Until the SO ₂ of 7.5 TPD is achieved in the near future, the total emission of SO ₂ would not exceed the earlier prescribed limit of 9 TPD.	Subsequent to industry expansion, the SO ₂ emission limit was revised to 11.5 TPD vide EC J11011/88/96-IA-II (I) dated 10.04.97. The same limit is stipulated in the latest EC dated 11.02.2016. The average SO ₂ emissions for the period of Apr-25 to Sept-25 is 7.75 TPD and are within the stipulated limit of 11.5 TPD.
4	The gaseous emissions from various process units should conform to the standards prescribed by the concerned authorities/from time to time. At no time, the emission level should go beyond the stipulated standards. In the event of failure of any pollution control system(s) adopted by the unit, the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Monitoring of SO ₂ , NO _x , CO, PM, HC, VOCs and Benzene is being done regularly in refinery premises. Online connectivity of stack emissions analyzers is established with CPCB and APPCB servers. Further, stack emission monitoring is being carried out by MoEF recognized laboratory on monthly basis. VOCs and Benzene within refinery premises are being monitored periodically and controlled as part of LDAR survey carried out by MoEF recognized third party
5	Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided.	Sulphur Recovery Units (SRU) with >99% Sulphur recovery efficiency are installed in the refinery.

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
6	Low NO _x burners to avoid excessive formulation of NO _x should be provided.	All major furnaces are provided with low NO _x burners.
7	Adequate ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO ₂ , NO _x , HC and SPM are anticipated. The monitoring network should be decided based on the modelling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also be planned.	Based on predominant wind direction, three CAAM stations are installed in the refinery to monitor ambient air quality parameters w.r.t SO ₂ , NO _x , PM10, PM2.5, CO, Benzene, Ammonia and Ozone. HPCL-Visakh Refinery is regularly carrying out Ambient air quality monitoring outside the refinery (Malkapuram) thru a MOEF recognized third party Laboratory once in a month.
8	Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimised by adopting necessary measures.	Crude and light hydrocarbon products are stored in floating roof tanks with secondary seals to minimize vapor space and hence hydrocarbon emissions from storage tanks are minimized. Hydrocarbon detectors are provided in the plant and storage tank areas.
9	Adequate facilities for monitoring the fugitive emissions should be planned.	Leak Detection and Repair (LDAR) survey is being carried out regularly by MoEF recognized third party laboratory for monitoring fugitive emissions.

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
10	The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary. Height of stacks attached to crude oil furnace and waste heat boiler should be increased to the maximum height as permitted by the Civil Aviation Department. Continuous on-line stack monitoring equipment for measurement of SO ₂ & NO _x should be installed. The monitored data should be submitted to SPCB every 3 months and every 6 months to the Ministry of Env.& Forest for review.	Process furnaces, boilers and gas turbines are provided with tall stacks (about 60 m) for better dispersion of flue gases. Online connectivity of stack emission analyzers established with CPCB an APPCB servers. Analysis of stack flue gases is being carried out by MoEF recognized third party laboratory on monthly basis and being submitted to APPCB as per the requirement.
11	The existing waste water treatment facilities should be suitably augmented so as to meet the MINAS standards.	Integrated Effluent Treatment Plant (IETP) having capacity of treating 1000m ³ /hr of effluent and always meeting MINAS standards.
12	Recycling/Reuse of the treated effluent to the maximum extent possible should be planned.	The influent streams to Integrated Effluent Treatment Plant (IETP) are treated and the treated effluent water is being recycled/reused fully as Cooling water make up.
13	Adequate number of influent and effluents quality monitoring stations have to be planned with adequate facilities especially for the parameters like phenols, sulphides / oil and grease, suspended solids BOD, COD, PH and flow.	Online liquid effluent monitoring facilities are available for pH, TSS, BOD and COD in line with CPCB guidelines and connectivity of these analyzers established with APPCB and CPCB servers. Flowmeters are available on sea cooling water supply headers.

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
		Further, the treated effluent quality is being monitored by MoEF recognized Third Party laboratory on monthly basis.
14	System to recover oil from the oily sludge and incinerator producing the residues should be provided.	Oily sludge in the refinery is being processed for recovery of oil. The recovered oil is reprocessed. The residual oily sludge is bio-remediated by using bacteria developed by Inhouse R&D and not incinerated. Hence, incinerator is not required.
15	Hazardous substances and solid wastes should be handled stored and disposed off as per the Hazardous Wastes (Management and Handling) Rules, 1989 of the EPA 1986.	Hazardous wastes are being handled, stored and disposed of in accordance with the Hazardous & Other Waste Management Rules, 2016.
16	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing acoustic hoods, silencers etc. on all the sources of noise generation.	Noise monitoring is carried out on monthly basis at various locations in the refinery. The noise levels are within the standards for most of the locations. Measures like usage of earmuffs, display of signage boards, restricting the duration of exposure etc. are followed for high noise level areas.
17	The density of green belt within the Plant premises should be increased using native plant species in consultation with the local DFO.	Existing green belt area is 112 acres. tree plantation on a massive scale has been carried out in various locations of Visakhapatnam under “Green Visakha” program. The Green Visakha and Vanam Manam programs were taken up by Respondent’s Visakh Refinery as per the directives of APPCB”. HPCL-VR has planted 6,50,000 plantations covering an area of approximately 700 acers of Plantation, and is complying with the CFE condition. Approximately Rs.26 crores were incurred for green belt development during 2011-2021 by HPCL-VR.

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
		<p>In addition to this, HPCL-VR has taken up plantation of saplings under Vanam Manam program initiated by Andhra Pradesh State Government and completed the target plantation of 10,000 saplings in Jan 2019.</p> <p>Above plantation measures, provide a green cover more than the present shortfall of greenbelt within the refinery. Further, Green belt of 67 acres is developed near the refinery under VRMP (modernization project).</p> <p>Plantation of 26500 samplings in the vicinity of Refinery is being done in association with Greater Visakh Municipal Corporation (GVMC) is in progress</p>
18	<p>Various socio-economic schemes should he initiated by HPCL, so to improve the socio economic environment in the region.</p>	<p>Various developmental activities such as construction of toilet blocks, supply of furniture, supply of computers, scholarships to students, health camps, supply of diagnostic machines etc., are taken up in schools & hospitals in the region under Corporate Social Responsibility (CSR) program.</p>
19	<p>Recommendation made by NEERI in the EMP should be implemented and action plan for implementation of the same should be submitted to the Ministry for review.</p>	<p>NEERIs recommendations and action plans were submitted to MoEF&CC. Among the NEERI recommendations, one recommendation couldn't be complied.</p> <p>Effluent discharge through a single outlet was recommended by NEERI. However, 2 outlets are provided as the refinery is in a low-lying area with respect to MSL. The 2 outlets are joined together outside the boundary of the refinery into a single channel outlet outside the Refinery</p>

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
20	Necessary approvals from the Chief Explosives directorate, inspector of factories, Fire Safety Inspector etc. should be obtained and copies of approval letters, be made available to this Ministry for the storages and facilities curtaining to highly inflammable materials.	Necessary approvals are in place.
21	The project authority should set up laboratory facilities for collection and analysis of samples under the supervision of competent technical personnel, who will directly report to the Chief Executive.	Refinery has a dedicated quality control laboratory for analysis of environmental parameters under the supervision of competent technical personnel.
22	An Environmental Management Cell should be established with suitably qualified People to carry out various functions and should be set up under the control or senior executive who will report directly to the head of the organization.	Under Technical Services Department, Process Safety & Environment (PS&E) is a separate division, which looks after the Environmental and Process safety functions. This division reports to Head – Technical who in turn reports to Executive Director of the refinery.
23	Medical surveillance of workers should be done regularly to avoid possibility of contracting occupational diseases against the workers engaged in the various plants and record maintained.	Regular health check-ups of all the employees in the refinery are being carried out and the records are maintained in the Occupational Health Centre.
24	The project authorities should carry out a water balance study at the proposed site and submit the report within 12 months.	Water balance study was carried out and the report was submitted to the Ministry.
25	The funds earmarked for the environmental protection measures should not be diverted for other purposes and year wise expenditure should be reported to this ministry.	The funds earmarked for environmental protection measures are being used for the same purpose only and there is no diversion of the funds. The expenditure incurred towards environmental pollution control

Compliance to VREP EC J-11011/22/94-IA II (I) dated 30.05.1995

S.No	EC Conditions	Compliance by HPCL-VR
		measures is being provided in Environment Statement (Form-V) every year.

Compliance to EC No.J-11011/88/96-IA-II (I) dated 10.04.1997

S.No	EC Conditions	Compliance by HPCL-VR
1	The project authority must-strictly adhere to the stipulations laid down by the Andhra Pradesh State Pollution Control Board and the State Govt	Noted and is complied.
2	No expansion or modernization of the plant should be carried out without prior approval of the Ministry of Environment and Forests	Noted and is complied.
3	The total SO ₂ emission from Visakh Refinery including DHDS project should not exceed the norm of 11.5 TPD.	The average SO ₂ emissions for the period of Apr 25 to Sept 25 is 7.75 TPD and are within the stipulated limit of 11.5 TPD.
4	The existing ETP should be adequately augmented (if required) to accommodate the additional effluent from the DHDS project before commissioning project so as ensure the treated effluent meets the MINAS	Integrated Effluent Treatment Plant (IETP) having capacity of treating 1000m ³ /hr of effluent which is adequate.
5	Time bound Action Plan for disposal of Oil Sludge/recovery of oil and design details of the solid waste disposal pit should be furnished to the Ministry within a period of 3 months	Oily sludge in the refinery is being processed for recovery of oil. The recovered oil is reprocessed. The residual oily sludge is bio-remediated by Bio-Remedia which is developed by our R&D.
6	SRU having an efficiency of more than 99% should be installed	Sulphur Recovery Units (SRU) with >99% Sulphur recovery efficiency are installed in the refinery.
7	The ground water quality should be regularly monitored and report submitted to the Ministry every six months.	Ground water quality monitoring is being carried out by MoEF recognized third party laboratory once in every six months and the reports are provided to statutory authorities during inspection.
8	Time Bound Action Plan to implement the conditions stipulated by the Ministry while according environmental clearance for the refinery complex should be submitted to the Ministry within 3 months along with details of funds allocated for implementing the above.	Complied

EC Compliance for No.J-11012/55/2003-IA-(I) dated 03.02.2004

S.No	EC Conditions	Compliance by HPCL-VR										
1	The company shall comply with all the conditions stipulated by this Ministry vide its letter no. J-11011/88/96-IA-11 (I) dated 10th April, 1997.	Complied.										
2	Specific limits stipulated for SO ₂ (11.5 TPD), HC (2.5 TPD), SPM (1.1 TPD) and NO _x (6.5 TPD) at para 2 should be strictly complied.	<p>Complied.</p> <p>Average emission loads for the period Apr 25 to Sept 25 are provided below:</p> <table border="0" data-bbox="1150 597 1386 797"> <tr> <td>Emissions</td> <td>TPD</td> </tr> <tr> <td>SO₂</td> <td>7.75</td> </tr> <tr> <td>SPM</td> <td>0.41</td> </tr> <tr> <td>HC</td> <td>0.49</td> </tr> <tr> <td>NO_x</td> <td>1.53</td> </tr> </table>	Emissions	TPD	SO ₂	7.75	SPM	0.41	HC	0.49	NO _x	1.53
Emissions	TPD											
SO ₂	7.75											
SPM	0.41											
HC	0.49											
NO _x	1.53											
3	The fresh water consumption should be pegged at 523 m ³ /hr after the proposed modernization. The additional water required, if any, should be met through recycling/reuse of treated effluent.	<p>Fresh water consumption is within the stipulated limit of 1538 m³/hr as per the latest CFO dated 09.03.2022.</p> <p>The influent streams to Integrated Effluent Treatment Plant (IETP) are treated and the treated effluent water is being recycled/reused fully as Cooling water make up.</p>										
4	The industry shall implement all the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) regarding air pollution, waste water and solid waste management and oil spill response facilities at Coastal refineries.	Noted and is complied.										
5	All the recommendations made in the Risk Analysis Report should be complied with during design, construction and operation stages to contain the risk within the plant boundary.	The Risk Analysis Report relates to a specific project and the same has been implemented as required										

S.No	EC Conditions	Compliance by HPCL-VR
6	No further modernization of the project should be carried out without prior permission of the Ministry.	Noted and is complied.
7	Implementation of the project vis-à-vis Environmental management / risk mitigation measures should be reported to the Ministry / Regional Office / State Pollution Control Board regularly on a six-monthly basis.	Noted and is complied.

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
1.	All the safety and security systems provided in Risk Analysis Report for the Project shall be implemented. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Management Plan and Risk Analysis Report submitted to the Ministry vide letter no. CEE/07/MLVR/056 dated 19th October 2007.	The Risk Analysis Report relates to a specific project and the same has been implemented as required
2.	There shall be no solid waste or release of pollutants.	There is no solid waste generation from the LPG / Propylene Mounded Storage facility.
3.	Regular Ambient Air Quality Monitoring shall be carried out for VOC, HC and LPG, besides other parameters in the Work Zone Area and ambient air in and around the Plant. The location and results of existing monitoring stations shall be reviewed in consultation with the concerned State Pollution Control Board based on the occurrence of maximum ground level concentration and downwind direction of wind. Additional Stations shall be set up, if required. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. Data shall be submitted to MoEF, CPCB and TNPCB.	Based on predominant wind direction, three CAAM stations are installed in the refinery to monitor ambient air quality parameters w.r.t SO ₂ , NO _x , PM ₁₀ , PM _{2.5} , CO, Benzene, Ammonia and Ozone. Online connectivity of these ambient air quality parameters is established with CPCB and APPCB. Further, manual monitoring of ambient air quality is being carried out by MoEF recognized third party laboratory on monthly basis at the CAAMS locations.
4.	Fugitive emissions in the work zone environment of storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution control Boards/Central Pollution Control Board.	Hydrocarbon detectors have been provided in the plant and storage tank areas. Leak Detection And Repair (LDAR) program is in place for the existing refinery where in LPG mounded bullets are also covered.
5.	There shall be no increase in the pollution load for any parameter from the expansion project.	Complied. There is no increase in pollution due to Mounded storage Project.
6.	There shall be no additional water requirement for the process except service water of 5,000 KL for commissioning and testing provisions for appropriate storage and treatment for firefighting water shall be provided.	There is no additional water consumption due to Mounted storage Project and adequate firefighting facilities are in place.

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
7.	Noise level will be within the approved limits of 80 dB (A).The practice of acoustic plant design shall be adopted to limit noise exposure for personnel to an 8 hr time weighted average of 90 db (A).	Noise monitoring is carried out on monthly basis at various locations in the refinery. The noise levels are within the standards for most of the locations. Measures like usage of earmuffs, display of signage boards, restricting the duration of exposure etc., are followed for high noise level areas.
8.	Green belt shall be provided to mitigate the effects of fugitive emissions all around the plant in a minimum of 33% of the plant area in consultation with DFO as per CPCB guidelines.	<p>Plantation along the South boundary of the refinery has been carried out. Green belt is existing in an area of 112 acres. The industry being a brown field project, there is no adequate space available within the refinery for provision of additional green belt. Further, plantation of trees is not recommended inside the plant area due to safety considerations and development of green belt along the boundary is prohibited considering the associated security risk.</p> <p>HPCL-VR has taken up plantation of saplings in various locations of Visakhapatnam in 4 phases under Green Visakha program and completed the plantation of 6,50,000 saplings covering an area of approx..700 acres amounting to Rs 25 Crores.</p> <p>In addition to this, HPCL-VR has taken up plantation of saplings under Vanam-Manam program initiated by Andhra Pradesh State Government and completed the target plantation of 10000 saplings in Jan 2019.</p> <p>Above plantation measures, provide a green cover more than the present shortfall of greenbelt within the refinery. Further, Green belt of 67 acres is developed near the refinery under VRMP (modernization project).</p>

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
		Plantation of 26500 samplings in the vicinity of Refinery is being done in association with Greater Visakh Municipal Corporation (GVMC) is in progress
9.	The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion 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.	Rainwater harvesting facility provided for the Mounded storage facility.
10	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. Necessary approvals from Chief Controller of Explosives must be obtained before commissioning of the expansion project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.	The approval from Chief Controller of Explosives obtained for the Mounded storage facility. Updated Emergency Response and Disaster Management Plan (ERDMP) is in place to meet any emergency situation. Corporation has a comprehensive PLI policy valid till 31-03-2026 Visakh Refinery is also included in the policy.
	General Conditions:	
1.	The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and the State Government.	Noted and is complied.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted and is complied.
3.	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and as amended from time to time. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. shall be obtained. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.	Necessary approvals from Chief Inspector of Factories and Chief Controller of Explosives etc are in place and complying with the MSIHC Rules,1989 and Motor Vehicle rules.

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
4.	On-site and Off-site emergency preparedness plans shall be prepared. Approval from the nodal agency shall be obtained before commissioning the project.	ERDMP (Emergency Response and Disaster Management Plan) which is certified by PNGRB (Petroleum and Natural Gas Regulatory Board) approved third party is in place.
5.	The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noise monitoring is carried out on monthly basis at various locations in the refinery. The noise levels are within the standards for most of the locations. Measures like usage of earmuffs, display of signage boards, restricting the duration of exposure etc., are followed for high noise level areas.
6.	Proper House Keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the relevant diseases shall be carried out and the records shall be maintained properly for at least 10 years. Sufficient preventive measures shall be adopted to avoid direct exposure to emission and other Hydrocarbons etc.	Housekeeping in the Refinery is ensured on continuous basis. Regular health check-ups of all the employees in the refinery are being carried out and the records are maintained in the Occupational Health Centre. Leak Detection And Repair (LDAR) program is a continuous activity, which is taken up for identification of the sources of fugitive emissions and control of the leaks through inspection, repair and maintenance schedules.
7.	Training shall be imparted to all employees on safety and health aspects of chemicals handling, pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Training on safe handling of hazardous chemicals is imparted to refinery employees as part of Emergency Preparedness training program. Regular health check-ups of all the employees in the refinery are being carried out and the records are maintained in the Occupational Health Centre.
8.	Usage of PPEs by all employees / workers shall be ensured.	Usage of PPE is mandatory for all employees / workers in operating areas.
9.	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.	Under Technical Services Department, Process Safety & Environment (PS&E) is a separate division, which looks after the Environmental and Process safety functions.

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
		<p>This division reports to Head – Technical who in turn reports to Executive Director of the refinery.</p> <p>Refinery has a dedicated quality control laboratory for analysis of environmental parameters.</p>
10	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Complied.
11	The project proponent shall have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education of health centers, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs. CSR activities will be undertaken by involving local villages and administration.	Various developmental activities such as construction of toilet blocks, supply of furniture, supply of computers, scholarships to students, health camps, supply of diagnostic machines, etc., are taken up in schools & hospitals in the region under Corporate Social Responsibility (CSR) program
12	The implementation of the project vis-a-vis environmental action plans shall be monitored by concerned Regional Office of the Ministry/States Pollution Control Boards/Central Pollution Control Board. A six monthly compliance status report shall be submitted to monitoring agencies and displayed on the Website of the Company.	Complied.
13	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter at lease in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the	Complied

EC Compliance for LPG Mounded Storage dated 07.03.2008

S.No	EC Conditions	Compliance by HPCL-VR
	locality concerned and a copy of the same should be forwarded to the concerned Regional office of this Ministry.	
14	The date of Financial Closure and final approval of the project by the concerned authorities and the date of commencing the land development work as well as the commissioning of the project will be informed to the Ministry and its Regional Office.	Complied
15	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted
16	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Noted
17	The above conditions will be enforced inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act 1974 , the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Public Liability Insurance Act 1991, Hazardous Waste (Management & Handling) Rules, 1989/2003 and Manufacture , Storage and Import of Hazardous Chemicals 1989/2000 along with their amendments and rules.	Noted

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
	A. Special Conditions:	
1	M/s HPCL shall comply with the stipulations made in the environmental clearance accorded vide Ministry's vide letter No. J-11013/55/2003-IA II (I), dated February 03, 2004 for Clean Fuels Project and expansion from 7.5 to 10.0 MMTPA	Status of compliance to the conditions stipulated in all the ECs is being submitted to MoEF Office. The same has been uploaded on HPCL's corporate website.
2	M/s HPCL shall comply with new standards/ norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R. 186(E) dated 18 th March 2008.	HPCL-Visakh Refinery is complying with the new standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R. 186(E) dated 18.03.2008. The compliance is complete as of date and ongoing.
3	The project authorities shall submit a feasible plan which will be followed to ensure that SO ₂ emission from the refinery does not exceed the stipulated figure of 11.5 TPD at any time	<p>Being complied with.</p> <p>The measures adopted to contain the SO₂ emissions are as below:</p> <ul style="list-style-type: none"> • Two Trains of VRMP sulphur recovery unit of 360 TPD capacity each along with the tail Gas treatment unit designed to achieve >99.9% sulphur recovery. • Installation of additional FG ATU to sweeten the fuel gas for firing in the process furnaces and boilers. • Usage of treated Naptha in CPP. • Installation of FGD unit. <p>The average SO₂ emissions for the period of Apr-25 to Sept 25 is 7.68 TPD and are within the stipulated limit of 11.5 TPD.</p>
4	The company shall undertake .measures for control of dust emission during construction and traffic congestion	Various mitigation measures like water sprinkling on the roads at project sites, higher barricades around project sites, regulating the traffic near civil works of project activities, usage of RMC (Ready Mix Concrete) material etc. were taken up regularly to control dust emissions.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
5	Efforts shall be made to use gas as a fuel in the furnaces to the maximum extent possible	Fuel gas distribution system has been designed to achieve this objective and also strict operational instructions are in place to maximize fuel gas consumption.
6	The process emissions (SO ₂ , NO _x , HC, VOCs and Benzene) from various units shall conform to the standards prescribed by the AP State Pollution Control Board from time to time. At no time, the emission levels should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved	<p>Monitoring of SO₂, NO_x, CO, PM, HC, VOCs and Benzene is being done regularly in refinery premises. Online connectivity of stack emissions analyzers is established with CPCB and APPCB servers. Further, stack emission monitoring is being carried out by MoEF recognized laboratory on monthly basis.</p> <p>VOCs and Benzene within refinery premises are being monitored periodically and controlled as part of LDAR survey carried out by MoEF recognized third party.</p>
7	Ambient air quality monitoring stations, (SPM, SO ₂ , NON, H ₂ S, Mercaptan, NMHC and Benzene) should be set up in the Refinery complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment should be installed for measurement of SO ₂ , NO, CO and CO ₂ . Low NO _x burners should be installed with online analyzers	<p>Based on predominant wind direction, three CAAM stations are installed in the refinery to monitor ambient air quality parameters w.r.t SO₂, NO_x, PM₁₀, PM_{2.5}, CO, Benzene, Ammonia and Ozone. Online connectivity of these ambient air quality parameters is established with CPCB and APPCB.</p> <p>Further, manual monitoring of ambient air quality is being carried out by MoEF recognized third party laboratory on monthly basis at the CAAMS locations.</p> <p>Online connectivity of stack emission analyzers established with CPCB an APPCB servers. Low NO_x burners are installed for all the major furnaces.</p>

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
8	The proponent shall upload the status of compliance of the stipulated EC conditions, including monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant namely; SPM, RSPM, SO ₇ , NO _x (Ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain	Status of compliance to the conditions stipulated in all the ECs is being submitted to MoEF Office. The same has been uploaded on HPCL's corporate website.
9	Monitoring of fugitive emissions should be carried out as per the guidelines of CPCB by fugitive emission detectors and reports should be submitted to the Ministry's Regional Office at Bangalore. For control of fugitive emission all unsaturated hydrocarbon will be routed to the flare system and the flare system should be designed for smoke less burning	Leak Detection and Repair (LDAR) survey is being carried out regularly by MoEF recognized third party laboratory for monitoring fugitive emissions. The existing hydrocarbon flare system is designed for smokeless flaring.
10	Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage should also be provided at strategic locations. The company should use low sulphur fuel to minimize SO ₂ emission. Sulphur recovery units should have efficiency of 99.5 %. Leak Detection and Repair programme should be implemented to control HC/VOC emissions. Work zone monitoring should be carried out near the storage tanks besides monitoring of HCs/VOCs in the work zone	Hydro carbon detectors are provided in the plant and storage tank areas. Leak Detection And Repair (LDAR) program is in place for the existing refinery. Crude and light hydrocarbon products are stored in floating roof tanks with secondary seals to minimize vapor space and hence hydrocarbon emissions. Sulphur Recovery Units (SRU) with >99% Sulphur recovery efficiency are installed in the refinery.
11	The waste water should be treated in the waste water treatment plant and the treated effluent should meet the prescribed standards. Efforts should be made to recycle the treated effluent to achieve zero discharge	The influent streams to Integrated Effluent Treatment Plant (IETP) are treated and the treated effluent water is fed to RO plant and RO Reject is reused fully as Cooling water make up.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
12	The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 1989/ 2003/ 2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/ storage/ disposal of hazardous wastes	Hazardous wastes are being handled, stored and disposed off in accordance with the Hazardous & Other Waste Management Rules, 2016.
13	The company should strictly follow all the recommendation mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP) for the oil refineries	Complied.
14	The Company should take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums should be installed to minimize gaseous emissions during flaring	<p>The measures adopted by the PP to prevent fire hazards are as below:-</p> <ul style="list-style-type: none"> • Hydrocarbon detectors are provided. • Elaborative fire water network & other equipment exist inside refinery to handle fire hazards. • Overhead flare stack with KO drums is provided. <p>The following systems are in place :</p> <ul style="list-style-type: none"> •Oil Spill response plan (inside refinery) along with necessary equipment is in place. •Operational control procedures /Departmental standing Instructions (DSIs) / Plant Daily Instructions (PDIs)
15	To prevent fire and explosion at Oil and Gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material should be in place	All the facilities are designed in line with OISD (Oil Industry Safety Directorate) standards. Necessary infrastructure is in place to effectively handle any emergency.
16	Onsite and offsite DMP shall be updated to cover the additional facilities and the updated plans shall be implemented	ERDMP (Emergency Response and Disaster Management Plan) which is certified by PNGRB (Petroleum and Natural Gas Regulatory Board) approved third party is in place.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
17	Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act	Regular health check-ups of all the employees in the refinery are being carried out and the records are maintained in the Occupational Health Centre.
18	Greenbelt should be developed to mitigate the effect of fugitive emission all around the plant in a minimum 33% plant area in consultation with DFO as per CPCB guidelines	<p>Plantation along the South boundary of the refinery has been carried out. Green belt is existing in an area of 112 acres. The industry being a brown field project, there is no adequate space available within the refinery for provision of additional green belt. Further, plantation of trees is not recommended inside the plant area due to safety considerations and development of green belt along the boundary is prohibited considering the associated security risk.</p> <p>HPCL-VR has taken up plantation of saplings in various locations of Visakhapatnam in 4 phases under Green Visakha program and completed the plantation of 6,50,000 saplings covering an area of approx..700 acres amounting to Rs 25 Crores.</p> <p>In addition to this, HPCL-VR has taken up plantation of saplings under Vanam-Manam program initiated by Andhra Pradesh State Government and completed the target plantation of 10000 saplings in Jan 2019.</p> <p>Above plantation measures, provide a green cover more than the present shortfall of greenbelt within the refinery. Further, Green belt of 67 acres is developed near the refinery under VRMP (modernization project).</p>

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
		Plantation of 26500 samplings in the vicinity of Refinery is being done in association with Greater Visakh Municipal Corporation (GVMC) is in progress.
19	The Company should undertake measures for rain water harvesting to recharge the ground water and minimize fresh water consumption	Rain water harvesting facilities for the administrative buildings (Blocks-A and C) and for control room & sub stations of DHT project are in place.
20	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Various developmental activities such as construction of toilet blocks, supply of furniture, supply of computers, scholarships to students, health camps, supply of diagnostic machines etc., are taken up in schools & hospitals in the region under Corporate Social Responsibility (CSR) program.
B. GENERAL CONDITIONS		
1	The project authorities must-strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and the State Government and any other statutory body	The Refinery is currently complying with the conditions stipulated in CFO No:APPCB/VSP/VSP/72/CFO/HO/1957 dated 30.11.2022 and task force directives which were identified by APPCB vide letter no.702/APPCB/UH-II/TF/VSP/2020-295 dated 12.08.2021.
2	No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and Forests. In case of deviations or alternations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry	Noted and is complied.
3	At no time, the emissions shall go beyond the prescribed standards. In the event of failure of any pollution control system, the respective facilities should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved. Provision of adequate height of stack attached to DG sets & flare is to be done	Process emissions are through stack flue gases only. Online connectivity of stack emission analyzers established with CPCB an APPCB servers. Analysis of stack flue gases is being carried out by MoEF recognized third party laboratory on monthly basis and being submitted to APPCB as per the requirement.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
		Process furnaces, boilers and gas turbines are provided with tall stacks (about 60 m) for better dispersion of flue gases.
4	Waste water shall be properly collected and treated so as to conform to the standards prescribed under EP Act & Rules and mentioned in the Consents provided by the relevant SPCB	A new Integrated Effluent Treatment Plant (IETP) commissioned under refinery expansion project (VRMP) and all the waste water from the refinery is being properly collected and treated as per prescribed standard.
5	The overall noise levels in and around the premises shall be limited within the prescribed standards (75 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Noise monitoring is carried out on monthly basis at various locations in the refinery. The noise levels are within the standards for most of the locations. Measures like usage of earmuffs, display of signage boards, restricting the duration of exposure etc., are followed for high noise level areas.
6	The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the expansion project, if required. Requisite On-site and Off-site Disaster Management Plans.will be prepared and implemented	Necessary approvals from Chief Inspector of Factories and Chief Controller of Explosives etc are in place and complying with the MSIHC Rules,1989. ERDMP (Emergency Response and Disaster Management Plan) which is certified by PNGRB (Petroleum and Natural Gas Regulatory Board) approved third party is in place.
7	The project authorities will provide adequate funds as non-recurring and recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes	Complied.
8	The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water	Rain water harvesting facilities for the administrative buildings (Blocks-A and C) and for control room & sub stations of DHT project are in place.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
9	The stipulated conditions will be monitored by the concerned Regional Office of this Ministry / Central Pollution Control Board! State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly. It will also be displayed on the Website of the Company	Complied
10	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB	Being complied for the current expansion project.
11	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 put up on the website of the Company by the proponent	The copy of clearance letter has been sent to the concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the Local NGO. Clearance letter of the DHT project is uploaded on HPCL website.
12	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board! Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in . This should 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 should be forwarded to the concerned Regional office of this Ministry	The advertisement was published in the newspapers; The Hindu, Deccan Chronicle and Sakshi on 18.09.2009 and copies were submitted to the RO, MoEF&CC.

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
13	The environmental statement for each financial year ending 31st March in Form-V as is 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 alongwith the status of compliance of EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail	Complied. The latest Environmental statement for 2024-25 was submitted to APPCB vide letter dated 23.09.2025 and uploaded in the corporate website.
14	A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive	<p>Under Technical Services Department, Process Safety & Environment (PS&E) is a separate division, which looks after the Environmental and Process safety functions.</p> <p>This division reports to Head – Technical who in turn reports to Executive Director of the refinery.</p> <p>Refinery has a dedicated quality control laboratory for analysis of environmental parameters under the supervision of competent technical personnel.</p>
15	The 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 start of the project	Complied
16	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted
17	The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner	Noted
18	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, Second Floor, Trikot-I, Bhikaji Cama Place, New Delhi-110066, if preferred	Noted

Compliance to DHT EC J-11011/408/2009-IA II (I) dated 02.09.2009

S.No	EC Conditions	Compliance by HPCL-VR
	within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997	
19	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 1989/ 2003/ 2008 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules	Noted.

Compliance to SPM EC F.No. 10-47/2009-IA-III dated 20.10.2009

S.No.	EC Conditions	Compliance by HPCL-VR
6	Special Conditions:	
i	Pipeline will be laid by the conventional open cut method. The tunnel will be constructed by conventional control blasting technique. No chemical shall be used for blasting	Complied.
ii	A monitoring system shall be provided for Single Point Mooring which will monitor the position of tanker or real time basis including tanker approach speed.	Telemetry system is provided for monitoring the position of tanker.
iii	Mitigative measures shall be taken to prevent SPM collusion.	Close monitoring of tankers and SPM through telemetry system is ensured to avoid any collisions.
iv	Oil Spill Contingency Plan shall be put in place.	Oil Spill Contingency Plan vetted by Indian Coast Guard is in place for SPM facility.
v	All the recommendations as mentioned in the EIA, DMP and Risk Assessment shall be strictly complied	Complied.
vi	There shall be no temporary/permanent camp sites in CRZ area.	Noted
vii	Any offshore vessel discharge shall comply the norms of MARPOL.	Being complied
viii	Waste water generated shall be properly treated and reused, with the provision of oil water separator system.	Waste water is not generated at SPM.
ix	Oily waste to be stored in paved dedicated storage area and shall be disposed to authorized oily recyclers.	In case of oily waste generation, the same shall be handled as per Oil Spill Contingency Plan of SPM facility.
x	Crude oil storage tank from area shall be impervious lined and concrete paved with dyke walls.	Crude Oil storage tanks at Refinery are impervious lined and concrete paved with dyke walls.
xi	Under Corporate Social Responsibilities (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.	Complied.

S.No.	EC Conditions	Compliance by HPCL-VR
7	General Conditions:	
i	The construction of the structure should be undertaken as per the plan approved by the concerned local authorities/Local administration, meticulously confirming to the existing local and central rules and regulations including the provisions of Coastal Regulation Zone notification dated 19.12.1991 and the approved Coastal Zone Management Plan of Andhra Pradesh.	Complied.
ii	In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment and Forest.	Noted
iii	The Ministry reserve right to revoke this clearance, if any, of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted
iv	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection activities.	Noted
iv	Full support should be extended to the officer of this Ministry's regional office at Bangalore and the officials of the central and Andhra Pradesh Pollution Control Board by the project proponents during their inspection for monitoring purpose, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Being complied.
8	These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution) Act. 1974, The Air (Prevention and Control of Pollution) Act 198, The Environment (Protection) Act. 1986, The Public Liability-(Insurance) Act. 1991, and Municipal Solid Waste (Management and Handline) Rules. 2000 including the amendments and rules made thereafter.	Noted

S.No.	EC Conditions	Compliance by HPCL-VR
9	All statutory clearance such as approvals for storage of diesel from chief controller of explosive, fire department and civil aviation department from height point of view, forest conservation act,1980 and Wildlife (Protection) Act,1972 etc. shall be obtained as applicable by the project proponents from the respective competent authorities.	Noted
10	The project proponent should advertise in at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of the of the clearance letters are available with the Andhra Pradesh Pollution Board and may also be seen on the website of the Ministry of the Environment and forests at https://www.envfor.nc.in . The Advertisement should be made with in 10 days from the date of the receipt of the clearance and a copy of the same shall be forwarded to the Regional office of this Ministry at Bangalore.	Complied
11	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	Final Order of Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 is not applicable to this project.
12	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Noted.
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla 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 website of the company by the proponent	Noted and Complied

S.No.	EC Conditions	Compliance by HPCL-VR
14	<p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF at Bangalore, the respective Zonal Office of CPCB and the APPCB.</p> <p>The criteria pollutant levels namely; SPM, RSPM, SOA, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Shall be complied by including SPM EC compliance status in six monthly EC compliance reports of HPCL-Visakh Refinery which are being uploaded in the corporate website besides submitting to MoEF office, Vijayawada regularly.</p>
15	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data both in hard copies as well as by e-mail) to the respective Regional Office of MoEF at Bangalore, the respective Zonal Office of CPCB and the APPCB.</p>	<p>Shall be complied by including SPM EC compliance status in six monthly EC compliance reports of HPCL-Visakh Refinery which are being submitted to MoEF office, Vijayawada regularly.</p>
16	<p>The environmental statement for each financial year ending 31st March in Form-V as is 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 EC conditions and shall also be sent to the Regional Office of MoEF at Bangalore by e-mail.</p>	<p>Being Complied. Annual Environment Statement for HPCL-Visakh Refinery is being submitted to APPCB for year 2024-25 on 23.09.2025</p>



SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Issued to:

**M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	01.04.2025 to 30.04.2025	Date of reporting	07-05-2025
Report No.	SVELC/HPCL/25-04/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 26No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	4 of 6
Discipline	Chemical	Group	Atmospheric Pollution

S.N o.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions						
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V
1.	CDU-II	11-F-01	29.04.2025	60	2.55	5.104	314	2.9	35.1	351	61	14	16	BDL	BDL
2.	CDU-II	12-F-01	29.04.2025	60	1.60	2.01	204	1.8	21.1	324	58	04	08	BDL	BDL
3.	CDU-III	42-F-01	30.04.2025	60	2.74	5.896	171	2.8	29.5	325	65	14	18	BDL	BDL
4.	CDU-III	42-F-02	30.04.2025	60	1.59	1.986	182	2.2	33.6	345	62	11	06	BDL	BDL
5.	CDU-III	46-F-01	30.04.2025	60	1.89	2.806	164	3.3	43.5	349	66	16	18	BDL	BDL
6.	CDU-IV	501-F-101	02.04.2025	85	3.0	7.069	211	3.8	28.4	344	63	14	19	BDL	BDL
7.	FCCU-I	4-F-51	08.04.2025	60	2.18	3.733	174	1.6	6.9	38.2	59	12	18	BDL	BDL
8.	FCCU-II	14-F-01	10.04.2025	60	1.35	1.431	160	1.8	6.7	35.3	55	06	10	BDL	BDL
9.	DHDS	60-F-01	23.04.2025	60	1.34	1.410	171	3.2	30.1	151	62	10	15	BDL	BDL
10.	NHT	72-F-01/02	24.04.2025	60	1.50	1.767	202	4.2	5.2	32	46	22	12	-	-
11.	CCR	74-F-1/2/3/4	24.04.2025	60	3.37	8.923	165	2.5	5.8	30	37	21	11	-	-
12.	CPP	HRSG-III	15.04.2025	60	3.00	7.065	137	8.0	5.3	23	31	17	08	BDL	BDL
13.	CPP	HRSG-IV	15.04.2025	60	3.00	7.065	141	7.5	7.1	20	38	15	03	BDL	BDL
14.	CPP	HRSG-V	16.04.2025	60	3.00	7.065	157	9.0	6.8	27	43	19	23	BDL	BDL
15.	CPP	HRSG-VI	16.04.2025	60	3.00	7.065	151	8.1	6.2	24	47	18	14	BDL	BDL
16.	PP-1	IBH	02.04.2025	60	2.40	4.525	185	2.2	18.4	346	46	14	23	BDL	BDL
17.	DHT	90-F-01/02	03.04.2025	60	3.00	7.309	210	3.8	21.6	178	51	23	15	BDL	BDL
18.	FCC NHT	75-F-01	09.04.2025	60	1.01	0.801	154	1.8	5.1	34	51	13	17	-	-
19.	FCC NHT	75-F-51	09.04.2025	60	1.35	1.430	150	2.8	5.4	28	66	18	26	-	-
20.	DHT -HGU	91-F-01	03.04.2025	60	1.30	1.326	160	2.0	2.9	36	46	11	06	-	-
21.	FCCU-I	FGD-I	08.04.2025	60	1.76	2.431	51	5.2	16.1	38	59	16	14	BDL	BDL
22.	FCCU-II	FGD-II	10.04.2025	60	2.00	3.142	69	6.0	21.1	39	58	17	17	BDL	BDL

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
FCC Regenerators	--	--	350	--	150	--	15



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 Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad-500072
 ☎ +91-9440338628, +91-7207664444 ✉ svenviro_labs@yahoo.co.in, info@svenviro.com www.svensiro.com
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Issued to:

**M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
 VAISAKHA REFINERY, MALKAPURAM,
 VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	01.04.2025 to 30.04.2025	Date of reporting	07-05-2025
Report No.	SVELC/HPCL/25-04/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 26No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required,	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis.	IS: 11255	Page No.	5 of 6
Discipline	Chemical	Group	Atmospheric Pollution

S.N e.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht. m	Dia. m	Area m ²	Temp °C	Velo- city m/s	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
23.	FCHCU	503-F-101	01.04.2025	76	3.8	11.3	140	3.2	24.9	332	48	04	08	-	BDL	BDL
24.	VRMP HGU Train – II	505-LZ-2201	23.04.2025	60	3.5	9.62	204	3.4	4.9	349	54	17	19	-	-	-
25.	VRMP SRU Train – I	507-LZ-1301	22.04.2025	60	1.5	1.77	298	3.9	2.7	26.5	33	13	17	6.0	-	-
26.	DHT SRU	92-M-22	17.04.2025	60	1.50	1.767	190	3.7	5.7	33	51	17	20	7.8	--	--

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
FCC Regenerators	--	--	350	--	150	--	15

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VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	06.05.2025 to 30.05.2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	5 of 7
Discipline	Chemical	Group	Atmospheric Pollution

S.N o.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V	
1.	CDU-II	11-F-01	08.05.2025	60	2.55	5.104	322	3.2	36.5	355	63	16	18	BDL	BDL	
2.	CDU-II	12-F-01	08.05.2025	60	1.60	2.01	207	2.0	23.8	330	61	06	11	BDL	BDL	
3.	CDU-III	42-F-01	07.05.2025	60	2.74	5.896	175	3.0	31.1	329	67	16	22	BDL	BDL	
4.	CDU-III	42-F-02	07.05.2025	60	1.59	1.986	184	2.4	35.3	349	65	13	09	BDL	BDL	
5.	CDU-III	46-F-01	07.05.2025	60	1.89	2.806	169	3.5	45.1	352	68	18	21	BDL	BDL	
6.	CDU-IV	501-F-101	15.05.2025	85	3.0	7.069	214	4.0	29.2	348	65	16	20	BDL	BDL	
7.	FCCU-I	4-F-51	21.05.2025	60	2.18	3.733	178	1.9	7.2	36.5	55	10	16	BDL	BDL	
8.	FCCU-II	14-F-01	29.05.2025	60	1.35	1.431	158	1.5	6.1	33.5	52	04	09	BDL	BDL	
9.	DHDS	60-F-01	27.05.2025	60	1.34	1.410	169	3.1	29.5	148	60	09	13	BDL	BDL	
10.	NHT	72-F-01/02	13.05.2025	60	1.50	1.767	206	4.5	5.6	34	48	24	14	-	-	
11.	CCR	74-F-1/2/3/4	13.05.2025	60	3.37	8.923	169	2.8	6.1	32	39	22	13	-	-	
12.	CPP	HRSG-III	22.05.2025	60	3.00	7.065	141	8.3	5.5	25	34	19	10	BDL	BDL	
13.	CPP	HRSG-IV	22.05.2025	60	3.00	7.065	145	7.8	7.6	23	41	17	05	BDL	BDL	
14.	CPP	HRSG-V	20.05.2025	60	3.00	7.065	161	9.3	7.2	29	45	21	26	BDL	BDL	
15.	CPP	HRSG-VI	20.05.2025	60	3.00	7.065	153	8.3	6.5	25	49	20	16	BDL	BDL	
16.	PP-1	IBH	15.05.2025	60	2.40	4.525	188	2.4	19.2	349	48	16	25	BDL	BDL	
17.	DHT	90-F-01/02	28.05.2025	60	3.00	7.309	214	4.2	23.5	180	53	25	17	BDL	BDL	
18.	FCC NHT	75-F-01	14.05.2025	60	1.01	0.801	158	2.3	5.4	38	52	15	19	-	-	
19.	FCC NHT	75-F-51	14.05.2025	60	1.35	1.430	147	2.6	5.1	26	63	16	23	-	-	
20.	DHT-HGU	91-F-01	28.05.2025	60	1.30	1.326	157	1.7	2.7	33	44	10	04	-	-	
21.	FCCU-I	FGD-I	21.05.2025	60	1.76	2.431	53	4.9	15.4	36	57	13	10	BDL	BDL	
22.	FCCU-II	FGD-II	12.05.2025	60	2.00	3.142	65	5.7	19.2	43	61	19	22	BDL	BDL	

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
FCC Regenerators	--	--	350	--	150	--	15



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VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	06.05.2025 to 30.05.2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	6 of 7
Discipline	Chemical	Group	Atmospheric Pollution

S.No.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht.	Dia.	Area	Temp	Velocity	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
				m	m	m ²	°C	m/s	mg/nm ³							
23.	FCHCU	503-F-101	27.05.2025	76	3.8	11.3	136	3.0	22.9	328	46	06	09	-	BDL	BDL
24.	VRMP HGU Train - I	505-LZ-1201	30.05.2025	60	3.5	9.62	176	2.7	2.0	30.1	55	18	12	-	BDL	BDL
25.	VRMP SRU Train - I	507-LZ-1301	06.05.2025	60	1.5	1.77	295	3.6	3.2	28.5	36	15	20	6.0	-	-
				Fuel Type	SO ₂	NO _x	PM	CO			Ni & V	H ₂ S				
Furnaces and CPP				Gas	50	350	10	150			--	--				
				Liquid	1700	450	100	200			5	--				
FCC Regenerators				--	--	350	--	150			--	15				

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	03.06.2025 to 30.06.2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	5 of 7
Discipline	Chemical	Group	Atmospheric Pollution

Sl. No.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions						
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V
1.	CDU-II	11-F-01	19.06.2025	60	2.55	5.104	318	3.0	34.5	351	60	14	17	BDL	BDL
2.	CDU-II	12-F-01	19.06.2025	60	1.60	2.01	204	2.3	36.1	333	63	07	13	BDL	BDL
3.	CDU-III	42-F-01	18.06.2025	60	2.74	5.896	171	3.3	33.4	337	71	18	25	BDL	BDL
4.	CDU-III	42-F-02	18.06.2025	60	1.59	1.986	188	2.8	39.5	353	69	15	11	BDL	BDL
5.	CDU-III	46-F-01	18.06.2025	60	1.89	2.806	165	3.2	41.5	350	64	15	18	BDL	BDL
6.	CDU-IV	501-F-10L	30.06.2025	85	3.0	7.069	210	3.8	27.6	344	62	13	16	BDL	BDL
7.	FCCU-I	4-F-51	12.06.2025	60	2.18	3.733	174	1.7	6.8	33.5	52	08	12	BDL	BDL
8.	FCCU-II	14-F-01	17.06.2025	60	1.35	1.431	152	1.3	5.8	31.1	48	06	10	BDL	BDL
9.	DHDS	60-F-01	05.06.2025	60	1.34	1.410	175	3.7	38.5	152	63	11	14	BDL	BDL
10.	NHT	72-F-01/02	25.06.2025	60	1.50	1.767	212	5.1	6.2	36	44	21	13	-	-
11.	CCR	74-F-1/2/3/4	25.06.2025	60	3.37	8.923	166	2.6	5.8	30	36	20	09	-	-
12.	CPP	HRSG-III	03.06.2025	60	3.00	7.065	138	8.1	5.9	28	38	22	12	BDL	BDL
13.	CPP	HRSG-IV	03.06.2025	60	3.00	7.065	141	7.5	7.2	21	38	15	03	BDL	BDL
14.	CPP	HRSG-V	10.06.2025	60	3.00	7.065	155	10.1	8.1	33	49	24	30	BDL	BDL
15.	CPP	HRSG-VI	10.06.2025	60	3.00	7.065	149	8.0	6.1	22	45	18	13	BDL	BDL
16.	PP-I	IBH	24.06.2025	60	2.40	4.525	184	2.2	18.1	340	48	16	28	BDL	BDL
17.	DHT	90-F-01/02	05.06.2025	60	3.00	7.309	220	4.8	26.6	183	55	52	19	BDL	BDL
18.	FCC NHT	75-F-01	26.06.2025	60	1.01	0.801	162	2.5	5.9	30	58	17	22	-	-
19.	FCC NHT	75-F-51	26.06.2025	60	1.35	1.430	150	2.2	4.4	34	60	13	20	-	-
20.	DHT-HGU	91-F-01	11.06.2025	60	1.30	1.326	155	1.5	4.3	34	43	08	02	-	-
21.	FCCU-I	FGD-I	12.06.2025	60	1.76	2.431	57	4.3	12.8	41	54	11	07	BDL	BDL
22.	FCCU-II	FGD-II	17.06.2025	60	2.00	3.142	62	5.3	13.6	40	59	17	20	BDL	BDL

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
FCC Regenerators	--	--	350	--	150	--	15

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CIN: U74909AP2025PTC119098



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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	03.06.2025 to 30.06.2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	6 of 7
Discipline	Chemical	Group	Atmospheric Pollution

Sl. No.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht.	Dia.	Area	Temp	Velocity	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
				m	m	m ²	°C	m/s	mg/nm ³							
23.	FCHCU	503-F-101	30.06.2025	76	3.8	11.3	131	2.7	25.6	324	43	08	13	-	BDI	BDL
24	VRMP HGU Train - II	505-LZ-2201	11.06.2025	60	3.5	9.62	205	3.4	2.9	344	66	11	19	-	-	-
25	VRMP SRU Train - I	507-LZ-1301	04.06.2025	60	1.5	1.77	290	3.3	3.0	26.7	28	4.5	17	5.5	-	-
				Fuel Type		SO ₂	NO _x	PM	CO			Ni & V	H ₂ S			
Furnaces and CPP				Gas		50	350	10	150			--	--			
				Liquid		1700	450	100	200			5	--			
FCC Regenerators				--		--	350	--	150			--	15			

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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	01.07.2025 to 31.07.2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 27No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	5 of 7
Discipline	Chemical	Group	Atmospheric Pollution

S.N. No.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions						
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V
1.	CDU-II	11-F-01	31.07.2025	60	2.55	5.104	314	2.5	32.1	345	57	11	15	BDL	BDL
2.	CDU-II	12-F-01	31.07.2025	60	1.60	2.01	201	2.1	34.2	328	60	05	10	BDL	BDL
3.	CDU-III	42-F-01	15.07.2025	60	2.74	5.896	165	3.0	30.6	335	68	16	23	BDL	BDL
4.	CDU-III	42-F-02	15.07.2025	60	1.59	1.986	185	3.2	41.6	358	72	18	14	BDL	BDL
5.	CDU-III	46-F-01	15.07.2025	60	1.89	2.806	161	2.7	35.2	342	61	13	16	BDL	BDL
6.	CDU-IV	501-F-101	29.07.2025	85	3.0	7.069	205	3.7	25.1	340	58	11	14	BDL	BDL
7.	FCCU-I	4-F-51	23.07.2025	60	2.18	3.733	170	2.0	7.5	31.2	49	06	10	BDL	BDL
8.	FCCU-II	14-F-01	17.07.2025	60	1.35	1.431	148	1.1	4.3	26.4	45	04	07	BDL	BDL
9.	DHDS	60-F-01	01.07.2025	60	1.34	1.410	171	3.5	36.6	147	59	10	13	BDL	BDL
10.	NHT	72-F-01/02	03.07.2025	60	1.50	1.767	212	5.1	6.2	36	44	21	13	-	-
11.	CCR	74-F-1/2/3/4	03.07.2025	60	3.37	8.923	161	2.3	5.5	27	33	17	07	-	-
12.	CPP	HRSG-III	30.07.2025	60	3.00	7.065	134	7.4	5.6	25	35	20	09	BDL	BDL
13.	CPP	HRSG-IV	30.07.2025	60	3.00	7.065	138	6.8	6.7	17	34	13	06	BDL	BDL
14.	CPP	HRSG-V	10.07.2025	60	3.00	7.065	151	9.6	7.5	31	45	22	28	BDL	BDL
15.	CPP	HRSG-VI	10.07.2025	60	3.00	7.065	143	6.0	5.7	50	41	15	10	BDL	BDL
16.	PP-1	IBH	22.07.2025	60	2.40	4.525	178	2.5	16.5	334	46	13	25	BDL	BDL
17.	DHT	90-F-01/02	08.07.2025	60	3.00	7.309	214	4.5	25.8	176	52	48	17	BDL	BDL
18.	FCC NHT	75-F-01	02.07.2025	60	1.01	0.801	158	2.3	5.6	27	55	14	20	-	-
19.	FCC NHT	75-F-51	02.07.2025	60	1.35	1.430	143	1.8	4.1	32	57	11	17	-	-
20.	DHT -HGU	91-F-01	08.07.2025	60	1.30	1.326	150	1.9	4.7	36	45	10	05	-	-
21.	FCCU-I	FGD-I	23.07.2025	60	1.76	2.431	55	4.1	12.4	37	52	08	03	BDL	BDL
22.	FCCU-II	FGD-II	17.07.2025	60	2.00	3.142	57	4.9	11.2	39	55	13	15	BDL	BDL

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	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
CC Regenerators	--	--	350	--	150	--	15

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PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





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Issued to:

M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	01.07.2025 to 31.07.2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 27No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	6 of 7
Discipline	Chemical	Group	Atmospheric Pollution

Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
			Ht.	Dia.	Area	Temp	Velo-city	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
			m	m	m ²	°C	m/s								
FCHICU	503-F-101	22.07.2025	76	3.8	11.3	127	2.5	23.1	318	41	06	12	-	BDL	BDL
VRMP HGU Train - II	505-LZ-2201	16.07.2025	60	3.5	9.62	201	3.2	2.6	340	62	09	17	-	BDL	BDL
VRMP HGU Train - I	505-LZ-1201	16.07.2025	60	3.5	9.62	166	2.4	1.8	27.5	51	16	10	-	BDL	BDL
VRMP SRU Train - I	507-LZ-1301	24.07.2025	60	1.5	1.77	284	3.7	3.3	24.3	25	3.9	15	5.3	-	-
VRMP SRU Train - II	507-LZ-2301	24.07.2025	60	1.5	1.77	306	4.1	2.9	35.6	75	14	21	7.8	-	-

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
Regenerators	--	--	350	--	150	--	15

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Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	05.08.2025 to 28.08.2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	5 of 7
Discipline.	Chemical	Group	Atmospheric Pollution

S.N o.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions						
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V
1.	CDU-II	11-F-01	21.08.2025	60	2.55	5.104	309	2.2	35.2	321	61	13	18	BDL	BDL
2.	CDU-II	12-F-01	21.08.2025	60	1.60	2.01	194	2.7	36.1	314	64	08	14	BDL	BDL
3.	CDU-III	42-F-01	19.08.2025	60	2.74	5.896	170	3.5	35.4	328	64	12	19	BDL	BDL
4.	CDU-III	42-F-02	19.08.2025	60	1.59	1.986	191	4.1	37.5	332	68	14	11	BDL	BDL
5.	CDU-III	46-F-01	19.08.2025	60	1.89	2.806	155	2.2	37.1	327	63	10	15	BDL	BDL
6.	CDU-IV	501-F-10✓	20.08.2025	85	3.0	7.069	197	3.3	28.8	313	61	14	18	BDL	BDL
7.	FCCU-I	4-F-51	12.08.2025	60	2.18	3.733	176	2.8	7.7	26.7	64	03	10	BDL	BDL
8.	FCCU-II	14-F-01	07.08.2025	60	1.35	1.431	155	1.7	5.9	23.1	63	08	12	BDL	BDL
9.	DHDS	60-F-01	05.08.2025	60	1.34	1.410	180	4.2	40.3	153	66	13	17	BDL	BDL
10.	NHT	72-F-01/02	26.08.2025	60	1.50	1.767	220	5.9	6.9	33.1	41	28	15	-	-
11.	CCR	74-F-1/2/3/4	26.08.2025	60	3.37	8.923	173	3.0	6.2	32	40	21	11	-	-
12.	CPP	HRSG-III	06.08.2025	60	3.00	7.065	142	6.8	5.1	29	36	17	05	BDL	BDL
13.	CPP	HRSG-IV	06.08.2025	60	3.00	7.065	131	6.2	7.2	23	37	16	09	BDL	BDL
14.	CPP	HRSG-V	13.08.2025	60	3.00	7.065	142	8.3	6.8	26	38	19	23	BDL	BDL
15.	CPP	HRSG-VI	13.08.2025	60	3.00	7.065	150	5.4	6.2	28	36	18	14	BDL	BDL
16.	PP-1	1BH	20.08.2025	60	2.40	4.525	169	3.7	15.2	311	40	12	20	BDL	BDL
17.	DHT	90-F-01/02	22.08.2025	60	3.00	7.309	187	4.1	26.1	183	47	42	13	BDL	BDL
18.	FCC NHT	75-F-01	28.08.2025	60	1.01	0.801	163	2.9	6.8	32	59	11	25	-	-
19.	FCC NHT	75-F-51	28.08.2025	60	1.35	1.430	155	2.4	4.9	38	52	14	22	-	-
20.	DHT -HGU	91-F-01	22.08.2025	60	1.30	1.326	142	2.1	5.5	43	49	16	09	-	-
21.	FCCU-I	FGD-I	12.08.2025	60	1.76	2.431	51	3.8	9.1	43	53	06	02	BDL	BDL
22.	FCCU-II	FGD-II	07.08.2025	60	2.00	3.142	54	5.7	8.4	47	52	09	18	BDL	BDL
				Fuel Type		SO ₂	NO _x	PM	CO	Ni & V	H ₂ S				
Furnaces and CPP				Gas		50	350	10	150	--	--				
				Liquid		1700	450	100	200	5	--				
FCC Regenerators				--			350	--	150	--	15				

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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	01.07.2025 to 31.07.2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 27No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	6 of 7
Discipline	Chemical	Group	Atmospheric Pollution

S.No	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht.	Dia.	Area	Temp	Velocity	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
				m	m	m ²	°C	m/s								
23.	FCHCU	503-F-101	14.08.2025	76	3.8	11.3	119	3.0	28.8	325	52	7.3	15	-	BDL	BDL
24.	VRMP HGU Train – II	505-LZ-2201	05.08.2025	60	3.5	9.62	188	4.6	6.3	329	58	07	13	-	BDL	BDL
25.	VRMP SRU Train – II	507-LZ-2301	08.08.2025	60	1.5	1.77	294	3.7	2.4	26.1	27.1	18	19	6.1	-	-
				Fuel Type	SO ₂	NO _x	PM	CO						Ni & V	H ₂ S	
Furnaces and CPP				Gas	50	350	10	150						--	--	
				Liquid	1700	450	100	200						5	--	
FCC Regenerators				--	--	350	--	150						--	15	


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VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	02.09.2025 to 30.09.2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/04		
Sample particulars	Fuel Gas Analysis, No. of Samples – 25No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	5 of 7
Discipline	Chemical	Group	Atmospheric Pollution

S.No.	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions						
				Ht. m	Dia. m	Area m ²	Temp °C	Velocity m/s	PM	SO ₂	NO _x	CO	HC	Ni	V
1.	CDU-II	11-F-01	18-09-2025	60	2.55	5.104	317	2.5	41.1	332	67	16	22	BDL	BDL
2.	CDU-II	12-F-01	18-09-2025	60	1.60	2.01	201	3.0	37.8	329	61	11	16	BDL	BDL
3.	CDU-III	42-F-01	10-09-2025	60	2.74	5.896	178	3.3	32.1	317	58	08	17	BDL	BDL
4.	CDU-III	42-F-02	10-09-2025	60	1.59	1.986	186	3.7	34.6	326	65	12	15	BDL	BDL
5.	CDU-III	46-F-01	10-09-2025	60	1.89	2.806	150	2.8	40.3	319	60	15	13	BDL	BDL
6.	CDU-IV	501-F-101	09-09-2025	85	3.0	7.069	193	4.0	32.3	306	57	11	16	BDL	BDL
7.	FCCU-I	4-F-51	23-09-2025	60	2.18	3.733	170	3.3	8.4	24.6	62	09	12	BDL	BDL
8.	FCCU-II	14-F-01	24-09-2025	60	1.35	1.431	159	2.2	5.1	20.1	65	07	09	BDL	BDL
9.	DHDS	60-F-01	04-09-2025	60	1.34	1.410	176	5.5	37.6	159	62	10	15	BDL	BDL
10.	NHT	72-F-01/02	17-09-2025	60	1.50	1.767	211	6.3	8.2	32	44	25	11	-	-
11.	CCR	74-F-1/2/3/4	17-09-2025	60	3.37	8.923	180	3.7	5.5	34	47	22	13	-	-
12.	CPP	HRSG-III	11-09-2025	60	3.00	7.065	135	6.2	5.6	25	31	19	08	BDL	BDL
13.	CPP	HRSG-IV	11-09-2025	60	3.00	7.065	126	5.8	5.7	20	34	17	06	BDL	BDL
14.	CPP	HRSG-V	30-09-2025	60	3.00	7.065	137	7.5	6.1	23	36	21	20	BDL	BDL
15.	CPP	HRSG-V1	25-09-2025	60	3.00	7.065	144	4.7	5.4	26	31	16	10	BDL	BDL
16.	PP-1	IBH	04-09-2025	60	2.40	4.525	161	3.2	11.6	289	36	09	16	BDL	BDL
17.	DHT	90-F-01/02	25-09-2025	60	3.00	7.309	180	4.7	22.5	179	52	36	11	BDL	BDL
18.	FCC NHT	75-F-01	16-09-2025	60	1.01	0.801	159	2.2	6.3	27	54	08	21	-	-
19.	FCC NHT	75-F-51	16-09-2025	60	1.35	1.430	147	1.6	4.2	34	46	11	18	-	-
20.	DHT -HGU	91-F-01	09-09-2025	60	1.30	1.326	136	2.8	5.1	36	41	13	12	-	-
21.	FCCU-I	FGD-I	23-09-2025	60	1.76	2.431	55	4.4	8.3	43	49	10	05	BDL	BDL
22.	FCCU-II	FGD-II	24-09-2025	60	2.00	3.142	59	5.2	7.9	44	52	11	15	BDL	BDL

	Fuel Type	SO ₂	NO _x	PM	CO	Ni & V	H ₂ S
Furnaces and CPP	Gas	50	350	10	150	--	--
	Liquid	1700	450	100	200	5	--
FCC Regenerators	--	--	350	--	150	--	15

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	02.09.2025 to 30.09.2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/05		
Sample particulars	Fuel Gas Analysis, No. of Samples – 27No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Stack Kit, Make: Lata Envirotech,		
Test required	Temperature, Velocity, PM, SO ₂ , NO _x , HC, Co, H ₂ S, Ni & V		
Method of analysis	IS: 11255	Page No.	6 of 7
Discipline	Chemical	Group	Atmospheric Pollution

Sl.No	Unit	Stack Type	Date of Monitoring	Stack Details					Stack Emissions							
				Ht.	Dia.	Area	Temp	Velocity	PM	SO ₂	NO _x	CO	HC	H ₂ S	Ni	V
				m	m	m ²	°C	m/s								
23.	FCHCU	503-F-101	30-09-2025	76	3.8	11.3	112	2.6	26.1	311	56	6.8	11	-	BDL	BDL
24.	VRMP HGU Train – II	505-LZ-2201	02-09-2025	60	3.5	9.62	188	4.6	7.4	320	55	09	16	-	BDL	BDL
25.	VRMP SRU Train – II	507-LZ-2301	03-09-2025	60	1.5	1.77	271	4.1	2.9	25.2	25.4	15	22	5.2	-	-
26.	DHT SRU	92-M-22	03-09-2025	60	1.50	1.76	182	3.2	5.3	29	55	19	17	6.7	--	--
				Fuel Type	SO ₂	NO _x	PM	CO		Ni & V	H ₂ S					
Furnaces and CPP				Gas	50	350	10	150		--	--					
				Liquid	1700	450	100	200		5	--					
FCC Regenerators				--	--	350	--	150		--	--					

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SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	11 th April 2025	Date of reporting	07-05-2025
Report No.	SVELC/HPCL/25-04/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024, APM 860, SLNo. 556 DTC 2024, APM 860, SLNo. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024, APM 154, SLNo. 474 DTC 2024, APM 154, SLNo. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 6
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	71	73	67	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	30	28	24	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	19	15	13	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	23	20	16	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	11	08	06	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.38	0.30	0.25	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.2	4.3	2.5	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.25	0.28	0.18	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annau	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annau	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified

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LIMITS AND METHOD OF ANALYSIS

S.No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

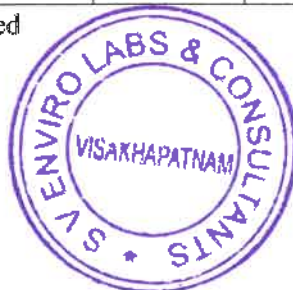
Date of Monitoring	09 th May 2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	73	77	69	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	33	30	27	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	21	17	15	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	26	22	19	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	13	09	08	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.41	0.33	0.27	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.4	4.5	2.7	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.28	0.31	0.20	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annual	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annual	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified


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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	May 2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, Sl.No. 557 DTC 2024, APM 860, Sl.No. 556 DTC 2024, APM 860, Sl.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, Sl.No. 475 DTC 2024, APM 154, Sl.No. 474 DTC 2024, APM 154, Sl.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	4 of 7
Discipline	Chemical	Group	Atmospheric Pollution

LIMITS AND METHOD OF ANALYSIS

S.No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)

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Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	13 th June 2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SL.No. 557 DTC 2024, APM 860, SL.No. 556 DTC 2024, APM 860, SL.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SL.No. 475 DTC 2024, APM 154, SL.No. 474 DTC 2024, APM 154, SL.No. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	69	74	65	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	31	27	24	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	18	15	12	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	23	19	15	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	11	07	06	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.37	0.30	0.24	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.2	4.3	2.4	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.25	0.28	0.17	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annau	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annau	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified

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PAN: ABQCS0643F

CIN: U74909AP2025PTC119098



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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	June 2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required.	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	3 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

Location of Sampling Site: South Gate

Parameters	Units	02.06.2025	06.06.2025	09.06.2025	16.06.2025	20.06.2025	23.06.2025	27.06.2025	30.06.2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: Store Yard

Parameters	Units	02.06.2025	06.06.2025	09.06.2025	16.06.2025	20.06.2025	23.06.2025	27.06.2025	30.06.2025
Lead (µg/m ³)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: HLPH

Parameters	Units	02.06.2025	06.06.2025	09.06.2025	16.06.2025	20.06.2025	23.06.2025	27.06.2025	30.06.2025
Lead (µg/m ³)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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Date of Monitoring	June 2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis-	IS: 5182	Page No.	4 of 7
Discipline	Chemical	Group	Atmospheric Pollution

LIMITS AND METHOD OF ANALYSIS

S. No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)

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Date of Monitoring	11th July 2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
P.O. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024, APM 860, SLNo. 556 DTC 2024, APM 860, SLNo. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024, APM 154, SLNo. 474 DTC 2024, APM 154, SLNo. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	73	78	68	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	33	29	26	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	20	17	15	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	25	21	18	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	13	09	08	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.39	0.32	0.26	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.5	4.5	2.6	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.27	0.31	0.19	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12,
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annau	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annau	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified

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Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	July 2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024, APM 860, SLNo. 556 DTC 2024, APM 860, SLNo. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024, APM 154, SLNo. 474 DTC 2024, APM 154, SLNo. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	3 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

Location of Sampling Site: South Gate								
Parameters	Units	04.07.2025	07.07.2025	14.07.2025	18.07.2025	21.07.2025	25.07.2025	28.07.2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: Store Yard								
Parameters	Units	04.07.2025	07.07.2025	14.07.2025	18.07.2025	21.07.2025	25.07.2025	28.07.2025
Lead (µg/m ³)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: HLPH								
Parameters	Units	04.07.2025	07.07.2025	14.07.2025	18.07.2025	21.07.2025	25.07.2025	28.07.2025
Lead (µg/m ³)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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PAN: ABQCS0643F

CIN: U74909AP2025PTC119098





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Issued to:

**M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	July 2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024, APM 860, SLNo. 556 DTC 2024, APM 860, SLNo. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024, APM 154, SLNo. 474 DTC 2024, APM 154, SLNo. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	4 of 7
Discipline	Chemical	Group	Atmospheric Pollution

LIMITS AND METHOD OF ANALYSIS

S.No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)

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Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	14 th Aug 2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SL.No. 557 DTC 2024, APM 860, SL.No. 556 DTC 2024, APM 860, SL.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SL.No. 475 DTC 2024, APM 154, SL.No. 474 DTC 2024, APM 154, SL.No. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	71	74	64	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	28	31	22	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	16	14	17	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	29	24	22	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	10	17	09	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.34	0.25	0.21	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	2.9	4.1	2.2	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.22	0.28	0.21	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annaul	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annaul	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified

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VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	Aug 2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	3 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

Location of Sampling Site: South Gate									
Parameters	Units	01.08.2025	04.08.2025	08.08.2025	11.08.2025	18.08.2025	22.08.2025	25.08.2025	29.08.2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: Store Yard									
Parameters	Units	01.08.2025	04.08.2025	08.08.2025	11.08.2025	18.08.2025	22.08.2025	25.08.2025	29.08.2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: HLPH									
Parameters	Units	01.08.2025	04.08.2025	08.08.2025	11.08.2025	18.08.2025	22.08.2025	25.08.2025	29.08.2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	Aug 2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SL.No. 557 DTC 2024, APM 860, SL.No. 556 DTC 2024, APM 860, SL.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SL.No. 475 DTC 2024, APM 154, SL.No. 474 DTC 2024, APM 154, SL.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	4 of 7
Discipline	Chemical	Group	Atmospheric Pollution

LIMITS AND METHOD OF ANALYSIS

S.No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)

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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	12 th September 2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/01		
Sample particulars	Ambient Air, No. of sample's 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	1 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS			STANDARDS	METHODS
			HLPH	SOUTH GATE	STORE YARD		
1.	Particulate Matter – PM ₁₀	µg/m ³	67	71	62	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	25	33	26	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	13	11	15	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	36	29	25	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	08	11	06	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	BDL	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.27	0.21	0.26	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.5	2.5	1.8	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.18	0.25	0.26	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	BDL	BDL	06-Annual	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	20-Annual	IS: 5182 (P-26)
13.	Hydrocarbons	mg/m ³	BDL	BDL	BDL	NS	IS: 5182 (P-17)

• NS – Not Specified

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	Sept 2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	3 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

Location of Sampling Site: South Gate									
Parameters	Units	01-09-2025	05-09-2025	08-09-2025	15-09-2025	19-09-2025	22-09-2025	26-09-2025	29-09-2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: Store Yard									
Parameters	Units	01-09-2025	05-09-2025	08-09-2025	15-09-2025	19-09-2025	22-09-2025	26-09-2025	29-09-2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Location of Sampling Site: HLPH									
Parameters	Units	01-09-2025	05-09-2025	08-09-2025	15-09-2025	19-09-2025	22-09-2025	26-09-2025	29-09-2025
Lead as (Pb)	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo (a) pyrene as (BaP)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic as (As)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel as (Ni)	ng/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL


Date of Monitoring	Sept 2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/03		
Sample particulars	Ambient Air, No. of sample - 3 (Three)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024, APM 860, SI.No. 556 DTC 2024, APM 860, SI.No. 555 DTC 2024 PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024, APM 154, SI.No. 474 DTC 2024, APM 154, SI.No. 473 DTC 2024.		
Test required	Pb, Benzo(a)pyrene, Arsenic & Nickel		
Method of analysis	IS: 5182	Page No.	4 of 7
Discipline	Chemical	Group	Atmospheric Pollution

LIMITS AND METHOD OF ANALYSIS

S.No.	POLLUTANT	UNITS	TIME WEIGHTED AVERAGE	LIMITS	METHOD
1.	Lead ($\mu\text{g}/\text{m}^3$)	$\mu\text{g}/\text{m}^3$	24 Hrs	1.0	IS:5182 (P-22)
2.	Benzo (a) pyrene as (BaP)	ng/m^3	Annual	1.0	IS: 5182 (P12)
3.	Arsenic as (As)	ng/m^3	Annual	6.0	APHA-302
4.	Nickel as (Ni)	ng/m^3	Annual	20.0	IS: 5182 (P-26)


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SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	12 th April 2025	Date of reporting	07-05-2025
Report No.	SVELC/HPCL/25-04/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 6
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	60	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	23	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	13	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	17	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	7.4	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.28	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	2.9	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.12	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annau	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annau	IS: 5182 (P-26)

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VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	10 th May 2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, Sl.No. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, Sl.No. 475 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	63	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	25	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	16	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	19	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	7.9	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.31	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.2	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.15	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annaul	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annaul	IS: 5182 (P-26)

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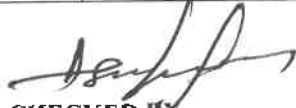
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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	14 th June 2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	59	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	22	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	13	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	17	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	7.5	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.28	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	2.8	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.13	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annau	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annau	IS: 5182 (P-26)


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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	12 th July 2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SLNo. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SLNo. 475 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	63	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	25	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	15	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	19	80-24hrs	IS:5182(P-5)
5.	Ozone as (O ₃)	µg/m ³	7.9	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.33	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.0	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.10	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annual	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annual	IS: 5182 (P-26)

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VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	16 th Aug 2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, SI.No. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, SI.No. 475 DTC 2024.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , O ₃ , Pb, CO, NH ₃ , Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	68	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	31	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	18	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	24	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	10.6	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.40	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.8	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.08	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annual	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annual	IS: 5182 (P-26)


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VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	13th September 2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/02		
Sample particulars	Ambient Air, No. of sample - 1 (One)		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	RDS, Make Lata Envirotech. Model/S.No. APM 860, Sl.No. 557 DTC 2024. PM10/PM2.5 Sampler, Make Lata Envirotech. Model/S.No. APM 154, Sl.No. 475 DTC 2024.		
Test required	PM₁₀, PM_{2.5}, SO₂, NO_x, O₃, Pb, CO, NH₃, Benzene, Benzo(a)pyrene, Arsenic, Nickel & HC		
Method of analysis	IS: 5182	Page No.	2 of 7
Discipline	Chemical	Group	Atmospheric Pollution

AMBIENT AIR QUALITY

S No.	POLLUTANT	UNIT	RESULTS	STANDARDS	METHODS
			MALKAPURAM		
1.	Particulate Matter – PM ₁₀	µg/m ³	65	100-24hrs	IS:5182 (P-23)
2.	Particulate Matter – PM _{2.5}	µg/m ³	27	60-24hrs	IS:5182 (P-24)
3.	Sulphur Dioxide – SO ₂	µg/m ³	15	80-24hrs	IS:5182 (P-2)
4.	Oxides of Nitrogen – NO _x	µg/m ³	21	80-24hrs	IS:5182(P-6)
5.	Ozone as (O ₃)	µg/m ³	12.8	100-8hrs	IS:5182 (P-9)
6.	Lead as (Pb)	µg/m ³	BDL	1.0-24hrs	IS:5182 (P-22)
7.	Carbon Monoxide as (CO)	mg/m ³	0.34	2.0-1hr	IS:5182 (P-10)
8.	Ammonia as (NH ₃)	µg/m ³	3.2	400-24hrs	IS 5182 (P-25)
9.	Benzene as (C ₆ H ₆)	µg/m ³	0.05	05-Annual	IS: 5182 (P-11)
10.	Benzo (a) pyrene as (BaP)	ng/m ³	BDL	01-Annual	IS: 5182 (P12)
11.	Arsenic as (As)	ng/m ³	BDL	06-Annual	APHA-302
12.	Nickel as (Ni)	ng/m ³	BDL	20-Annual	IS: 5182 (P-26)


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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/04		
Sample particulars	Borewell-10, M.O.I		
/Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	7.36	6.5 to 8.5	No Relaxation	APHA, 4500-H+E,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	2.1	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	789	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.097	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH3-B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K (RA: 2009)
4.	Barium as Ba	mg/l	0.65	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	<0.005	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	108	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	239	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.92	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.94	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	49.9	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	12.6	45 Max	No Relaxation	APHA, 4500 NO ₃ ⁻ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	110	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	352	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	475	200 Max	600 Max	APHA, 2340-C,
22.	Zinc as Zn	mg/l	4.52	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances

1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC-MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC-MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC-MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	

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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/05		
Sample particulars	South West Point of Sludge Pond (ETP-2)		
/Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	6.76	6.5 to 8.5	No Relaxation	APHA, 4500-ii+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	1.3	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	868	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.045	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH3-B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	<0.005	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.16	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	119	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	202	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.96	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.53	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	46.1	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	17.6	45 Max	No Relaxation	APHA, 4500 NO ³ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	89.5	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	378	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	487	200 Max	600 Max	APHA, 2340-C,
22.	Zinc as Zn	mg/l	3.87	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances

1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC-MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC-MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC-MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	

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Issued to:

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VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/06		
Sample particulars	Borewell-21, East Side of Centrifuge ETP-2		
/Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	7.22	6.5 to 8.5	No Relaxation	APHA, 4500-H+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	3.8	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	836	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.040	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH ₃ -B & (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	0.11	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.22	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	106	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	198	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.74	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.52	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	41.3	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	14.5	45 Max	No Relaxation	APHA, 4500 NO ₃ ⁻ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	95.8	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	359	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	435	200 Max	600 Max	APHA, 2340-C,
22.	Zinc as Zn	mg/l	3.60	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances


1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC-MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC-MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC-MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	

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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/07		
Sample particulars	Borewell-18, Chemical House (ATP)		
Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	6.97	6.5 to 8.5	No Relaxation	APHA, 4500-H+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	1.14	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	897	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.09	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH ₃ -B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	<0.005	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.22	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	110	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	226	250 Max	1000 Max	APHA, 4500-Cl P,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.86	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.79	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	47.5	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	15.8	45 Max	No Relaxation	APHA, 4500 NO ₃ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	116	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	369	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	470	200 Max	600 Max	APHA, 2340-C; *
22.	Zinc as Zn	mg/l	4.1	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances


1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC- MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC- MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC- MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	


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AUTHORIZED SIGNATORY

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VAISAKHA REFINERY, MALKAPURAM,
VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/01		
Sample particulars	South East Corner Boundary (I-ETP)		
Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	7.41	6.5 to 8.5	No Relaxation	APHA, 4500-H+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	1.1	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	668	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.063	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH3-B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	<0.005	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.21	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	79.5	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	135	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.72	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.69	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	35.2	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	11.2	45 Max	No Relaxation	APHA, 4500 NO ₃ ⁻ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	72.6	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	296	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	344	200 Max	600 Max	APHA, 2340-C, *
22.	Zinc as Zn	mg/l	3.15	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances

1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC-MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC-MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC-MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	

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CIN: U74909AP2025PTC119098





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Issued to:

**M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/02		
Sample particulars	Borewell-8, West of Tank 90.		
Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	6.96	6.5 to 8.5	No Relaxation	APHA, 4500-H+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	<1.0	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	492	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.025	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH ₃ -B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	0.45	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.18	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	68.5	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	114	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.86	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.51	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	28.5	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	10.3	45 Max	No Relaxation	APHA, 4500 NO ₃ ⁻ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	61.4	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	236	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	289	200 Max	600 Max	APHA, 2340-C,
22.	Zinc as Zn	mg/l	2.94	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances

1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC- MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC- MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC- MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	

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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Sampling	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/03		
Sample particulars	Borewell-9, South East SS6/B Substation		
/Start Date of Analysis	17-06-2025	End Date of Analysis	23-06-2025
Test required	As per IS 10500:2012		
Method of analysis	APHA 24 th Ed, 2023.		
Discipline	Chemical	Group	Water
Packing	3Ltrs, Plastic Can	Product	Ground Water
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	PARAMETER	UNIT	RESULT	IS 10500 SPECIFICATIONS		METHODS
Table 1 Organoleptic and physical parameters				Acceptable	Permissible	
1.	Colour	Hazen	<1.0	5 Max	15 Max	APHA, 2120-C,
2.	Odour	-	Agreeable	Agreeable	Agreeable	APHA, 2150-C,
3.	pH	-	6.84	6.5 to 8.5	No Relaxation	APHA, 4500-H+B,
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA, 2160 B,
5.	Turbidity	NTU	1.60	1 Max	5 Max	APHA, 2130-B,
6.	Total Dissolved Solids	mg/l	778	500 Max	2000 Max	APHA, 2540-C,
Table 2 General parameters concerning substances undesirable in excessive amounts						
1.	Aluminium as Al	mg/l	0.085	0.03 Max	0.2 Max	APHA, 3120-B,
2.	Ammonia as Total ammonia-N	mg/l	<0.01	0.5 Max	0.5 Max	APHA, 4500 NH ₃ -B & C (Phenate method),
3.	Anionic detergents as MBAS	mg/l	<0.1	0.2 Max	1.0 Max	IS 13428:2005 Annex-K&L (RA: 2009)
4.	Barium as Ba	mg/l	0.33	0.7 Max	No Relaxation	APHA, 3120-B,
5.	Boron as B	mg/l	0.68	0.5 Max	1.0 Max	APHA, 3120-B,
6.	Calcium as Ca	mg/l	91.3	75 Max	200 Max	APHA, 3500-Ca B,
7.	Chlorides as Cl	mg/l	224	250 Max	1000 Max	APHA, 4500-Cl B,
8.	Copper as Cu	mg/l	<0.005	0.05 Max	1.5 Max	APHA, 3120-B,
9.	Fluoride as F	mg/l	0.77	1.0 Max	1.5 Max	APHA, 4500-FD,
10.	Residual free chlorine	mg/l	<0.1	0.2 Min	1.0 Min	IS 3025 P:26:1986, (RA:2003)
11.	Iron as Fe	mg/l	0.66	0.3 Max	No Relaxation	APHA, 3120-B,
12.	Magnesium as Mg	mg/l	37.8	30 Max	100 Max	APHA, 3500-Mg B,
13.	Manganese as Mn	mg/l	<0.005	0.1 Max	0.3 Max	APHA, 3120-B,
14.	Nitrate as NO ₃	mg/l	13.9	45 Max	No Relaxation	APHA, 4500 NO ₃ ⁻ -B & C,

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16.	Selenium as Se	mg/l	<0.005	0.01 Max	No Relaxation	APHA, 3120-B,
17.	Silver as Ag	mg/l	<0.005	0.1 Max	No Relaxation	APHA, 3120-B,
18.	Sulphate as SO ₄ ²⁻	mg/l	82.8	200 Max	400 Max	APHA, 4500-SO ₄ ²⁻ E,
19.	Sulphide as H ₂ S	mg/l	<1.0	200 Max	No Relaxation	APHA, 4500S ² D,
20.	Total Alkalinity as CaCO ₃	mg/l	306	200 Max	600 Max	APHA, 2320-B,
21.	Total Hardness as Ca CO ₃	mg/l	386	200 Max	600 Max	APHA, 2340-C,
22.	Zinc as Zn	mg/l	3.85	5 Max	15 Max	APHA, 3120-B,
23.	Chloramines as Cl ₂	mg/l	<0.1	4 Max	No Relaxation	IS 3025 P:26:1986, (RA:2003)
24.	Mineral Oil	mg/l	<0.1	0.5 Max	No Relaxation	APHA, 5520-C,

Table:3 Parameters concerning toxic substances

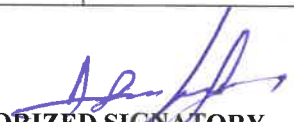
1.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation	APHA, 3120-B,
2.	Cyanide as CN	mg/l	<0.05	0.05	No Relaxation	APHA, 4500-CN -E,
3.	Lead as Pb	mg/l	<0.005	0.01	No Relaxation	APHA, 3120-B,
4.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation	APHA, 3120-B,
5.	Nickel as Ni	mg/l	<0.005	0.02	No Relaxation	APHA, 3120-B,
6.	Arsenic as As	mg/l	<0.005	0.01	0.05 Max	APHA, 3120-B,
7.	Chromium as Cr	mg/l	<0.005	0.05	No Relaxation	APHA, 3120-B,
8.	Molybdenum as Mo	mg/l	<0.005	0.07	No Relaxation	APHA, 3120-B,
9.	Polychlorinated biphenyls	mg/l	<0.0001	0.0005	No Relaxation	SVELC/LAB/WAT/GC-MSMS/03:2024
10.	Polynuclear Aromatic Hydrocarbons as PAH	mg/l	<0.0001	0.0001	No Relaxation	SVELC/LAB/WAT/GC-MSMS/02:2022

Table:4 Trihalomethanes

1.	Bromoform	mg/l	<0.1	0.1	No Relaxation	SVELC/LAB/WAT/GC-MSMS/05:2022
2.	Dibromochloromethene	mg/l	<0.1	0.1	No Relaxation	
3.	Bromodichloromethene	mg/l	<0.1	0.06	No Relaxation	
4.	Chloroform	mg/l	<0.1	0.2	No Relaxation	


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VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	16-06-2025	Date of reporting	23-06-2025
Report No.	SV/HPCL/25-06/08		
Sample particulars	Borewell Water Samples – 8Nos		
Test required	Water Depth (Meters)	Instrument Used	Piezo Meter
Discipline	Chemical		
Sampling done by	Field Chemist, SV		

TEST REPORT

S.No	Borewell Number	Sampling locations	Approx Below Ground levels (Mts)
1.	Borewell – 4	At Labour Gate	Dry
2.	Borewell – 8	West of Tank 90	5.7
3.	Borewell – 9	South East SS6/B Substation	8.5
4.	Borewell – 10	M.O.I. Building	6.3
5.	Borewell – 18	Chemical House	9.8
6.	Borewell – 20	South West Point of Sludge Pond	9.5
7.	Borewell – 21	East of Centrifuge ETP-2	7.7
8.	South East Corner Boundary	(I-ETP)	5.4

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VISAKHAPATNAM – 530 011.**

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	11 th April 2025	Date of reporting	07-05-2025
Report No.	SVELC/HPCL/25-04/08		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron SLNo. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	6 of 6
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	69	61
2	1m distance away from Store Yard	66	59
3	1m distance away from HLPH	63	47

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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Kind attention to: G. BHAGAVAN, GM-TECHNICAL

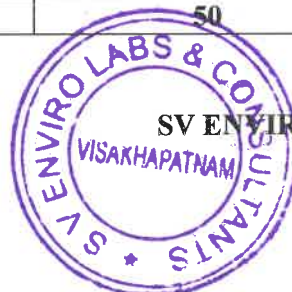
Date of Monitoring	09 th May 2025	Date of reporting	09-06-2025
Report No.	SVELC/HPCL/25-05/08		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron Sl.No. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	7 of 7
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	71	63
2	1m distance away from Store Yard	68	61
3	1m distance away from HLPH	65	49

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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VISAKHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	13 th June 2025	Date of reporting	09-07-2025
Report No.	SVELC/HPCL/25-06/06		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron Sl.No. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	7 of 7
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	68	61
2	1m distance away from Store Yard	65	58
3	1m distance away from HLPH	63	47

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



SV ENVIRO LABS & CONSULTANTS

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

Website: www.svenvirolabs.com
E-Mails : info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Contacts
0891-2755528, +91 7207664444

PAN: ABQCS0643F
CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Issued to:

M/s. HINDUSTAN PETROLEUM CORPORATION LTD.,
VAISAKHA REFINERY, MALKAPURAM,
VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	11th July 2025	Date of reporting	09-08-2025
Report No.	SV/HPCL/25-07/06		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron Sl.No. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	7 of 7
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	66.9	58.4
2	1m distance away from Store Yard	63.4	56.9
3	1m distance away from HLPH	61.2	45.7

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



AUTHORIZED SIGNATORY

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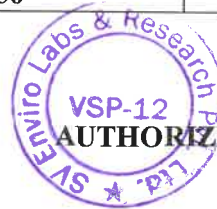
Date of Monitoring	14th Aug 2025	Date of reporting	08-09-2025
Report No.	SV/HPCL/25-08/06		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron Sl.No. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	7 of 7
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	67.9	57.1
2	1m distance away from Store Yard	65.1	56.3
3	1m distance away from HLPH	59.8	43.5

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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VISA KHAPATNAM – 530 011.

Kind attention to: G. BHAGAVAN, GM-TECHNICAL

Date of Monitoring	12 th September 2025	Date of reporting	09-10-2025
Report No.	SV/HPCL/25-09/06		
Sample particulars	Noise-3No's		
PO. No.	5200046390 Dt. 27.03.2024		
Instrument used	Sound Level Meter, Make: Lutron Sl.No. SL-4033SD/Q660788		
Test required	Noise Levels		
Method of analysis	IS: 9989	Page No.	7 of 7
Discipline	Chemical	Group	Atmospheric Pollution

TEST REPORT

S.No.	Locations	Noise Levels dB (A)	
		Day (6 am to 10 pm)	Night (10 pm to 6am)
1	1m distance away from South Gate	68.8	59.4
2	1m distance away from Store Yard	66.5	57.1
3	1m distance away from HLPH	61.1	45.2

NOISE QUALITY STANDARDS IN RESPECT OF NOISE

Area Code	Category of Area	Limits in dB (A)	
		Day	Night
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
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Andhra Pradesh, India represented herein by its Managing Director (hereinafter referred to as “GVSCCL” which expression shall unless repugnant to the context mean and include successors, administrators, legal representatives and assignees) on the **Second Part**;

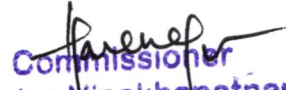
AND


- (iii) **Hindustan Petroleum Corporation Limited (HPCL)**, a Government of India Enterprise, having its registered office at Petroleum House, 17, Jamshedji Tata Road, Mumbai - 400020, Maharashtra, and one of its refineries (Visakh Refinery) at Post Box-15, Malkapuram, Visakhapatnam-530011, Andhra Pradesh, represented herein by its Executive Director (hereinafter referred to as “HPCL” which expression shall unless repugnant to the context, mean and include its permitted assignees) on the **Third Part**. ‘GVMC’, ‘GVSCCL’ and ‘HPCL’ are hereinafter collectively referred to as the “Parties” and individually as the “Party” as the context may permit.

1 Introduction

- A. GVMC and GVSCCL are developing a sewerage infrastructure project in Visakhapatnam, comprising:
- laying of sewerage network and providing connections in Gajuwaka, Malkapuram and Pendurthi in a phased manner;
 - full utilisation of the existing 108 MLD Sewage Treatment Plant (STP) at Narava;
 - augmentation of the existing sewerage pumping stations and development of new sewage pumping stations as required;
 - development of a new waste water treatment plant with a system for additional treatment to further treat the treated waste water from the STPs for the supply of Recycled Water to various industries in Visakhapatnam (the “Project”).
- B. GVSCCL has been incorporated as a 50:50 joint venture company by GVMC and the Government of Andhra Pradesh (GoAP) for the purpose of undertaking several obligations pertaining to the development of Visakhapatnam as a Smart City. Further, vide the G.O. Rt. No. 546 dated 26.7.2017 issued by the Municipal Administration & Urban Development Department, GoAP, the ‘Project’ had been transferred from GVMC to GVSCCL for development and further operations.
- C. GVMC and HPCL have executed 3 agreements for the supply of Bulk Water as per the following details:
- Agreement No. 25/GVMC-Bulk Water/2020-21 dated 01.06.2020 for the supply of **12 LIGD of clear water** by GVMC from its Raiwada source to HPCL for use at its Visakh Refinery;
 - Agreement No. 26/GVMC-Bulk Water/2020-21 dated 01.06.2020 for the supply of **18 LIGD of clear water** by GVMC from its Meghadri Gedda Reservoir to HPCL for use at its Visakh Refinery; and


DIRECTOR
GVSCCL



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Greater Visakhapatnam
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Visakhapatnam


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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
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- (iii) Agreement No. 27/GVMC-Bulk Water/2020-21 dated 01.06.2020 for the supply of **15 LIGD of clear water** by GVMC from its Thatipudi Source to HPCL for use of 14 LIGD at its Visakh Refinery and 1 LIGD at its Waltair Park Housing Complex.

The total quantity agreed to be supplied by GVMC to HPCL under the aforesaid Agreements is 45 LIGD (**20.46 MLD**). The aforesaid agreements are hereinafter collectively referred to as the '**Executed Agreements**' and are attached herewith collectively as **Annexure-I**. In terms of these Executed Agreements, GVMC is already supplying 45 LIGD (20.46 MLD) of clear water to HPCL. However, going forward, as the Project Facility is operational, GVSCCL shall supply 36.2 LIGD (16.46 MLD) of Recycled (treated) Water (hereinafter referred to as the "**Product**") which shall replace 36.2 LIGD (16.46 MLD) of clear water being supplied by GVMC presently and GVMC shall continue to supply only 8.8 LIGD (4 MLD) of clear water to HPCL.

- D. The Parties agree that the rights and obligations of GVMC under the Executed Agreements shall stand transferred and novated in favour of GVSCCL pursuant to this Agreement and that GVSCCL shall undertake, comply with and perform the said obligations of GVMC under the Executed Agreements.
- E. Post novation of the rights and obligations of GVMC in favour of GVSCCL pursuant to this Agreement, the Parties now agree to the following revised understanding in relation to the supply of water to HPCL:
- (i) Instead of clear water supply from GVMC as per the above said Executed Agreements and Recital C above, HPCL has agreed to accept 36.2 LIGD (16.46 MLD) of Product from GVSCCL, which GVSCCL shall supply to HPCL at the rate of Rs. 57/- per KL (inclusive of all taxes & charges as applicable). Cost to HPCL for the Product will be only Rs. 57/- per KL (all inclusive).
- (ii) In addition to the above, HPCL has requested and GVSCCL has agreed to supply additional 30 LIGD (13.64 MLD) of Product to HPCL. Thus, a total of 66.2 LIGD (30.10 MLD) [36.2 LIGD (16.46 MLD) + 30 LIGD (13.64 MLD)] of Product water shall be supplied by GVSCCL to HPCL at the rate of Rs. 57/- per KL (inclusive of all taxes & charges as applicable). Cost to HPCL for the Product will be only Rs. 57/- per KL (all inclusive).
- (iii) Balance 8.8 LIGD (4 MLD) of clear water (hereinafter referred to as the "**Clear Water**") shall continue to be supplied by GVMC to HPCL, at the current rate of Rs. 60/- per KL (as per the Executed Agreements) or at such revised rates as may be applicable from time to time.
- (iv) Except to the extent modified above, all the other terms and conditions of the Executed Agreements shall continue to be binding and effective between the Parties and shall be deemed to be incorporated by reference into this Agreement, to the extent the same are required and relevant for the purpose of this Agreement and are not being repeated herein for the sake of brevity. Thus, this agreement shall always be read in conjunction with the Executed agreements. It is agreed that further renewal of the **Executed Agreements**


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shall not be required as they have been subsumed into this tripartite agreement.

- F. **Priority of Documents:** The Parties agree that in case of any inconsistency or conflict between the Executed Agreements and this Agreement, this Agreement shall prevail as regards the revised understanding of the Parties for the supply of Product and Clear Water is concerned. In relation to the Capital Contribution and other charges already paid by HPCL under the Executed Agreements, the Executed Agreements shall prevail. However, clause regarding billing for 60% of contracted quantities of individual executed agreements shall not be applicable.

2 Project Facility

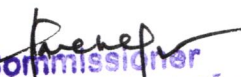
Project Facility means collectively the following:

- (a) Waste Water Treatment Plant including Ultra-Filtration and Reverse Osmosis (UF&RO) plant constructed in STP premises at Narava [collectively referred to as "**Tertiary Treatment and Reverse Osmosis plant (TTRO)**"],
- (b) Pumping Station(s) for Product supply,
- (c) Conveyance pipeline from TTRO to HPCL premises on an exclusive basis for supply of the Product,
- (d) Any other infrastructure that forms or may form part of the Project Facility at a future date, and
- (e) The clear water supply facility for meeting contingency in case of quality and quantity issues with respect to STP water.

3 Contracted Quantity

- (a) The "**Contracted Quantity**" is 75 LIGD [34.10 Million Litres Per Day (MLD)] comprising of the following:
 - i. 66.2 LIGD (30.10 MLD) of Product ("**Contracted Quantity of Product**") and
 - ii. 8.8 LIGD (4 MLD) of Clear Water ("**Contracted Quantity of Clear Water**").
- (b) GVSCCL and GVMC assure HPCL that supply of Contracted Quantity of Product [66.2 LIGD (30.10 MLD)] and Clear Water [8.8 LIGD (4 MLD)] shall be undertaken as per the terms and conditions provided in this Agreement.
- (c) **Product:**
 - i. The supply start date for the Contracted Quantity of Product is 1st July 2023 onwards as mutually agreed between the Parties and shall be referred to as the '**Effective Date**' in this Agreement. GVSCCL has agreed to supply the Contracted Quantity of Product as per the Specifications attached


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herewith as Annexure-II. The payment obligations on the part of HPCL have also commenced from the Effective Date.

- ii. The supply obligations on the part of GVSCCL shall continue as per the Agreement.
- iii. The Contracted Quantity of Product, reckoned on a daily basis, shall be supplied equally in a period spread over 24 hours.

(d) **Clear Water:**

- i. The Contracted Quantity of Clear Water per day (on an average) will be supplied to HPCL during any duration of the day as per the convenience of GVMC. The supply start date for the Contracted Quantity of Clear Water shall be reckoned from the Effective Date in this agreement.
- ii. Out of the contracted quantity of Clear Water [8.8 LIGD (4 MLD)], 1 LIGD (0.45 MLD) of clear water is to be supplied at HPCL Waltair Park Housing Complex.

4 Delivery Point

(a) **Product:**

- i. The Product by GVSCCL for HPCL will be delivered with 7 m (0.7 Kg/cm² G) residual head at the existing reservoir of HPCL (i.e., "**Delivery Point**"), where the other GVMC sources are delivering clear water.
- ii. HPCL shall be responsible for the development and operation of any facilities for storage, usage, etc., of Product in its premises beyond the Delivery Point.
- iii. The title, property & the risk of loss of the Product delivered under this Agreement shall pass from GVSCCL to HPCL at the Delivery Point.

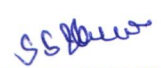
(b) **Clear Water:**

- i. **Clear Water** shall be continued to be supplied by GVMC from its suitable point / source (Raiwada source / Meghadri Gedda Reservoir / Thatipudi source) to HPCL.
- ii. 1 LIGD (0.45 MLD) of **Clear Water** is to be supplied at HPCL Waltair Park Housing Complex from High level reservoir at Waltair Park point.

5 Supply Price for the Product and Clear Water

(a) **Supply by GVSCCL (Product):**

- i. The Supply Price of the Product payable by HPCL to GVSCCL for the supply of the Product will be Rs. 59.85/- per KL (inclusive of all taxes) from


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1st July 2024 and Rs. 62.85/- per KL (inclusive of all taxes) w.e.f 1st July 2025 and thereon with 5% escalation every successive year.


- ii. HPCL shall be charged for at least 60% of the Contracted Quantity of Product per month (Contracted Quantity of Product per month is defined as 66.2 LIGD (30.10 MLD x number of days in that particular month) if the quantity of Product consumed in a month is less than 60% of the Contracted quantity.
- iii. HPCL shall be charged for the actual quantity consumed in a month if it is more than 60% of the Contracted Quantity of Product in a month.
- iv. For the quantity of Product consumed over and above the Contracted Quantity of Product in a month, HPCL shall be charged for the extra quantity at the same price as the Supply Price of the Product.
- v. The Supply Price shall escalate by 5% every year on 1st July from the successive year after effective date.
- vi. HPCL will be charged for maintenance of meters, instrumentation and automation etc., at the rate of 0.75% (plus applicable taxes) of the monthly bill, which is subject to revision as and when necessary.

(b) Supply by GVMC (Clear Water):

- i. The Supply Price of Clear Water to be supplied by GVMC to HPCL shall be calculated at the rate of Rs. 60/- per KL or at such rate as may be applicable from time to time.
- ii. HPCL will be charged for at least for 60% of the Contracted Quantity of Clear Water per month if the Contracted Quantity of Clear Water consumed in a month is less than 60% of Contracted Quantity of Clear Water.
- iii. HPCL will be charged for actual quantity of Clear Water consumed in a month if it varies between 60% and 100% of Contracted Quantity of Clear Water, reckoned per month at the rate of Rs.60/- per KL or at such rate as may be applicable from time to time.
- iv. HPCL will be charged for additional Clear Water quantity consumed, over and above the Contracted Quantity of Clear Water, reckoned per month at the rate of Rs.120/- per KL or at such rate as may be applicable from time to time.
- v. HPCL will be charged for actual consumption of Clear Water even though it is less than the 60% of Contracted Quantity of Clear Water, reckoned per month, if GVMC is solely responsible for supply of less than 60% of Contracted Quantity of Clear Water.
- vi. HPCL will be charged for maintenance of meters, instrumentation and automation etc., at the rate of 0.75% of the monthly bill, which is subject to revision as and when necessary.


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- vii. The existing rate per KL of Clear Water consumed shall be revised as and when deemed necessary by the governing council of GVMC from time to time.
- viii. HPCL will be informed of the revision in Supply Price well in advance by 2 months by directly addressing through a letter.
- ix. The Clear Water supply bye-laws as framed and amended from time to time by the GVMC shall form part of this Agreement to the extent they are consistent with the provisions hereof.

6 Off take by HPCL

The off-take by HPCL shall be of the Contracted Quantity (i.e. Product and Clear Water) except as per prior information to GVSCCL and GVMC and as mutually agreed to by the Parties.

(a) Product:

- i. In case HPCL wants a reduction in the Contracted Quantity of Product or is unable to off-take the Contracted Quantity of Product in a specific supply period, it shall inform GVSCCL of the same 24 hours in advance.

(b) Clear Water:

- i. If HPCL desires to reduce the Contracted Quantity of Clear Water, three (3) months' prior intimation should be given to GVMC.

7 Failure to Supply

- (a) In the case of any unfortunate event and consequent shortage in provision of Product due to reasons attributable to GVSCCL, the HPCL water requirement shall be met from the existing clear water supply lines by GVMC at the rate of Product water without any penalties to HPCL. GVSCCL shall arrange the clear water supplies from GVMC during such periods.
- (b) Appropriate measures will be identified by GVMC to supply the balance quantity remaining unsupplied by GVSCCL to HPCL, from a suitable point. The switching/ transition time required for effecting Clear Water supply is normally about 12 hours.
- (c) However, considering unexpected contingencies during the switching /transition period, HPCL is required to make its own arrangements for storage of Product and Clear Water in its premises, the capacity of which should be at least 2 days' cover of the Contracted Quantity of Product and Contracted Quantity of Clear Water per day respectively.
- (d) However, the Parties agree and acknowledge that top priority shall be accorded to the supply of drinking water to the public, if there is any shortage in the availability of Clear Water.

SS
DIRECTOR
GVSCCL

[Signature]
Commissioner
Greater Visakhapatnam
Municipal Corporation
Visakhapatnam

[Signature]
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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
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- (e) In such a scenario, the above said Clear Water supply by GVMC shall be in accordance with the provisions of this Agreement and shall be billed separately by GVMC at the cost of product water. GVSCCL to coordinate and ensure smooth supplies of clear water from GVMC and billing without any penalties in all such eventualities.

8 Conveyance Pipeline

- (a) The Product Water Conveyance pipeline is laid along Port Road and entered HPCL premises from the HPCL North boundary on Port Road side.
- (b) GVSCCL shall be responsible for the safety and maintenance of the conveyance pipeline up to the boundary limits of HPCL. HPCL shall be responsible for safety and maintenance of the conveyance pipeline in the HPCL premises.

9 Metering and Calibration

(a) Product:

- i. Metering for determining the exact quantities of the Product supplied shall be done at the Delivery Point in the premises of HPCL. GVSCCL shall install a meter with a standby at the Delivery Point.
- ii. Periodical calibration of the meter shall be carried out by GVSCCL.
- iii. HPCL shall provide adequate space (2m x 2m) for installation of the water meters.
- iv. Power requirement for the metering station shall be provided by HPCL while power backup by way of UPS shall be provided by GVSCCL.

(b) Clear Water:

- i. The metering and connected automation will be arranged immediately at the tapping point of GVMC water supply main.

10 Water Quality

(a) Product:

- i. The Product being supplied by GVSCCL to HPCL shall be as per the water quality parameters specified by HPCL, which are provided in **Annexure-II**.
- ii. HPCL shall carry out periodic analysis of the Product for ascertaining the quality requirements as specified in **Annexure-II**.
- iii. In case the Product as analysed by HPCL does not meet the specified quality, HPCL shall inform GVSCCL immediately, who shall immediately stop the supply of the Product and shall take necessary measures for improvement in the quality of the Product. Supply of the Product shall be resumed by GVSCCL upon achieving the specified quality. During the period of stoppage of Product supply on account of such quality issues, Clear Water shall be supplied to HPCL by GVMC with due allowance for the switching / transition period, at Supply Price of product water as

S. S. S. S.
DIRECTOR
GVSCCL

[Signature]
Commissioner
Greater Visakhapatnam
Municipal Corporation
Visakhapatnam

[Signature]
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कार्यकारी निदेशक (प्रशासकीय) / Executive Director (I/C) - VR
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applicable at that time. GVSCCL will coordinate and ensure clear water supply to HPCL in all such eventualities.

- iv. In the case of any dispute between GVSCCL & HPCL with respect to the quality of the Product, quality analysis of the Product shall be carried out by a mutually agreed third party, whose quality report thereof shall be binding on both GVSCCL & HPCL. The charges of such third-party analysis of the Product shall be equally shared by HPCL and GVSCCL.
- v. GVSCCL shall not be responsible for the quality of Product beyond the Delivery Point.

11 Capital Contribution Charges

- (a) The Parties agree, accept and acknowledge that under the Executed Agreements, HPCL has paid GVMC, the Capital Contribution Charges of Rs. 23,45,71,800/- (Rupees Twenty-Three Crores, Forty-Five Lakhs, Seventy-One Thousand and Eight Hundred only) to GVMC ("CCC"), the details of which are provided below:

Capital Contribution Charges: (Non-Refundable)


S. No.	Source	Contracted Quantity		Rate per KL	Amount paid so far (Rs.)	Details
		LIGD	KL			
1	RWD	12.00	5455.22	-	5,45,52,000	DD No. 069447, dt 20.08.2007
2				-		
3	MGR	18.00	8182.98	-	6,81,90,000	DD. 531356, SBI, dt 03.03.2015 Rcpt key. 2014-CH-61382, dt. 09.03.2015
4	TPD	15	6819.15	-	3,00,00,000	As per Bulk water supply agreement on dt. 31.12.1989
5					8,18,29,800	DD. 579690, SBI, 20.09.2017 Rcpt key. 2017-CH-15243, dt. 20.11.2017
	Total	45	20457.35		23,45,71,800	

- (b) For the purpose of this Agreement, the above said CCC already paid by HPCL to GVMC under the Executed Agreements, shall be deemed to have been paid by HPCL to GVSCCL for the supply of Product water.
- (c) For the additional requirement of 30 LIGD (13.64 MLD) of Product sought by HPCL, Capital Contribution Charges (CCC) as per the present GVMC norms, HPCL has paid to GVMC as per the schedule given below:

Schedule for Payment of Capital Contribution Charges for additional 30 LIGD (13.64 MLD)


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GVSCCL


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Visakhapatnam


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CCC Instalment No.	Stage	CCC Amount (Rs. Cr.)
1	At the time of Signing of this Agreement	10 % of CCC (Rs. 4.092 Cr.)
2	After 25 % physical progress of the Project Package-1	20 % of CCC (Rs. 8.184 Cr.)
3	After 50 % physical progress of the Project Package-1	20% of CCC (Rs. 8.184 Cr.)
4	After 75 % physical progress of the Project Package-1	25% of CCC (Rs. 10.23 Cr.)
5	At the time of start of actual supply of Product Water to HPCL	25 % of CCC (Rs. 10.23 Cr.)
	Total	Rs. 40.92 Cr.

12 Security for Payment

(a) The Parties agree, accept and acknowledge that under the Executed Agreements, HPCL has paid GVMC, the Advance Consumption Charges of Rs. 22,46,22,801/- (Rupees Twenty-Two Crores, Forty-Six Lakhs, Twenty-Two Thousand And Eight Hundred and One only) to GVMC ("ACC"), the details of which are provided below:

Advance Consumption Charges: (Refundable)

S. No.	Source	Contracted Quantity		Rate per KL	For a minimum period of	Amount (Rs.)	Details
		LGPD	KL				
1	RWD	12	5455.32	60	183 days	5,98,99,413.60	-
2	MGR	18	8182.98	60	183 days	8,98,49,120.40	-
3	TPD	15	6819.15	60	183 days	7,48,74,267.00	-
	Total	45	20457.45			22,46,22,801.00	

The details of these ACC payments by HPCL to GVMC are as given below:

Available Advance Consumption charges (Security Deposit) with GVMC					
1	-	-	-	Rs. 83,46,150	Cheque nos. VM-18935 dt. 12.07.1972, VM-45434 dt. 17.10.1979, VM- 4676 dt. 16.02.1984, VM-5096 dt. 09.03.1984, VM- 43079 dt. 23.08.1989, VM-46424 dt. 12.01.1990, dd. 082776 dt. 29.04.1997
2	-	-	-	Rs. 3,32,76,720	Cheque no. 069445, dt. 20.08.2007
3	-	-	-	Rs. 66,53,344	Cheque no. 073695, dt. 25.01.2008
4	-	-	-	Rs. 5,05,99,794	Rept key, 2013-CH-32942, 32944, 32945 Dt. 06.07.2013
5	-	-	-	Rs. 1,79,69,429	DD. 531357, SBI, dt. 03.03.2015 Rept key. 2014-CH-61384, dt. 09.03.2015
6	-	-	-	Rs. 7,78,27,657	DD. 017509, IDBI, dt. 24.03.2016 Rept key. 2015-CH-19551, dt. 24.03.2016
7	-	-	-	Rs. 2,99,49,707	DD. 579752, SBI, 11.10.2017 Rept key. 2017-CH-15245, dt. 20.11.2017
			Total Amount	Rs. 22,46,22,801	

Advance Consumption Charges paid by HPCL to GVMC for the additional 30 LIGD (13.64 MLD) requirement of Product sought by HPCL calculated as follows: 13640 KL x 183 days x Supply Price for the Product. = Rs. 14.23 Crores. The ACC will be interest free deposit with GVMC.

S. S. S.
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K. S. S.
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Visakhapatnam

R. Ramakrishnan
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(b) Product:

- i. HPCL has to pay the difference in amount of 183 days' Advance Consumption charges (Security Deposit) to take into consideration the yearly escalation in Supply Price of the Product. This differential amount shall be payable upon every three years of the Effective Date.

(c) Clear Water:

- i. HPCL has to pay the difference in amount of 183 days Advance Consumption charges (Security Deposit) whenever a revision in the Supply Price takes place, even though the renewal of this Agreement is not due by that time.

(d) Payable ACC from HPCL to GVMC:

The details of ACC paid by HPCL to GVMC for additional 30 LIGD (13.64 MLD) product after reconciliation of payment already made to GVMC towards ACC for the executed agreements

	Existing Refinery		VRMP
	Clear Water	Product Water	Product Water
Quantity	8.8 LIGD (4 MLD)	36.2 LIGD (16.46 MLD)	30 LIGD (13.64 MLD)
Price per KL	60	57	57
ACC for 183 days	Rs. 4,39,20,000	Rs. 17,16,94,260	Rs. 14,22,78,840
Total ACC	Rs. 21,56,14,260		Rs. 14,22,78,840
Amount paid to GVMC against ACC	Rs. 22,46,22,801		---
Balance	(-) Rs. 90,08,541		(+) Rs. 14,22,78,840
Total ACC paid to GVMC	Rs.13,32,70,299		


13 Payment Mechanism for Monthly Consumption Charges

(a) For Product supplied by GVSCCL:

- i. The bill for the monthly consumption charges for the Product consumed will be raised by GVSCCL once in a month.
- ii. GVSCCL will see that the bill reaches HPCL by the 10th day of every month. In any case if the bill is not received by the 10th day, HPCL has to inform the same to GVSCCL on the 11th day and obtain the duplicate bill.


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Visakhapatnam


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- iii. HPCL shall pay the bill amount within 15 (fifteen) days from the date of receipt of bill by online transfer into the Bank Account as specified by GVSCCL (or any other mode as may be directed by GVSCCL), failing which, the supply of the Product will be stopped.

(b) For Clear Water supplied by GVMC:

- i. The bill for the monthly consumption charges for Clear Water supplied by GVMC will be raised once in a month.
 - ii. GVMC will see that the bill reaches HPCL by the 10th day of every month. In any case if the bill is not received by the 10th day, HPCL has to inform the same to GVMC on the 11th day and obtain the duplicate bill.
 - iii. HPCL has to pay the bill amount within 15 (fifteen) days from the date of receipt of bill by online transfer into the Bank Account as specified by GVMC or any other mode as may be directed by GVMC, failing which the supply of Clear Water will be stopped.
- (c) HPCL shall be liable to pay the total demand amount for monthly consumption charges mentioned in each bill and any part payment will not be accepted by GVMC or GVSCCL.
- (d) In case of failure on the part of GVSCCL to supply the Contracted Quantity of the Product to HPCL as mentioned in Clause 7 above, Clear Water in quantity equivalent to the quantity remaining unsupplied/ shortfall, shall be supplied by GVMC to HPCL. In such a case, GVMC shall raise its invoice for the quantity of Clear Water supplied and thereafter GVSCCL and GVMC shall issue joint instructions to HPCL for the release of the payment to GVMC for the said Clear Water supplied.

14 Disconnection

(a) Product:


- i. If the monthly consumption charges for the Product are not paid within the due date, Product supply to HPCL will be disconnected after giving a notice of 7 days and penalty of Rs. 10,000/- will be levied on HPCL for reconnection, after clearing the bill.
- ii. Further, if the connection is disconnected, HPCL shall be charged an interest @ 18% from the due date to the date of actual payment over the outstanding due amount, in addition to the penalty of Rs. 10,000/- for reconnection.

(b) Clear Water:

- i. If the monthly consumption charges for Clear Water are not paid within the due date, Clear Water supply to HPCL will be disconnected after giving a notice of 7 days and penalty of Rs. 10,000/- will be levied on HPCL for reconnection, after clearing the bill.
- ii. Further, if the connection is disconnected, HPCL shall be charged an interest @ 18% from the due date to the date of actual payment over the


DIRECTOR
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outstanding due amount, in addition to the penalty of Rs. 10,000/- for reconnection.

15 Dispute Resolution, Governing Law and Jurisdiction

- (a) In the case of any dispute pertaining to the bills raised by GVSCCL or GVMC, HPCL should bring it to the notice of the concerned Parties within 7 (seven) days from the receipt of the bill, otherwise no objections will be admitted after 7 (seven) days.
- (b) Even if any bill raised by GVSCCL or GVMC is disputed, HPCL should pay the full amount of such disputed bill, pending settlement of the dispute through mutual understanding or arbitration and excess payment, if any, will be adjusted in subsequent bills.
- (c) In case a dispute regarding a bill raised by GVSCCL or GVMC has to be resolved through arbitration, two arbitrators shall be appointed, one by GVSCCL or by GVMC (as the case maybe) and the other by HPCL, who shall jointly appoint a presiding arbitrator who shall lead the arbitral tribunal. The award passed by the arbitral tribunal shall be final and binding on the concerned Parties. This Agreement shall be construed and interpreted in accordance with and governed by the laws of India, and the courts at Visakhapatnam shall have exclusive jurisdiction over matters arising out of or relating to this Agreement.

16 Force Majeure

"Force Majeure" shall mean any event or circumstance or combination thereof which prevents the Party claiming Force Majeure (the 'Affected Party') from performing its obligations under this Agreement and which event or circumstance:

- (i) is beyond the reasonable control and not arising out of the default of the Affected Party;
- (ii) the Affected Party has been unable to overcome such circumstance or event by the exercise of due diligence and reasonable efforts, skill and care; and
- (iii) has a material adverse effect on the subsistence of this Agreement.

Such events or circumstances shall include, without limitation, the effect of any natural element or other acts of State or God, including but not limited to, fire, flood, earthquake, lightning, cyclone, landslides or other natural disasters, strikes or other industrial disturbances, war, riots, civil commotion, terrorist attacks, embargoes, blockades, governmental restriction, intervention of civil, naval or military authorities or any change in laws applicable to any Party hereto or to the Project.

- (a) A Party shall not be liable to the other Party for any loss, injury, delay, damages or other casualty suffered or incurred by the latter due to Force Majeure, and any failure or delay by any Party in performance of its obligations under this Agreement due to Force Majeure shall not be considered as a breach of this Agreement.
- (b) The Party suffering Force Majeure shall notify the other Parties in writing promptly after the occurrence of such Force Majeure event. Such Party shall, to the extent reasonable and lawful, use its best efforts to remove or remedy such cause. Upon the occurrence of a Force Majeure event, the Party claiming


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Municipal Corporation
Visakhapatnam


आर. रामकृष्णन् DR. RAMAKRISHNAN
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हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
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Force Majeure shall use all reasonable endeavours to continue to perform its obligations under this Agreement and to minimize the adverse effects of such circumstances. Such a Party shall notify the other Parties of the steps it proposes to take including any reasonable alternative means for performance. In the event any obligation cannot be performed due to continuance of a Force Majeure event for a period of 7 days or more, the Parties agree that the time period for the performance of such obligation shall stand extended for an equivalent period after such time as the Force Majeure event ceases to exist.

- (c) If, as a result of a Force Majeure event, the Project has been rendered unviable or un-bankable or the Force Majeure event is not likely to be cured within a reasonable foreseeable period, the Parties may decide to terminate this Agreement in respect of such Project in which case the Parties shall be entitled to receive payments accrued and due to them, before the occurrence of the Force Majeure event.

17 Validity, Effectiveness and Operation of this Agreement

This Agreement:

- commences with effect from 29th March 2024 and shall be valid, effective and binding on the Parties for a period of 5 (five) years from date of signing this agreement ("**Validity Period**"),
- will remain in place until such time as one or all Parties determine otherwise,
- shall be executed in English in three originals, one for each Party, and
- can be amended at any time by a written agreement between the Parties or may be mutually extended by the Parties in writing.

Further, the Parties agree that:

- GVSCCL and GVMC will take all measures to ensure smooth and regular supply of Product and Clear Water respectively to HPCL but GVSCCL and GVMC shall not be responsible for loss of property or life or what so ever it may be due to shortage in supply due to accidental or unforeseen circumstances or matters beyond the control of GVSCCL and GVMC.
- GVSCCL and GVMC will inform in advance to HPCL about the stoppage of Product and Clear Water respectively for maintenance of various water supply installations.
- HPCL shall not resort for direct pumping from the GVSCCL and GVMC mains unless otherwise it is permitted by GVSCCL or GVMC as the case may be.


HPCL should approach GVSCCL and GVMC at least one month in advance before the expiry date, for renewal of this Agreement.

18. Termination

- Any Party may terminate this Agreement prior to expiry of its Validity Period, by a 3 months' written notice to the other Parties.
- This Agreement is terminable upon the occurrence of a Material Breach which has a Material Adverse Effect. This Agreement will also terminate automatically upon the bankruptcy of any Party hereto.


DIRECTOR
GVSCCL


Commissioner
Greater Visakhapatnam
Municipal Corporation
Visakhapatnam


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For the purpose of this clause:

“**Material Breach**” means a breach of the obligations, terms and conditions of this Agreement or covenants by a Party, which materially and substantially affects the performance of the transactions contemplated by this Agreement and results in a Material Adverse Effect.

“**Material Adverse Effect**” means circumstances which may or do (i) render any right vested in a Party by the terms of this Agreement ineffective; or (ii) adversely affect or restrict or frustrate the ability of any Party to observe and perform in a timely manner its obligations under this Agreement; or (iii) adversely affects the legality, validity, binding nature or enforceability of this Agreement.

(c) The termination of this Agreement shall not affect the rights of the Parties accrued prior to such termination.

The Parties confirm that they have carefully gone through the contents of this Agreement and agree to abide by the terms and conditions as laid down herein.

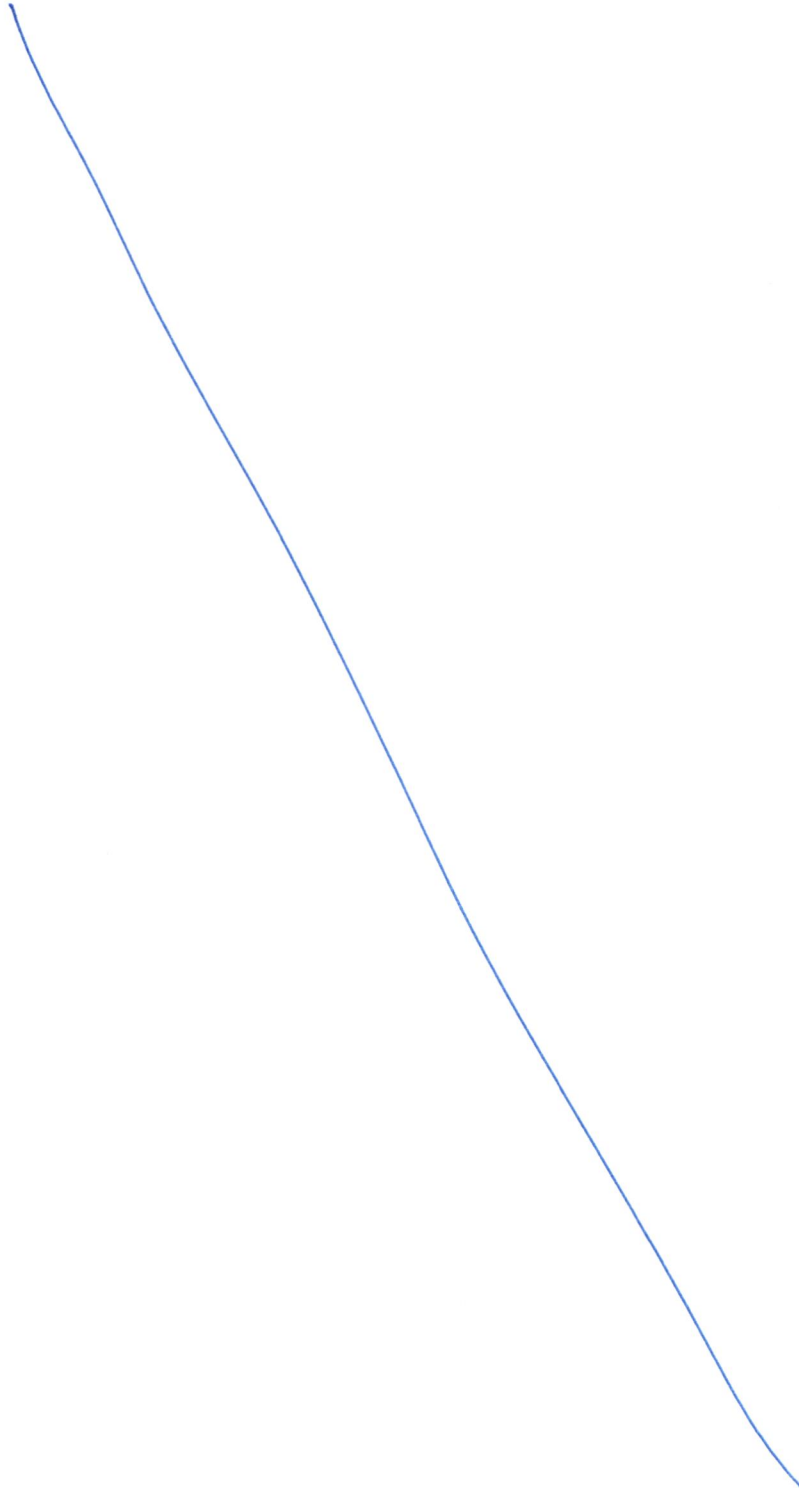
Signed for and on behalf of GVSCCL by:	Signed for and on behalf of GVMC by:	Signed for and on behalf of HPCL by:
<p>Name: <i>G. S. Rao</i></p> <p>Designation: DIRECTOR GVSCCL</p> <p>Date of signing:</p>	<p>Name: <i>Tareef</i></p> <p>Designation: Commissioner Greater Visakhapatnam Municipal Corporation Visakhapatnam</p> <p>Date of signing:</p>	<p>Name: <i>Ramakrishnan</i></p> <p>Designation: R. RAMAKRISHNAN Executive Director (I/C) - VR HINDUSTAN PETROLEUM CORPORATION LTD. Visakh Refinery Post Box No. 15 Visakhapatnam / VISAKHAPATNAM-530 011</p> <p>Date of signing:</p>

Witness:

GVSCCL	GVMC	HPCL
<p>1. <i>[Signature]</i> SE, GVSCCL</p>	<p><i>[Signature]</i> SE (GOMC) (GVSCCL)</p>	<p><i>[Signature]</i> Rajababachari Sankar HPCL-VR</p>
<p>2. <i>[Signature]</i> (G-ANANDA RAO)</p>		<p><i>[Signature]</i> B. RAVI, HPCL-VR</p>

Annexure - I

[Attached all the 3 Executed Agreements here]



S S Das
DIRECTOR
GVSCCL

[Signature]
Commissioner
Greater Visakhapatnam
Municipal Corporation
Visakhapatnam

[Signature]
आर. रामकृष्णम / R. RAMAKRISHNAN
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Annexure-II

Product (Recycled Water) Quality and Specifications

Sl. No.	Parameter	Unit	Specification
1	Ph		7.5 - 8.5
2	M-Alkalinity	PPM	60 max
3	Chlorides as Cl	PPM	60 max
4	Ca Hardness	PPM	60 max
5	Mg Hardness	PPM	40 max
6	Sulphates	PPM	17 max
7	Total Hardness	PPM	100 max
8	TDS	PPM	225 max
9	Organic Matter	PPM	3 max
10	TSS	PPM	2 max
11	Turbidity	NTU	1 max
12	Total Iron	PPM	0.02 max
13	Total Copper	PPM	0.02 max
14	Sodium as Na	PPM	Na+K =178.6 max
15	Potassium as K		
16	Total Organic Carbon	PPM	1 max
17	Manganese	PPM	0.1 max
18	KMnO4 value at 100 deg C	PPM	5 max
19	Nitrates as NO3-N	PPM	0.9 max
20	COD	PPM	10 max
21	BOD	PPM	2.5 max
22	Reactive Silica as SiO2	PPM	15 max
23	Colloidal Silica as SiO2	PPM	20 max
24	Organophosphates as PO4	PPM	0.1 max
25	Inorganophosphates as PO4	PPM	0.3 max

SSD
DIRECTOR
GVSCCL

Commissioner
Greater Visakhapatnam
Municipal Corporation
Visakhapatnam

Commissioner
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ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

M. Kanya Kumari

CH 995102

No. 26 Rs. 100 Dt. 14/06/2020

Sold to V. Ratan Raj, S/o V.S. Ratna, Kumer

M. KANYA KUMARI
LICENSED STAMP VENDOR
No. 03/11/07/2011 RL.No. 03/11/02/2020
10-24, Pidarthivari Street
Dabagardens, Visakhapatnam,
Cell: 8121537112

For Whom Visakh Refinery Hindustan Petroleum Corporation Limited, Visakh

RENEWAL OF BULK WATER SUPPLY AGREEMENT (MGR)

This agreement is made on the 01st day of JUNE 2020 by and in between the Greater Visakhapatnam Municipal Corporation, Visakhapatnam (GVMC) represented by the COMMISSIONER, here in after referred to as the "SUPPLIER", which expression unless repugnant to the context shall mean and include his successors in office and assigns on one part.

And

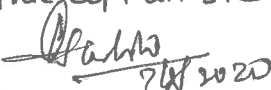
Hindustan Petroleum Corporation Limited, a company registered under the Companies Act, 1956 having its Registered Office at 17, Jamshedji Tata Road, Mumbai-400020 and a Refinery at Visakhapatnam, having their office at Malkapuram, Visakhapatnam (Visakh Refinery), here in after referred to as the "BULK CONSUMER", which expression unless repugnant to the context shall mean and include their heirs, successors, administrators, legal representatives and assigns on the other part.


Signature of the Bulk Consumer


Signature of the Supplier

వీ. రతనరాజు
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested


28/6/2020
Dy. Executive Engineer-II
Water Supply
GVMC

Whereas the Bulk Consumer had requested the Supplier for supply of **8182.98 KL (18 LGPD)** per day of Clear Water to **Hindustan Petroleum Corporation Limited** and has furnished guarantee for minimum consumption of 60% of the allotted quantity per month.

Whereas the Supplier has agreed to supply of **8182.98 KL** Clear Water per day (on an average) from their Mehadri Gedda Reservoir (MGR) Source to the sump in the premises of Bulk Consumer.

Whereas the Bulk Consumer has paid an amount of **₹ 23,45,71,800/-** (Rupees Twenty Three Crores Forty Five Lakhs Seventy One Thousand and Eight Hundred only) towards Capital Contribution charges as per Annexure-I (I) vide Page No.6 of this agreement which is Non-Refundable.

Whereas the Bulk Consumer has deposited an amount equals to 183 days of Consumption charges for agreement quantity as Security Deposit i.e., **₹ 22,46,22,801/-** (Rupees Twenty Two Crores Forty Six Lakhs Twenty Two Thousand Eight Hundred and One only) as per Annexure-I (II) vide Page No.7 of this agreement.

Whereas the Supplier has agreed to supply the agreement quantity of water by charging @ **₹ 60/-** (Rupees Sixty only) per KL of water up to the agreement quantity and @ **₹ 120/-** (Rupees One Hundred and Twenty only) per KL of water consumed over and above the agreement quantity.

NOW IT IS HEREBY AGREED BY THE TWO PARTIES HERE AS FOLLOWS:

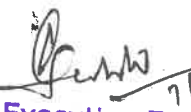
- 1) Top priority will be accorded to supply of drinking water to the public, if there is any shortage in the availability of treated water.
- 2) The agreed quantity per day (on an average) will be supplied to the Bulk Consumer during any duration of the day as per convenience of the Supplier.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested


7/11/2020
Dy. Executive Engineer-II
Water Supply
GVMC

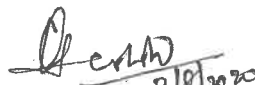
- 3) The Bulk Consumer has to make his own arrangements for arranging storage sump in their premises, the capacity of which should be at least 3 (three) times the agreed quantity per day.
- 4) The Bulk Consumer has to make his own arrangements to provide connecting main from the nearest convenient GVMC water supply main.
- 5) The bill for the water consumed will be served once in a month.
- 6) The Bulk Consumer has to pay the bill with in 15 (fifteen) days from the date of generation of bil., failing which the release of water will be stopped.
- 7) The Supplier will see that the bill reaches to the Bulk Consumer by 10th day of every month. In any case if the bill is not received by 10th day, the Bulk Consumer has to inform the same to the Supplier on the 11th day and obtain the duplicate bill.
- 8) The Bulk Consumer will be charged at least for 60% of the agreed quantity per month if the quantity of water consumed in a month is less than the 60% of agreement quantity, reckoned per month, @ ₹ 60/- per KL.
- 9) The consumer will be charged for actual quantity consumed in a month if it varies between 60% and 100% of agreed quantity, reckoned per month, @ ₹ 60/- per KL.
- 10) The consumer will be charged for water quantity consumed over and above agreement quantity, reckoned per month, @ ₹ 120/- per KL.
- 11) The consumer will be charged for actual consumption of water, even though it is less than the 60% of agreement quantity, reckoned per month, if the Supplier is solely responsible for delivery of less than 60% of agreement quantity.
- 12) The Bulk Consumer should pay the total demand amount and any part payment will not be allowed by the Supplier.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Vishakh Refinery

true copy attested


7/12/2020
Dy. Executive Engineer-II
Water Supply
GVMC

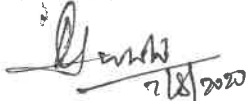
- 13) In case of any dispute on the demand raised by the Supplier, the Bulk Consumer should bring it to the notice of the Supplier with in 7 (seven) days from the receipt of demand notice, otherwise no objections will be admitted after 7 (seven) days.
- 14) Even though there is any dispute on the demand raised by the Supplier, the Bulk Consumer should pay the full amount of demand, pending settlement of the dispute through mutual understanding or arbitration and excess payment, if any, will be adjusted in subsequent bills.
- 15) In case the dispute regarding demand raised by the Supplier has to be resolved through arbitration, two arbitrators should be appointed, one by the Supplier and the other by the Bulk Consumer and award of such arbitrators is final and binding on both the parties. In the event of disagreement between the arbitrators, the opinion of any umpire to be appointed jointly, shall be final and conclusive.
- 16) If the monthly consumption charges are not paid within due date, the consumer will be disconnected without issuing any notice and penalty of ₹ 10,000/- will be levied on the Bulk Consumer for reconnection after clearing the bill.
- 17) In any case if a Bulk Consumer is disconnected, the Bulk Consumer should be charged an interest @ 18% from due date to the date of actual payment over the outstanding due amount, in addition to the penalty of ₹ 10,000/-, for reconnection.
- 18) The metering and connected automation will be arranged immediately at the tapping point of GVMC water supply main.
- 19) The Bulk Consumer has to bear the cost of interconnection work, meters, valves, installation and automation etc., and see that their bulk connection will be executed on par with the other existing bulk connections by utilizing the services of agency engaged for maintenance of entire bulk water system of the GVMC.


Signature of the Bulk Consumer


Signature of the Supplier

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V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

TRUE COPY attested


21/8/2020
Dy. Executive Engineer-II
Water Supply
GVMC

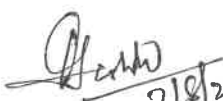
- 20) The Bulk Consumer will be charged for maintenance of meters, instrumentation and automation etc., @ 0.75% of the monthly bill, which may be subject for revision as and when necessary.
- 21) The existing tariff per KL of water consumed will be liable for revision as and when deemed necessary by the governing council of GVMC.
- 22) The Bulk Consumer will be informed of the tariff revision well in advance by 2 months by directly addressing through a letter.
- 23) The consumer has to pay the difference balance amount of 183 days Advance Consumption charges of Security Deposit whenever the tariff revision takes place, even though the renewal of agreement is not due by that time.
- 24) This bulk water supply agreement between the Supplier and the Bulk Consumer will be in force up to **31st MARCH 2025** or **Enhancement of Bulk Water Supply charges by GVMC** whichever is earlier from the date of entering in to this agreement.
- 25) The Supplier will take all measures to ensure smooth and regular supply of water to the Bulk Consumer but the Supplier shall not be responsible for loss of property or life or what so ever it may be due to shortage in supply due to accidental or unforeseen circumstances or matters beyond the control of GVMC.
- 26) The Supplier will inform in advance to the Bulk Consumer about the stoppage of water for maintenance of various water supply installations.
- 27) The Bulk Consumer shall not resort for direct pumping from the GVMC main unless otherwise it is permitted by the Supplier.
- 28) The Bulk Consumer should approach the Supplier well in advance before the expiry date, for renewal of agreement.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
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H.P.C.L - Visakh Refinery

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21/8/2020
Dy. Executive Engineer-II
Water Supply
GVMC

- 29) In case of failure to ensure renewal of agreement by the consumer in time, the Supplier has no binding for continuation of release of water. However, if the supply is continued beyond the expiry date, the same will be charged double the normal tariff (i.e., ₹ 120/- per KL).
- 30) The water supply bye-laws as framed and amended from time to time by the GVMC, Visakhapatnam shall form part of this agreement to the extent they are consistent with the above provisions.
- 31) If the Bulk Consumer desires to cancel the agreement or reduce the agreement quantity, three (3) months prior intimation should be given to GVMC.


ANNEXURE-I

The Bulk Consumer has paid the Supplier, the following Capital Contribution charges and 183 days Advance Consumption charges, so far:

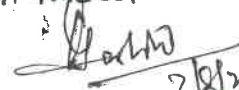
I. Capital Contribution charges: (Non-Refundable)

Sl. No.	Source	Agreed Quantity		Tariff per KL	Amount paid so far	Details
		LIGD	KL			
1)	RWD	12.00	5455.32	-	₹ 5,45,52,000/-	DD No.069447, dt.20.08.2007
2)				-		
3)	MGR	18.00	8182.98	-	₹ 6,81,90,000/-	DD.531356, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61382, dt.09.03.2015.
4)				-	₹ 3,00,00,000/-	As per the Bulk Water Supply Agreement on dt.31.12.1989.
5)	TPD	15.00	6819.15	-	₹ 8,18,29,800/-	DD.579690, SBI, 20.09.2017 Rcpt key.2017-CH-15243, dt.20.11.2017
Total		45.00	20457.45		₹ 23,45,71,800/-	


Signature of the Bulk Consumer

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Signature of the Supplier

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V. RATANRAJ
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Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

true copy attested #

7/12/2020
Dy. Executive Engineer-II
Water Supply
GVMC


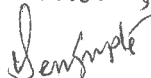
II. Advance Consumption charges: (Refundable)

Sl. No.	Source	Agreed Quantity		Tariff per KL	For a minimum period of	Amount	Details
		LGPLD	KL				
1)	RWD	12.00	5455.32	₹ 60/-	183 days	₹ 5,98,99,413.60	-
2)	MGR	18.00	8182.98	₹ 60/-	183 days	₹ 8,98,49,120.40	-
3)	TPD	15.00	6819.15	₹ 60/-	183 days	₹ 7,48,74,267.00	-
Total		45.00	20457.45	-	-	₹ 22,46,22,801.00	
Available Advance Consumption charges (Security Deposit) with GVMC							
1)	-	-	-	₹ 83,46,150/-		Chq Nos. VM-18935 dt.12.07.1972, VM-45434 dt.17.10.1979, VM-4676 dt.16.02.1984, VM-5096 dt.09.03.1984, VM-43079 dt.23.08.1989, VM-46424 dt.12.01.1990, dd.082776 dt.29.04.1997	
2)	-	-	-	₹ 3,32,76,720/-		Cheque No.069445, dt.20.08.2007.	
3)	-	-	-	₹ 66,53,344/-		Cheque No.073695, dt.25.01.2008.	
4)	-	-	-	₹ 5,05,99,794/-		Rcpt Key. 2013-CH-32942, 32944, 32945. Dt.06.07.2013.	
5)	-	-	-	₹ 1,79,69,429/-		DD.531357, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61384, dt.09.03.2015	
				₹ 7,78,27,657/-		DD.017509, IDBI, dt.24.03.2016 Rcpt Key.2015-CH-19551, dt.24.03.2016	
6)	-	-	-	₹ 2,99,49,707/-		DD.579752, SBI, 11.10.2017 Rcpt key.2017-CH-15245, dt.20.11.2017	
Total Amount				₹ 22,46,22,801/-			

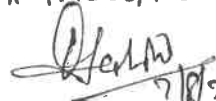

Signature of the Bulk Consumer

वी. रतनराज
V. RATANRAJ
कार्यकारी निर्देशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

Witness:

- 1) 
(A.T. Naidu, GM(TE)-Tech, HPCL-VR.)
- 2) 
(KRISANU SENGUPTA, CGM-FINANCE, VR.)




True copy attested


7/11/2020
Dy. Executive Engineer-II
Water Supply
GVMC

7/4

Signature of the Supplier

Witness:

- 1) 
(E.E.)
- 2) 
(Dy.E.E.)
- 3) 
(A.E.)



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

CH 995103

No. 27 / GVMC - BULK WATER / 2020-21 / Dt. 01.06.2020
Sold to V. Ratan Raj, Sr. V.S. Ratnakumar
or Whom V. Ratna Ch. Refinery Hindustan Petroleum Corporation Limited, Visakhapatnam


M. KANYA KUMAR
LICENCED STAMP VENDOR
No. 07/1/07/2011 RL No. 03/11/07/20
30-10-24, Pidaparthivam Street
Agardens, Visakhapatnam.
Cell: 8121537112

RENEWAL OF BULK WATER SUPPLY AGREEMENT (TPD)

This agreement is made on the 01st day of JUNE 2020 by and in between the Greater Visakhapatnam Municipal Corporation, Visakhapatnam (GVMC) represented by the COMMISSIONER, here in after referred to as the "SUPPLIER", which expression unless repugnant to the context shall mean and include his successors in office and assigns on one part.

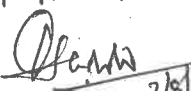
And

Hindustan Petroleum Corporation Limited, a company registered under the Companies Act, 1956 having its Registered Office at 17, Jamshedji Tata Road, Mumbai-400020 and a Refinery at Visakhapatnam, having their office at Malkapuram, Visakhapatnam (Visakh Refinery), here in after referred to as the "BULK CONSUMER", which expression unless repugnant to the context shall mean and include their heirs, successors, administrators, legal representatives and assigns on the other part.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested #

27/6/2020
Dy. Executive Engineer-II
Water Supply
GVMC

Whereas the Bulk Consumer had requested the Supplier for supply of **6819.15 KL (15 LGPD)** per day of Clear Water to **Hindustan Petroleum Corporation Limited** and has furnished guarantee for minimum consumption of **60%** of the allotted quantity per month.

Whereas the Supplier has agreed to supply of **6819.15 KL** Clear Water per day (on an average) from their Thatipudi (TPD) Source to the sump in the premises of Bulk Consumer.

Out of the agreed 15.00 LGPD supply from the Thatipudi (TPD) source, 14.00 LGPD of water is to be supplied to the bulk consumer at HPCL Visakh Refiner point and 1.00 LGPD at their Waltair Park Housing Complex from High Level Reservoir at Waltair Park Point.

Whereas the Bulk Consumer has paid an amount of **₹ 23,45,71,800/-** (Rupees Twenty Three Crores Forty Five Lakhs Seventy One Thousand and Eight Hundred only) towards Capital Contribution charges as per Annexure-I (I) vide Page No.7 of this agreement which is Non-Refundable.

Whereas the Bulk Consumer has deposited an amount equals to 183 days of Consumption charges for agreement quantity as Security Deposit i.e., **₹ 22,46,22,801/-** (Rupees Twenty Two Crores Forty Six Lakhs Twenty Two Thousand Eight Hundred and One only) as per Annexure-I (II) vide Page No.8 of this agreement.

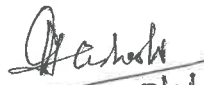
Whereas the Supplier has agreed to supply the agreement quantity of water by charging @ **₹ 60/-** (Rupees Sixty only) per KL of water up to the agreement quantity and @ **₹ 120/-** (Rupees One Hundred and Twenty only) per KL of water consumed over and above the agreement quantity.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि. रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested


7/8/2020

Dy. Executive Engineer-II
Water Supply
GVMC

NOW IT IS HEREBY AGREED BY THE TWO PARTIES HERE AS FOLLOWS:

- 1) Top priority will be accorded to supply of drinking water to the public, if there is any shortage in the availability of treated water.
- 2) The agreed quantity per day (on an average) will be supplied to the Bulk Consumer during any duration of the day as per convenience of the Supplier.
- 3) The Bulk Consumer has to make his own arrangements for arranging storage sump in their premises, the capacity of which should be at least 3 (three) times the agreed quantity per day.
- 4) The Bulk Consumer has to make his own arrangements to provide connecting main from the nearest convenient GVMC water supply main.
- 5) The bill for the water consumed will be served once in a month.
- 6) The Bulk Consumer has to pay the bill with in 15 (fifteen) days from the date of generation of bill, failing which the release of water will be stopped.
- 7) The Supplier will see that the bill reaches to the Bulk Consumer by 10th day of every month. In any case if the bill is not received by 10th day, the Bulk Consumer has to inform the same to the Supplier on the 11th day and obtain the duplicate bill.
- 8) The Bulk Consumer will be charged at least for 60% of the agreed quantity per month if the quantity of water consumed in a month is less than the 60% of agreement quantity, reckoned per month, @ ₹ 60/- per KL.
- 9) The consumer will be charged for actual quantity consumed in a month if it varies between 60% and 100% of agreed quantity, reckoned per month, @ ₹ 60/- per KL.



Signature of the Bulk Consumer

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Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

3/8


Signature of the Supplier

TRUE COPY attested

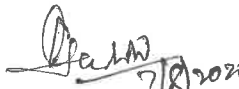

2/8/2022
Dy. Executive Engineer-II
Water Supply
GVMC

- 10) The consumer will be charged for water quantity consumed over and above agreement quantity, reckoned per month, @ ₹ 120/- per KL.
- 11) The consumer will be charged for actual consumption of water, even though it is less than the 60% of agreement quantity, reckoned per month, if the Supplier is solely responsible for delivery of less than 60% of agreement quantity.
- 12) The Bulk Consumer should pay the total demand amount and any part payment will not be allowed by the Supplier.
- 13) In case of any dispute on the demand raised by the Supplier, the Bulk Consumer should bring it to the notice of the Supplier with in 7 (seven) days from the receipt of demand notice, otherwise no objections will be admitted after 7 (seven) days.
- 14) Even though there is any dispute on the demand raised by the Supplier, the Bulk Consumer should pay the full amount of demand, pending settlement of the dispute through mutual understanding or arbitration and excess payment, if any, will be adjusted in subsequent bills.
- 15) In case the dispute regarding demand raised by the Supplier has to be resolved through arbitration, two arbitrators should be appointed, one by the Supplier and the other by the Bulk Consumer and award of such arbitrators is final and binding on both the parties. In the event of disagreement between the arbitrators, the opinion of any umpire to be appointed jointly, shall be final and conclusive.
- 16) If the monthly consumption charges are not paid within due date, the consumer will be disconnected without issuing any notice and penalty of ₹ 10,000/- will be levied on the Bulk Consumer for reconnection after clearing the bill.


Signature of the Bulk Consumer


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TRUE COPY attested


Executive Engineer-II
Water Supply
GVMC


Signature of the Supplier

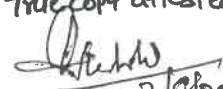
- 17) In any case if a Bulk Consumer is disconnected, the Bulk Consumer should be charged an interest @ 18% from due date to the date of actual payment over the outstanding due amount, in addition to the penalty of ₹ 10,000/-, for reconnection.
- 18) The metering and connected automation will be arranged immediately at the tapping point of GVMC water supply main.
- 19) The Bulk Consumer has to bear the cost of interconnection work, meters, valves, installation and automation etc., and see that their bulk connection will be executed on par with the other existing bulk connections by utilizing the services of agency engaged for maintenance of entire bulk water system of the GVMC.
- 20) The Bulk Consumer will be charged for maintenance of meters, instrumentation and automation etc., @ 0.75% of the monthly bill, which may be subject for revision as and when necessary.
- 21) The existing tariff per KL of water consumed will be liable for revision as and when deemed necessary by the governing council of GVMC.
- 22) The Bulk Consumer will be informed of the tariff revision well in advance by 2 months by directly addressing through a letter.
- 23) The consumer has to pay the difference balance amount of 183 days Advance Consumption charges of Security Deposit whenever the tariff revision takes place, even though the renewal of agreement is not due by that time.
- 24) This bulk water supply agreement between the Supplier and the Bulk Consumer will be in force up to **31st MARCH 2025** or **Enhancement of Bulk Water Supply charges by GVMC** whichever is earlier from the date of entering in to this agreement.


Signature of the Bulk Consumer

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Executive Director - VR
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H.P.C.L - Visakh Refinery


5/8

Signature of the Supplier

True copy attested #

7/8/2020
Dy. Executive Engineer-II
Water Supply
GVMC

- 25) The Supplier will take all measures to ensure smooth and regular supply of water to the Bulk Consumer but the Supplier shall not be responsible for loss of property or life or what so ever it may be due to shortage in supply due to accidental or unforeseen circumstances or matters beyond the control of GVMC.
- 26) The Supplier will inform in advance to the Bulk Consumer about the stoppage of water for maintenance of various water supply installations.
- 27) The Bulk Consumer shall not resort for direct pumping from the GVMC main unless otherwise it is permitted by the Supplier.
- 28) The Bulk Consumer should approach the Supplier well in advance before the expiry date, for renewal of agreement.
- 29) In case of failure to ensure renewal of agreement by the consumer in time, the Supplier has no binding for continuation of release of water. However, if the supply is continued beyond the expiry date, the same will be charged double the normal tariff (i.e., ₹ 120/- per KL).
- 30) The water supply bye-laws as framed and amended from time to time by the GVMC, Visakhapatnam shall form part of this agreement to the extent they are consistent with the above provisions.
- 31) If the Bulk Consumer desires to cancel the agreement or reduce the agreement quantity, three (3) months prior intimation should be given to GVMC.

TRUE COPY attested


7/12/2020
Dy. Executive Engineer-II
Water Supply
GVMC


Signature of the Bulk Consumer

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H.P.C.L - Visakh Refinery


Signature of the Supplier

ANNEXURE-I

The Bulk Consumer has paid the Supplier, the following Capital Contribution charges and 183 days Advance Consumption charges, so far:

I. Capital Contribution charges: (Non-Refundable)

Sl. No.	Source	Agreed Quantity		Tariff per KL	Amount paid so far	Details
		LIGD	KL			
1)	RWD	12.00	5455.32	-	₹ 5,45,52,000/-	DD No.069447, dt.20.08.2007
2)				-		
3)	MGR	18.00	8182.98	-	₹ 6,81,90,000/-	DD.531356, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61382, dt.09.03.2015.
4)				-	₹ 3,00,00,000/-	As per the Bulk Water Supply Agreement on dt.31.12.1989.
5)	TPD	15.00	6819.15	-	₹ 8,18,29,800/-	DD.579690, SBI, 20.09.2017 Rcpt key.2017-CH-15243, dt.20.11.2017
Total		45.00	20457.45		₹ 23,45,71,800/-	

True copy attested


7/11/2020
Dy. Executive Engineer-II
Water Supply
GVMC


Signature of the Bulk Consumer

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery


Signature of the Supplier



II. Advance Consumption charges: (Refundable)

Sl. No.	Source	Agreed Quantity		Tariff per KL	For a minimum period of	Amount	Details
		LGPD	KL				
1)	RWD	12.00	5455.32	₹ 60/-	183 days	₹ 5,98,99,413.60	-
2)	MGR	18.00	8182.98	₹ 60/-	183 days	₹ 8,98,49,120.40	-
3)	TPD	15.00	6819.15	₹ 60/-	183 days	₹ 7,48,74,267.00	-
	Total	45.00	20457.45	-	-	₹ 22,46,22,801.00	
Available Advance Consumption charges (Security Deposit) with GVMC							
1)	-	-	-	₹ 83,46,150/-		Chq Nos. VM-18935 dt.12.07.1972, VM-45434 dt.17.10.1979, VM-4676 dt.16.02.1984, VM-5096 dt.09.03.1984, VM-43079 dt.23.08.1989, VM-46424 dt.12.01.1990, dd.082776 dt.29.04.1997	
2)	-	-	-	₹ 3,32,76,720/-		Cheque No.069445, dt.20.08.2007.	
3)	-	-	-	₹ 66,53,344/-		Cheque No.073695, dt.25.01.2008.	
4)	-	-	-	₹ 5,05,99,794/-		Rcpt Key. 2013-CH-32942, 32944, 32945. Dt.06.07.2013.	
5)	-	-	-	₹ 1,79,69,429/-		DD.531357, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61384, dt.09.03.2015.	
	-	-	-	₹ 7,78,27,657/-		DD.017509, IDBI, dt.24.03.2016 Rcpt Key.2015-CH-19551, dt.24.03.2016	
6)	-	-	-	₹ 2,99,49,707/-		DD.579752, SBI, 11.10.2017 Rcpt key.2017-CH-15245, dt.20.11.2017	
			Total Amount	₹ 22,46,22,801/-			



Signature of the Bulk Consumer


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V. RATANDRAJ
कार्यकारी निदेशक - एच.पी.एल.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

Witness:


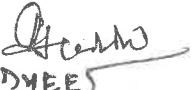

- 1) 
(A.T. Naidu, GM(1/c) - Tech, HPCL-VR)
- 2) 
(KRISANU SENGUPTA, CGM - FINANCE, VR)

TRUE COPY attested


Dy. Executive Engineer-II
Water Supply
GVMC

8/8

Signature of the Supplier

Witness:

- 1) 
(EE)
- 2) 
(DYEE)
- 3) 
(ME)



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

M. Kanya Kumari
CH 995101
M. KANYA KUMA
LICENCED STAMP VENDOR
L.No. 03/11/07/2011 RL.No. 03/11/07
30-10-24, Padaparthivari St
Dabagardens, Visakhapatnam
Cell: 8121537112

No. 25/2020 Rs. 100/- Dt. 14/06/2020
Issued to V. Ratan Raj, S/o. V.S. Ratan Kumar
for Whom V. Ratna Refinery Hindustan Petroleum
Corporation Limited
RENEWAL OF BULK WATER SUPPLY AGREEMENT (RWD)

This agreement is made on the 01st day of JUNE 2020 by and in between the Greater Visakhapatnam Municipal Corporation, Visakhapatnam (GVMC) represented by the COMMISSIONER, here in after referred to as the "SUPPLIER", which expression unless repugnant to the context shall mean and include his successors in office and assigns on one part.

And

Hindustan Petroleum Corporation Limited, a company registered under the Companies Act, 1956 having its Registered Office at 17, Jamshedji Tata Road, Mumbai-400020 and a Refinery at Visakhapatnam, having their office at Malkapuram, Visakhapatnam (Visakh Refinery), here in after referred to as the "BULK CONSUMER", which expression unless repugnant to the context shall mean and include their heirs, successors, administrators, legal representatives and assigns on the other part.

V. Ratanraj
Signature of the Bulk Consumer

M. Kanya Kumari
Signature of the Supplier

వీ. రతనరాజు
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh. Refinery

True copy attested #
[Signature]
21/6/2020
Jy. Executive Engineer-II
Water Supply
GVMC

Whereas the Bulk Consumer had requested the Supplier for supply of 5455.32 KL (12 LGPD) per day of Clear Water to Hindustan Petroleum Corporation Limited and has furnished guarantee for minimum consumption of 60% of the allotted quantity per month.

Whereas the Supplier has agreed to supply of 5455.32 KL Clear Water per day (on an average) from their Raiwada (RWD) Source to the sump in the premises of Bulk Consumer.

Whereas the Bulk Consumer has paid an amount of ₹ 23,45,71,800/- (Rupees Twenty Three Crores Forty Five Lakhs Seventy One Thousand and Eight Hundred only) towards Capital Contribution charges as per Annexure-I (I) vide Page No.6 of this agreement which is Non-Refundable.

Whereas the Bulk Consumer has deposited an amount equals to 183 days of Consumption charges for agreement quantity as Security Deposit i.e., ₹ 22,46,22,801/- (Rupees Twenty Two Crores Forty Six Lakhs Twenty Two Thousand Eight Hundred and One only) as per Annexure-I (II) vide Page No.7 of this agreement.

Whereas the Supplier has agreed to supply the agreement quantity of water by charging @ ₹ 60/- (Rupees Sixty only) per KL of water up to the agreement quantity and @ ₹ 120/- (Rupees One Hundred and Twenty only) per KL of water consumed over and above the agreement quantity.

NOW IT IS HEREBY AGREED BY THE TWO PARTIES HERE AS FOLLOWS:

- 1) Top priority will be accorded to supply of drinking water to the public, if there is any shortage in the availability of treated water.
- 2) The agreed quantity per day (on an average) will be supplied to the Bulk Consumer during any duration of the day as per convenience of the Supplier.



Signature of the Bulk Consumer

2/7


Signature of the Supplier

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V. RATANRAJ
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एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

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7/12/2020
Dy. Executive Engineer-II
Water Supply
GVMC

- 3) The Bulk Consumer has to make his own arrangements for arranging storage sump in their premises, the capacity of which should be at least 3 (three) times the agreed quantity per day.
- 4) The Bulk Consumer has to make his own arrangements to provide connecting main from the nearest convenient GVMC water supply main.
- 5) The bill for the water consumed will be served once in a month.
- 6) The Bulk Consumer has to pay the bill within 15 (fifteen) days from the date of generation of bill, failing which the release of water will be stopped.
- 7) The Supplier will see that the bill reaches to the Bulk Consumer by 10th day of every month. In any case if the bill is not received by 10th day, the Bulk Consumer has to inform the same to the Supplier on the 11th day and obtain the duplicate bill.
- 8) The Bulk Consumer will be charged at least for 60% of the agreed quantity per month if the quantity of water consumed in a month is less than the 60% of agreement quantity, reckoned per month, @ ₹ 60/- per KL.
- 9) The consumer will be charged for actual quantity consumed in a month if it varies between 60% and 100% of agreed quantity, reckoned per month, @ ₹ 60/- per KL.
- 10) The consumer will be charged for water quantity consumed over and above agreement quantity, reckoned per month, @ ₹ 120/- per KL.
- 11) The consumer will be charged for actual consumption of water, even though it is less than the 60% of agreement quantity, reckoned per month, if the Supplier is solely responsible for delivery of less than 60% of agreement quantity.
- 12) The Bulk Consumer should pay the total demand amount and any part payment will not be allowed by the Supplier.


Signature of the Bulk Consumer


Signature of the Supplier

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H.P.C.L. - Visakh Refinery

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7/11/2020
Dy. Executive Engineer-II
Water Supply
GVMC

- 13) In case of any dispute on the demand raised by the Supplier, the Bulk Consumer should bring it to the notice of the Supplier with in 7 (seven) days from the receipt of demand notice, otherwise no objections will be admitted after 7 (seven) days.
- 14) Even though there is any dispute on the demand raised by the Supplier, the Bulk Consumer should pay the full amount of demand, pending settlement of the dispute through mutual understanding or arbitration and excess payment, if any, will be adjusted in subsequent bills.
- 15) In case the dispute regarding demand raised by the Supplier has to be resolved through arbitration, two arbitrators should be appointed, one by the Supplier and the other by the Bulk Consumer and award of such arbitrators is final and binding on both the parties. In the event of disagreement between the arbitrators, the opinion of any umpire to be appointed jointly, shall be final and conclusive.
- 16) If the monthly consumption charges are not paid within due date, the consumer will be disconnected without issuing any notice and penalty of ₹ 10,000/- will be levied on the Bulk Consumer for reconnection after clearing the bill.
- 17) In any case if a Bulk Consumer is disconnected, the Bulk Consumer should be charged an interest @ 18% from due date to the date of actual payment over the outstanding due amount, in addition to the penalty of ₹ 10,000/-, for reconnection.
- 18) The metering and connected automation will be arranged immediately at the tapping point of GVMC water supply main.
- 19) The Bulk Consumer has to bear the cost of interconnection work, meters, valves, installation and automation etc., and see that their bulk connection will be executed on par with the other existing bulk connections by utilizing the services of agency engaged for maintenance of entire bulk water system of the GVMC.



Signature of the Bulk Consumer

4/2


Signature of the Supplier

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एच.पी.सी.एल. - विशाख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested


7/8/2020
Dy. Executive Engineer-II
Water Supply
GVMC

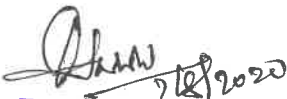
- 20) The Bulk Consumer will be charged for maintenance of meters, instrumentation and automation etc., @ 0.75% of the monthly bill, which may be subject for revision as and when necessary.
- 21) The existing tariff per KL of water consumed will be liable for revision as and when deemed necessary by the governing council of GVMC.
- 22) The Bulk Consumer will be informed of the tariff revision well in advance by 2 months by directly addressing through a letter.
- 23) The consumer has to pay the difference balance amount of 183 days Advance Consumption charges of Security Deposit whenever the tariff revision takes place, even though the renewal of agreement is not due by that time.
- 24) This bulk water supply agreement between the Supplier and the Bulk Consumer will be in force up to **31st MARCH 2025** or **Enhancement of Bulk Water Supply charges by GVMC** whichever is earlier from the date of entering in to this agreement.
- 25) The Supplier will take all measures to ensure smooth and regular supply of water to the Bulk Consumer but the Supplier shall not be responsible for loss of property or life or what so ever it may be due to shortage in supply due to accidental or unforeseen circumstances or matters beyond the control of GVMC.
- 26) The Supplier will inform in advance to the Bulk Consumer about the stoppage of water for maintenance of various water supply installations.
- 27) The Bulk Consumer shall not resort for direct pumping from the GVMC main unless otherwise it is permitted by the Supplier.
- 28) The Bulk Consumer should approach the Supplier well in advance before the expiry date, for renewal of agreement.


Signature of the Bulk Consumer


Signature of the Supplier

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - वि. राख रिफाइनरी
H.P.C.L - Visakh Refinery

True copy attested


Dy. Executive Engineer-II
Water Supply
GVMC

- 29) In case of failure to ensure renewal of agreement by the consumer in time, the Supplier has no binding for continuation of release of water. However, if the supply is continued beyond the expiry date, the same will be charged double the normal tariff (i.e., ₹ 120/- per KL).
- 30) The water supply bye-laws as framed and amended from time to time by the GVMC, Visakhapatnam shall form part of this agreement to the extent they are consistent with the above provisions.
- 31) If the Bulk Consumer desires to cancel the agreement or reduce the agreement quantity, three (3) months prior intimation should be given to GVMC.

ANNEXURE-I

The Bulk Consumer has paid the Supplier, the following Capital Contribution charges and 183 days Advance Consumption charges, so far:

I. Capital Contribution charges: (Non-Refundable)

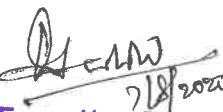
Sl. No	Source	Agreed Quantity		Tariff per KL	Amount paid so far	Details
		LGPD	KLD			
1)	RWD	12.00	5455.32	-		
2)				-	₹ 5,45,52,000/-	DD No.069447, dt.20.08.2007
3)	MGR	18.00	8182.98	-	₹ 6,81,90,000/-	DD.531356, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61382, dt.09.03.2015.
4)				-	₹ 3,00,00,000/-	As per the Bulk Water Supply Agreement on dt.31.12.1989.
5)	TPD	15.00	6819.15	-	₹ 8,18,29,800/-	DD.579690, SBI, 20.09.2017 Rcpt key.2017-CH-15243, dt.20.11.2017
Total		45.00	20457.45		₹ 23,45,71,800/-	


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H.P.C.L - Visakh Refinery



Signature of the Supplier

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Dy. Executive Engineer-II
Water Supply
GVMC

II. Advance Consumption charges: (Refundable)



Sl. No.	Source	Agreed Quantity		Tariff per KL	For a minimum period of	Amount	Details
		LGPD	KLD				
1)	RWD	12.00	5455.32	₹ 60/-	183 days	₹ 5,98,99,413.60	-
2)	MGR	18.00	8182.98	₹ 60/-	183 days	₹ 8,98,49,120.40	-
3)	TPD	15.00	6819.15	₹ 60/-	183 days	₹ 7,48,74,267.00	-
	Total	45.00	20457.45	-	-	₹ 22,46,22,801.00	-
Available Advance Consumption charges (Security Deposit) with GVMC							
1)	-	-	-	₹ 83,46,150/-		Chq Nos. VM-18935 dt.12.07.1972, VM-45434 dt.17.10.1979, VM-4676 dt.16.02.1984, VM-5096 dt.09.03.1984, VM-43079 dt.23.08.1989, VM-46424 dt.12.01.1990, dd.082776 dt.29.04.1997	
2)	-	-	-	₹ 3,32,76,720/-		Cheque No.069445, dt.20.08.2007.	
3)	-	-	-	₹ 66,53,344/-		Cheque No.073695, dt.25.01.2008.	
4)	-	-	-	₹ 5,05,99,794/-		Rcpt Key. 2013-CH-32942, 32944, 32945. Dt.06.07.2013.	
5)	-	-	-	₹ 1,79,69,429/-		DD.531357, SBI, dt.03.03.2015 Rcpt Key.2014-CH-61384, dt.09.03.2015.	
	-	-	-	₹ 7,78,27,657/-		DD.017509, IDBI, dt.24.03.2016 Rcpt Key.2015-CH-19551, dt.24.03.2016	
6)	-	-	-	₹ 2,99,49,707/-		DD.579752, SBI, 11.10.2017 Rcpt key.2017-CH-15245, dt.20.11.2017	
			Total Amount	₹ 22,46,22,801/-			





Signature of the Bulk Consumer

वी. रतनराज
V. RATANRAJ
कार्यकारी निदेशक - वि.रि.
Executive Director - VR
एच.पी.सी.एल. - विशाख रिफाइनरी
Witness: H.P.C.L - Visakh Refinery



Signature of the Supplier

Witness:

- 1) 
(A.T. Naidu, GM (I/c) - Tech., HPCL-VR)
- 2) 
(KRISANU SENGUPTA, CGM - FINANCE, VR)

- 1) 
(EE)
- 2) 
(DYEE)
- 3) 
(AE)

TRUE COPY attested


7/8/2020
Dy. Executive Engineer-II
Water Supply
GVMC

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance:Apr 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	Apr-25	30	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
MH	51.6	0.13	69.20	Propylene	2.8	0.005	0.004	0.10
KG DWN	65.8	0.05	34.23	LPG	46.5	0.02	0.01	4.10
Clov	2.9	0.26	7.73	Naphtha	37.7	0.28	0.03	11.50
Quaiboe	154.3	0.12	188.21	MS EVI	216.4	0.001	0.001	1.45
Amenam Blend	96.8	0.09	90.99	ATF	11.5	0.30	0.20	22.72
Dalia	123.9	0.53	651.80					
Nemba	66.0	0.32	207.82	HSD (1 Wt% S)	32.5			
Forcados	81.8	0.18	143.08	HPCK (LS SKO)	14.9	0.10	0.0001	0.01
High Sulphur :				SKO	0.0			
CPC Blend	2.0	0.57	11.64	BS-6 HSD	652.7	0.001	0.001	3.98
Sib Lt	128.1	0.58	748.2	HFHSD	3.2	0.20	0.09	2.85
Murban	171.2	0.77	1315.8	LDO	11.7	-	0.92	108.24
Basrah Heavy	44.3	4.00	1771.8	JBO	1.2	-	1.50	17.47
Basrah Medium	219.3	3.00	6578.6	MTO	1.0	0.11	0.03	0.24
Varandey	72.3	0.49	350.5	FO	142.6	4.00	2.60	3708.43
Das	131.2	1.08	1412.1	VLS FO	-1.8	0.50	0.47	-8.31
				LSFO	12.6	-	0.75	94.50
				LSHS	18.0	-	0.44	78.86
				BIT 80/100 & 60/70	68.1	-	5.96	4061.20
				Sulphur	5.3		100.00	5332.50
				ISD	5.7	-	0.41	23.41
				VGO	0.00	-	1.01	
				Fuel	97.01	-	0.12	116.42
				Loss	6.87	-	0.03	2.06
TOTAL	1411.5		13581.73	TOTAL	1386.6			13581.73

SUMMARY

Sulphur in: **13581.73 MT**

Sulphur out: **13581.73 MT**

Unaccounted sulphur quantity **0.00 MT**

This unaccounted quantity plus the sulphur present in "Fuel" will be released in the form of SO2= **7.9 MT Per day**

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance: May 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	May-25	31	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
MH	35.5	0.17	60.30	Propylene	5.0	0.005	0.004	0.19
ERHA	127.9	0.18	232.81	LPG	43.5	0.02	0.01	4.00
Amenam	1.8	0.09	1.68	Naphtha	46.7	0.28	0.03	14.86
Quaiboe	40.0	0.12	48.83	MS EVI	204.1	0.001	0.0004	0.78
Dalia	7.9	0.53	41.55	ATF	23.8	0.30	0.12	28.11
Rabi Lt	100.9	0.14	141.30					
Nemba	66.3	0.32	208.83	HSD (1 Wt% S)	99.3		0.01	9.93
Forcados	171.4	0.18	299.97	HPCK (LS SKO)	2.1	0.10	0.0001	0.00
USAN	140.91	0.31	436.83	SKO				
High Sulphur :				BS-6 HSD	618.9	0.001	0.001	3.90
CPC Blend	126.9	0.58	736.26	HFHSD	2.3	0.20	0.09	2.01
Sib Lt	11.4	0.58	66.3	LDO	16.7	-	1.07	178.25
Murban	2.6	0.78	20.4	JBO	0.7	-	1.50	10.70
Basrah Heavy	10.0	4.03	403.6	MTO	1.1	0.11	0.01	0.06
Basrah Medium	205.1	3.02	6186.7	FO	172.5	4.00	2.04	3519.16
Varandey	202.1	0.46	925.4	VLS FO	30.7	0.50	0.42	127.20
Arab Ex Lt			0.0	LSFO	19.4	-	0.76	147.44
Ural	106.4	1.69	1798.7	LSHS	-9.6	-	0.45	-43.20
Hungo	87.1	0.603	525.0	BIT 80/100 & 60/70	57.5	-	4.72	2712.18
				Sulphur	4.9		100.00	4874.66
				ISD	101.4	-	0.41	415.74
				VGO	0.00	-	1.01	
				Fuel	102.44	-	0.12	126.52
				Loss	7.09	-	0.03	2.13
TOTAL	1444.3		12134.48	TOTAL	1550.6			12134.62
SUMMARY								
Sulphur in:			12134.48 MT					
Sulphur out:			12134.62 MT					
Unaccounted sulphur quantity			-0.13 MT					
This unaccounted quantity plus the sulphur present in "Fuel" will be released in the form of SO2=							8.3	MT Per day

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance:Jun 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	Jun-25	30	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
MH	20.3	0.17	34.50	Propylene	4.9	0.005	0.004	0.18
KG DWN	45.5	0.05	23.68	LPG	38.4	0.02	0.01	3.26
Bonga	57.3	0.20	114.60	Naphtha	68.6	0.28	0.03	19.55
Quaiboe	86.6	0.12	105.67	MS EVI	171.0	0.001	0.001	1.06
Amenam Blend				ATF	17.2	0.30	0.13	22.07
Rabi Lt	22.8	0.14	31.99					
Nemba				HSD (1 Wt% S)	99.3		0.01	9.93
Forcados	148.5	0.18	259.96	HPCK (LS SKO)	3.1	0.10	0.0038	0.12
High Sulphur :				SKO				
CPC Blend	0.6	0.58	3.27	BS-6 HSD	561.7	0.001	0.001	3.09
ESP	92.2	0.69	636.2	HFHSD	2.3	0.20	0.06	1.28
Murban	111.2	0.78	864.9	LDO	10.5	-	0.89	92.94
Basrah Heavy	21.2	4.03	852.9	JBO	0.7	-	1.50	11.20
Basrah Medium	160.4	3.06	4904.3	MTO	1.3	0.11	0.01	0.06
Varandey	95.1	0.50	475.4	FO	184.9	4.00	1.44	2662.56
Arab Ex Lt	138.1	0.50	690.5	VLS FO	-4.1	0.50	0.42	-16.98
Ural	255.5	1.74	4446.4	LSFO	9.0	-	0.75	67.50
Hungo	44.3	0.6	265.9	LSHS	-0.2	-	0.49	-0.78
				BIT 80/100 & 60/70	88.3	-	5.55	4900.65
				Sulphur	5.7		100.00	5680.00
				ISD	32.9	-	0.41	134.89
				VGO	0.00	-	1.01	
				Fuel	95.05	-	0.12	115.01
				Loss	7.31	-	0.03	2.19
TOTAL	1299.7		13710.17	TOTAL	1397.9			13709.79

SUMMARY

Sulphur in: **13710.17 MT**

Sulphur out: **13709.79 MT**

Unaccounted sulphur quantity **0.37 MT**

This unaccounted quantity plus the sulphur present in "Fuel" will be released in the form of SO2=

7.8 MT Per day

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance:Jul 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	Jul-25	31	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
Ravva	3.9	0.17	6.57	Propylene	5.1	0.005	0.004	0.19
KGN	11.9	0.04	5.02	LPG	42.6	0.02	0.01	3.83
Bonga	206.5	0.29	598.78	Naphtha	82.7	0.28	0.03	23.32
Quaiboe	127.7	0.16	204.37	MS EVI	206.2	0.001	0.001	1.13
Rabi Lt	3.1	0.14	4.28	ATF	14.8	0.30	0.06	8.87
Forcados	59.4	0.16	92.15					
High Sulphur :								
CPC Blend	4.5	0.58	26.33	HSD (1 W% S)	32.4		0.01	3.24
ESP	7.6	0.68	51.1	HPCK (LS SKO)	4.0	0.10	0.0038	0.15
Murban	406.1	0.75	3062.1	SKO				
Basrah Heavy	21.7	4.03	871.8	BS-6 HSD	639.6	0.001	0.001	3.90
Basrah Medium	106.8	3.06	3268.9	HFHSD	3.2	0.20	0.09	2.73
Varandey	1.4	0.40	5.6	LDO	17.5	-	0.87	152.40
Arab Ex Lt	137.2	0.94	1289.7	JBO	1.4	-	1.50	21.17
Ural	98.2	1.638	1608.5	MTO	1.5	0.11	0.01	0.07
Hungo	56.3	0.582	327.6	FO	155.8	4.00	2.88	4492.76
DAS BLEND	128.7	1.206	1552.4	VLS FO	8.1	0.50	0.48	38.32
				LSFO	2.1	-	0.75	15.75
				LSHS	0.9	-	0.49	4.40
				BIT 80/100 & 60/70	29.1	-	5.55	1612.58
				Sulphur	6.4		100.00	6356.84
				ISD	26.8	-	0.41	109.88
				VGO	0.00	-	1.01	
TOTAL	1381.1		12975.26	Fuel	101.04	-	0.12	122.25
				Loss	7.32	-	0.03	2.19
				TOTAL	1388.4			12975.99
SUMMARY								
Sulphur in:			12975.26	MT				
Sulphur out:			12975.99	MT				
Unaccounted sulphur quantity			-0.73	MT				
This unaccounted quantity plus the sulphur present in "Fuel" will be released in the form of SO2=							8.0	MT Per day

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance:Aug 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	Aug-25	31	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
Antan	130.4	0.31	401.53	Propylene	5.1	0.005	0.004	0.19
KGN	64.6	0.04	27.11	LPG	43.0	0.02	0.01	3.87
Bonga	145.1	0.29	416.55	Naphtha	20.7	0.28	0.03	5.83
Quaiboe	1.4	0.16	2.27	MS EVI	247.2	0.001	0.001	1.36
Nemba	69.3	0.30	210.78	ATF	18.2	0.30	0.06	10.90
Forcados	193.8	0.18	343.07					
				HSD (1 Wt% S)	66.4		0.01	6.64
High Sulphur :				HPCK (LS SKO)	16.4	0.10	0.0038	0.62
ESP	97.2	0.66	639.8	SKO				
Murban	281.2	0.77	2159.7	BS-6 HSD	546.5	0.001	0.001	3.33
Basrah Heavy	16.1	4.03	647.2	HFHSD	1.2	0.20	0.09	1.05
Basrah Medium	90.7	3.06	2776.7	LDO	15.4	-	0.87	134.67
Ural	13.0	1.623	210.5	JBO	1.5	-	1.50	22.96
Hungo	69.1	0.5802	401.1	MTO	1.2	0.11	0.01	0.06
DAS BLEND	167.5	1.267	2121.9	FO	187.8	4.00	2.23	4186.24
				VLS FO	7.7	0.50	0.48	36.48
				LSFO	18.4	-	0.75	137.69
				LSHS	13.0	-	0.49	63.67
				BIT 80/100 & 60/70	28.4	-	3.50	992.53
				Sulphur	4.7		100.00	4720.01
				ISD	-20.8	-	0.42	-87.54
				VGO	0.00	-	1.01	
TOTAL	1339.5		10358.17	Fuel	96.2	-	0.12	115.44
				Loss	7.2	-	0.03	2.16
				TOTAL	1325.3			10358.16
SUMMARY								
Sulphur in:			10358.17 MT					
Sulphur out:			10358.16 MT					
Unaccounted sulphur quantity			0.01 MT					
This unaccounted quantity plus the sulphur present in "Fuel" will be released in the form of SO2=							7.6	MT Per day

HPCL-VISAKH REFINERY (PS&E DIVISION)

Overall Refinery Sulphur Balance:Sep 2025

	Crude run (TMT)	Sulphur content (wt%)	Sulphur in (MT)	PRODUCTS	Production (TMT)	Sep-25	30	Days
						Sulphur Standard (wt%)	Sulphur Actual (wt%)	Sulphur out (MT)
CRUDE								
Low Sulphur :								
KG DWN	44.5	0.05	21.35	Propylene	4.7	0.005	0.003	0.15
Bonny Lt	139.9	0.16	216.89	LPG	36.6	0.02	0.01	3.44
Bonga	1.0	0.29	2.92	Naphtha	15.8	0.28	0.02	3.59
Quaiboe	1.3	0.16	2.01	MS EVI	243.5	0.001	0.001	1.24
Nemba	61.8	0.30	187.91	ATF	19.2	0.30	0.09	16.33
Forcados	13.2	0.18	23.31					
Dussafu	70.9	0.13	92.16	HSD (1 Wt% S)	131.2			
Ea Blend	130.3	0.13	162.89	HPCK (LS SKO)	6.1	0.10	0.0002	0.01
Antan	4.21	0.31	12.95	SKO	0.0			
High Sulphur :				BS-6 HSD	586.1	0.001	0.001	2.93
ESPO	2.1	0.66	13.96	HFHSD	1.0	0.20	0.07	0.74
HUNGO	1.4	0.58	7.9	LDO	14.0	-	0.73	102.16
Arab Ex Lt	86.4	0.98	849.3	JBO	1.1	-	1.50	15.87
Murban	416.2	0.77	3194.0	MTO	1.6	0.11	0.03	0.45
Basrah Hvy	8.4	4.03	336.7	FO	164.2	4.00	2.84	4655.37
Basrah Medium	68.6	3.06	2100.2	VLS FO		0.50	0.36	0.00
URAL	108.8	1.64	1782.5	LSFO		-	0.75	0.00
VARANDEY	4.2	0.50	21.2	LSHS		-	0.77	0.00
DAS BLEND	100.8	1.27	1276.9	BIT 80/100 & 60/70	24.3	-	6.70	1629.21
				Sulphur	4.0		100.00	4006.24
				ISD	-64.3	-	0.41	-263.76
				VGO	0.00	-	1.01	
				Fuel (A)	89.17	-	0.14	127.51
				Loss (B)	7.05	-	0.05	3.53
TOTAL	1263.9		10305.02	TOTAL	1285.3			10305.02

SUMMARY

Sulphur in: **10305.02 MT**

Sulphur out: **10305.02 MT**

Unaccounted sulphur quantity(C) **0.00 MT**

Unaccounted quantity plus the sulphur present in "Fuel&Loss" in the form of H2S (D) = (A+B+C)/No.of Days **4.4 MT Per day**

This sulphur present in "Fuel&Loss" will be released in the form of SO2 i.e. 2 times of H2S as per stoichiometry = Dx2 **8.7 MT Per day**



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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/HPCL-VR/25-04/001

Date: 08-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Vaisakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **ACF Outlet at IETP**

SAMPLE COLLECTED BY : **SVELC**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **30-04-2025**

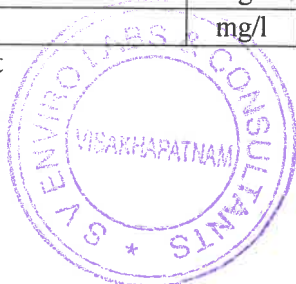
TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.85	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	9.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	33.5	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	5.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	<1.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.029	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.12	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN - E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.36	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.25	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	<0.01	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

*BDL – Below Detectable Limit

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Ref: SVELC/HPCL-VR/25-04/002

Date: 08-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **MHF Outlet**

SAMPLE COLLECTED BY : **SVELC**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **30-04-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.98	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38
3.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
4.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B

*BDL – Below Detectable Limit

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Ref: SVELC/HPCL-VR/25-05/001

Date: 29-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Vaisakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **ACF Outlet at IETP**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **21-05-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.17	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	6.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	58.0	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	7.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	3.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.038	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.21	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN - E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.89	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.74	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	0.058	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

*BDL – Below Detectable Limit

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Ref: SVELC/HPCL-VR/25-05/002

Date: 29-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **S.B.R. INLET**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **21-05-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Method followed
1.	pH	--	7.44	APHA, 4500-H+B
2.	Oil & Grease	mg/l	3.0	APHA, 5520-D, 5-38
3.	Chemical Oxygen Demand – COD	mg/l	340	APHA, 5220-B

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Ref: SVELC/HPCL-VR/25-05/003

Date: 29-05-2025

NAME AND ADDRESS : Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : EFFLUENT

SOURCE OF COLLECTION : S.B.R. OUTLET

SAMPLE COLLECTED BY : SVELC

QUANTITY OF SAMPLE : 3 lts

TYPE OF CONTAINER : 2 PVC Containers and 1 Glass Container each 1ltr

DATE OF COLLECTION : 21-05-2025

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	8.32	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	6.0	10.0	APHA, 5520-D, 5-38
3.	Chemical Oxygen Demand – COD	mg/l	92.0	125	APHA, 5220-B

*BDL – Below Detectable Limit

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Ref: SVELC/HPCL-VR/25-05/004

Date: 29-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **A.P.I. INLET**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **21-05-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Method followed
1.	pH	--	8.79	APHA, 4500-H+B
2.	Oil & Grease	mg/l	3950	APHA, 5520-D, 5-38
3.	Chemical Oxygen Demand – COD	mg/l	600	APHA, 5220-B
4.	Chloride as Cl	mg/l	2989	APHA, 4500- Cl B


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CIN: U74909AP2025PTC119098





SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

formerly known as SV ENVIRO LABS & CONSULTANTS
Researching for better Environmental Solutions



Ref: SVELC/HPCL-VR/25-05/005

Date: 29-05-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **M.H.F. OUTLET**

SAMPLE COLLECTED BY : **SVELC**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **21-05-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.89	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38

*BDL – Below Detectable Limit

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AUTHORIZED SIGNATORY

Corporate Office and Laboratory: Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam - 530012
Hyderabad Office: #402, SaiKrishna Villa, Behind CMR Shopping Mall, AS Raju Nagar, Kukatpally, Hyderabad - 500072

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SV ENVIRO LABS & RESEARCH PRIVATE LIMITED

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Ref: SVELC/HPCL-VR/25-06/001

Date: 02-07-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Vaisakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : ACF Outlet at IETP

SAMPLE COLLECTED BY : SVELC

QUANTITY OF SAMPLE : 3 lts

TYPE OF CONTAINER : 2 PVC Containers and 1 Glass Container each 1ltr

DATE OF COLLECTION : 25-06-2025

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.92	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	6.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	42.0	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	8.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	<1.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.039	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.15	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN ⁻ E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.49	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.34	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	<0.01	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

*BDL – Below Detectable Limit

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Ref: SVELC/HPCL-VR/25-06/002

Date: 02-07-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **MHF Outlet**

SAMPLE COLLECTED BY : **SVELC**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **25-06-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.83	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38
3.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
4.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B

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Ref: SV/HPCL-VR/25-07/001

Date: 08-08-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **ACF Outlet at IETP**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **29-07-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	Ph	--	7.81	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	9.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	38.0	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	6.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	<1.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.031	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.11	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN ⁻ E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.42	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.27	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	<0.01	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

*BDL – Below Detectable Limit

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Ref: SV/HPCL-VR/25-07/002

Date: 08-08-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,**
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : MHF Outlet

SAMPLE COLLECTED BY : SV

QUANTITY OF SAMPLE : 3 Its

TYPE OF CONTAINER : 2 PVC Containers and 1 Glass Container each 1ltr

DATE OF COLLECTION : 29-07-2025

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.98	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38
3.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
4.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B

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Ref: SV/HPCL-VR/25-08/001

Date: 08-09-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **ACF Outlet at IETP**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **29-08-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	Ph	--	7.73	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	7.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	45.0	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	9.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	<1.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.039	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.16	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN - E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.63	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.34	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	<0.01	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

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Ref: SV/HPCL-VR/25-08/002

Date: 08-09-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **MHF Outlet**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **29-08-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	8.06	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38
3.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
4.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B

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Ref: SV/HPCL-VR/25-09/001

Date: 09-10-2025

NAME AND ADDRESS : **Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.**

SAMPLE PARTICULARS : **EFFLUENT**

SOURCE OF COLLECTION : **ACF Outlet at IETP**

SAMPLE COLLECTED BY : **SV**

QUANTITY OF SAMPLE : **3 lts**

TYPE OF CONTAINER : **2 PVC Containers and 1 Glass Container each 1ltr**

DATE OF COLLECTION : **30-09-2025**

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.79	6.5 – 8.5	APHA, 4500-H+B
2.	Total Suspended Solids – TSS	mg/l	9.0	20	APHA, 2540-D
3.	Chemical Oxygen Demand – COD	mg/l	39.0	125	APHA, 5220-B
4.	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	7.0	15	IS 3025, Part 44
5.	Oil & Grease	mg/l	<1.0	5.0	APHA, 5520-D, 5-38
6.	Phenols as C ₆ H ₅ OH	mg/l	0.032	0.35	APHA, 5530-C
7.	Sulphides as S	mg/l	0.13	0.5	APHA, 4500S ² D
8.	Cyanide as CN	mg/l	<0.02	0.2	APHA, 4500-CN - E
9.	Ammonia as N	mg/l	<0.01	15.0	IS 3025, Part 34
10.	Total Kjeldahl Nitrogen	mg/l	1.52	40	IS 3025, Part 34
11.	Phosphorus as P	mg/l	0.28	3.0	APHA, 4500 P- C
12.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
13.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B
14.	Lead as Pb	mg/l	<0.01	0.1	APHA, 3120-B
15.	Mercury as Hg	mg/l	<0.01	0.01	APHA, 3120-B
16.	Zinc as Zn	mg/l	<0.01	5.0	APHA, 3120-B
17.	Nickel as N	mg/l	<0.01	1.0	APHA, 3120-B
18.	Copper as Cu	mg/l	<0.01	1.0	APHA, 3120-B
19.	Vanadium as V	mg/l	<0.01	0.2	APHA, 3120-B
20.	Benzene	mg/l	<0.01	0.1	APHA, 6410-B
21.	Benzo pyrene	mg/l	<0.01	0.2	APHA, 6440-B

*BDL – Below Detectable Limit

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NAME AND ADDRESS : Mr. G.Bhagavan, GM – Technical,
M/s. Hindustan Petroleum Corporation Ltd.,
Visakha Refinery, Post Box No.15,
Visakhapatnam – 530 011.

SAMPLE PARTICULARS : EFFLUENT

SOURCE OF COLLECTION : MHF Outlet

SAMPLE COLLECTED BY : SV

QUANTITY OF SAMPLE : 3 lts

TYPE OF CONTAINER : 2 PVC Containers and 1 Glass Container each 1ltr

DATE OF COLLECTION : 30-09-2025

TEST REPORT

S. No.	Parameter	Unit	Result	Limits	Method followed
1.	pH	--	7.92	6.5-8.5	APHA, 4500-H+B
2.	Oil & Grease	mg/l	<1.0	1.0	APHA, 5520-D, 5-38
3.	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	0.1	APHA, 3500 Cr - B
4.	Total Chromium as Cr	mg/l	<0.01	2.0	APHA, 3120-B

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