

Compliance of Environmental Clearance conditions for the period 1 st October, 2025 to 31 st March, 2026		
Project: Setting up a Grass Root 9 MMTA Refinery cum Petrochemical Complex project at Tehsil Pachpadra, District Barmer (Rajasthan) by M/s HPCL Rajasthan Refinery Limited (HRRL)		
Reference No.: F. No. J-11011/87/2013-IA-II(I) dated 13 th September, 2017 and its amendment dated 31 st January, 2020 by Ministry of Environment, Forests and Climate Change, Gol.		
15. Compliance of terms and conditions (Specific Conditions)		
(i)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. CTE obtained on 8th Jan 2018 from RSPCB (order no: 2017-2018/HDF/2618). Subsequently, CTE extension obtained upto November, 2024 from RSPCB vide letter no. F5/(O&G-329)/RSPCB/OGM/584-586; dated: 10/08/2022. The validity was further extended up to 31.12.2025 vide letter no. F/(O&G-329)/RSPCB/Barmer/48-50; dated: 27/09/2024 and same is further extended upto 31.12.2026 vide letter F/(O&G-329)/ RSPCB/Barmer/279 dated Dec 10, 2025. During the detailed engineering, there are a few changes in the product slate pattern and raw material mix of the proposed refinery cum petrochemical complex. For the changes after getting NIPL CTE amendment has been obtained vide File No. F(Tech)/RSPCB/89520/52644 dated Dec 12, 2025. Consent to Operate (CTO) for Utilities block has been granted separately by RSPCB with vide letter no. F(Tech) / BALOTRA(Pachpadra) /7898(1)/ 2024-2025/1835-1837, dated: 21.10.2024 and this CTO is valid for a period from 16/02/2024 to 31/01/2029. Issued CTO is valid only for Utilities Block which is part of RRP Complex. It covers mainly Compressed Air+N2, RO-DM Plant, Raw Water Treatment Plant, Condensate Polishing Unit, Effluent Treatment Plant, Refinery Cooling Water System (CT-1), Sulphur Block Cooling Water System (CT-5). CTO for Refinery Units and Utilities units received from RSPCB vide File No. F(Tech) / BALOTRA(Pachpadra) /8688(1)/ 2025-2026/2833-2835, dated: Dec 10, 2025.
(ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. The effluent discharge, if any, shall conform to the standards prescribed under the Environment (Protection) Rules, 1986.	Agree to comply. Zero Liquid Discharge (ZLD) for the refinery is ensured and no waste/treated water shall be discharged outside the premises. All effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986.

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(iii)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Being Complied. Authorizations for construction related Hazardous waste taken from RSPCB dated October 10, 2023 vide authorization No. RPCB/HWM/2023-2024/Oil and Gas/HSW/1. Operation Phase Hazardous waste obtained vide Authorization No RPCB/HWM/2025-2026/Oil and Gas/HSW/1 which is valid till 31.07.2030.
(iv)	Environmental Standards for Petroleum Oil Refinery dated 18th March 2008 and Environmental Standards for Petrochemical (Basic and Intermediates) dated on 9 th November, 2012, and its amendments from time to time shall be followed.	Agree to comply.
(v)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Multi-cyclone followed by bag filter shall be provided to the DCU coke based CFBC boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied. Dust Extraction system is provided at outlet of Coke crusher within DCU and at bunker loading area of Captive Power Plant (CPP). All transfer point of conveyors is provided with dry fog type dust suppression system. Coke storage at coke yard is provided with Sprinkler Type dust suppression system. Adequate stack height is provided in all stacks as per CPCB/SPCB guidelines.
(vi)	Total water requirement shall not exceed 5300 cum/hr to be met from Indira Gandhi Canal. Necessary permission in this regard shall be obtained from the concerned regulatory authority. No ground water shall	Being Complied. Permission for withdrawal of water from Indira Gandhi Nahar Pariyojana (IGNP) is in place. No ground water shall be used without prior permission from the Central Ground Water Authority (CGWA).

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	be used without prior permission from the CGWA.	
(vii)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Agree to comply. Process effluent/process waste water and storm water will be handled separately. Guard pond for storm water incorporated in design of the complex.
(viii)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Agree to comply.
(ix)	Process organic residue and spent carbon shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-Off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.	Agree to comply. During Operation of CPP, efforts will be made to sell the fly ash produced from CFBC boilers to brick manufacturers/cement industry as advised in the EC letter granted by MoEFCC. ETP oily sludge will be routed to Delayed Coker Unit (DCU) for processing.
(x)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Agree to comply. Emergency Response Plan is in place and mock-drills are held regularly.
(xi)	Fly ash should be stored separately. as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy	Agree to comply. Fly ash collected from different locations of the boiler (including ESP, APH) shall be conveyed to Reinforced Cement Concrete (RCC) silo through dense phase system (closed conveying). RCC sump to collect floor wash at different location of fly ash handling shall be provided. Separate silos shall be

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	season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.	provided for fly ash and bed ash. There shall be one common RCC silo for fly ash collection from two Circulating Fluidized Bed Combustion (CFBC) boilers in each power block with capacity of 5 days of operation of both CFBC boilers at MCR. Ash from all silos shall be directly unloaded into container trucks in dry form through unloading spout. There shall be two such unloading spout in each silo so that unloading can be done through two trucks simultaneously. Provision shall also be made at each fly ash silo to moisture the ash and unload it in the open truck for further disposal outside the refinery complex.
(xii)	The company shall undertake waste minimization measures as below: - (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through Vapour recovery system. (f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	(a) – (e) Agree to comply, as applicable. (f) Agree to comply during the Operation and Maintenance Phase of the Project.
(xiii)	The green belt of at least 10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and	Being Complied. HRRL has acquired 4400.40 acres land from Government of Rajasthan. Total plot area of refinery and petrochemical (including Marketing Terminal) is 4126.95 acres. Total plot area of refinery and petrochemical (excluding Marketing Terminal) is 3876.95 acres. The allocated greenbelt of refinery

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	along road sides etc. As many as 25000 trees to be planted per year during first five years. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	area is 1279.38 acres and Marketing Terminal is 82.5 acres which is 33% of the total plot area within the Boundary line of Refinery Complex. AFRI has completed the Green Belt Study and released Detail Project Report (DPR) to HRRL. The DPR which has been prepared with the details of Green Belt development Plan was submitted to DFO, Barmer (Rajasthan) for necessary action. The Forest department replied that the proposed green belt area is saline water-logged area, due to which the survival potential of plants is very less. Forest department mentioned that the advanced soil work/plantation work mentioned in DPR prepared by AFRI Jodhpur is very technical in nature and it is not practical to get the work done. Later on, Forest and Environment Ministry, Rajasthan has suggested that HRRL should develop the green belt area as per the guidelines given in AFRI report. HRRL has planned to develop tree plantation in a phased manner considering the difficulties expressed by Forest Department. In 1st phase 5000 demo tree plantation in 11.25 acres is completed. In addition to above, HRRL has developed a nursery to support the plantation by cultivating saplings adapted to the local environment, 50000 plant saplings per year are being developed. A total of 1,00,000 saplings have been planted within the refinery premises as on date. We are taking care of these plants with continuous watering of plants along with manure and mineral supplements.
(xiv)	All the commitment made regarding issues raised during the Public Hearing/consultation meeting held on 30 th May, 2014 shall be satisfactorily implemented.	Agree to comply.
(xv)	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on Public Hearing and item-wise details along with the time bound action plan shall be prepared and submitted	Being Complied. MoEFCC has accorded amendment in the EC vide letter no. F. No. J-11011/87/2013-IA-II(I) dated 31st January, 2020. The revised EC Condition is stated below: "At least Rs. 107.82 Crores (0.25% of the total project cost) shall be allocated for Corporate Environmental responsibility based on Public Hearing issues." CER proposals have been finalized in

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	to the Ministry's Regional Office.	consultation with Government of Rajasthan (GOR): ➤ Construction of alternate route from NH-025 km 92/800 to A/R Sajiyali Km 0/0 to 12/500 - Construction works of Sajiyali road is completed. ➤ Construction of BT road from NH-025 Km. 87/500 to A/R Sambhra Km 0/0 to 3/0. - Purchase Order for the construction of roads was placed on 24.12.2020. Sambhra - Jerla Road works completed and handed over to PWD in August 2022. ➤ Construction of Hospital of 50 bed capacity - Civil works are in progress for the Hospital. The OPD building is in advanced stages of finishing, and RCC and masonry works for the IPD building are in progress. ➤ Construction of Senior Secondary School - Construction works completed. Operationalized from the academic year 2025-26. ➤ Avenue Plantation for 90 KM distance has been finalized in consultation with DC, Barmer. AFRI have conducted site survey and sample collection and released a DPR for the same. DPR handed over to Forest department for carrying out the Avenue plantation with funding by HRRL. As advised by the District Collector, Balotra during recent review meetings, the Avenue Plantation work is to be undertaken by the Forest Department. The work will be executed on a deposit work basis, and discussions in this regard are currently in progress with the Forest Department and district authorities. <table border="1"> <thead> <tr> <th>S. No.</th><th>Name of the Road</th><th>Distance KM</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Highway to Sambhra</td><td>4</td></tr> <tr> <td>2.</td><td>Highway to Ashapura Mandir</td><td>1</td></tr> <tr> <td>3.</td><td>Bagundi to Malwa</td><td>10</td></tr> <tr> <td>4.</td><td>Pachpadra to Patodi</td><td>25</td></tr> <tr> <td>5.</td><td>Pachpadra to Khed</td><td>10</td></tr> </tbody> </table>	S. No.	Name of the Road	Distance KM	1.	Highway to Sambhra	4	2.	Highway to Ashapura Mandir	1	3.	Bagundi to Malwa	10	4.	Pachpadra to Patodi	25	5.	Pachpadra to Khed	10
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		6.	Jerla to Sambhra	10
		7.	Highway to Mungra	10
		8.	Refinery to Champabery	5
		9.	Lakhe ki Beri to Sajiyali	9
		10.	Highway to Karni Mata Mandir	5
		11.	Highway to Chirdhani Mandir	1
(xvi)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Agree to comply.		
(xvii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Being complied with.		
(xviii)	Continuous online (24x7) monitoring system. Both for emissions and the effluent shall be installed within the plant site for measurement of discharge and pollutants concentration. Data shall be uploaded on the company's website and provided to the respective RO's of MoEFCC, CPCB and SPCB.	Agree to comply.		
(xix)	Occupational health surveillance of the workers shall be done on a regular basis and	Agree to comply - During the Operation Phase of the Project.		

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	records maintained as per the Factories Act.	
(xx)	Wetland habitat shall be provided for migratory bird namely, Demoiselle Crane, at the reservoir and green belt areas.	Shall be complied with. The Pachpadra lake is a rain water lake formed mostly during rainy seasons and it has created a natural wetland habitation which attracts migratory bird like demoiselle cranes. This natural habitation is not affected and no impact on migratory birds has been noticed during a site visit and survey carried out in the vicinity of the project site and in and around Pachpadra lake by biological expert from EIA Consultant M/s EIL. This action on the natural wetland can be further enhanced or developed by taking guidance from subject matter expert agency in future as we progress. In this regard, a site survey and study were conducted by Jai Narain Vyas University (JNVU), Jodhpur, and the same has been completed, with recommended sites for wetland habitat development obtained. A Purchase Order has been placed for execution works for development of the site near the Township complex at Sambhra. However, district authorities have recommended other sites, i.e., Amartiya Talab and Harzi ka Talab near Pachpadra Lake, for wetland habitat development, for which site visit along with SE-Watershed, EE and AE done on 16-March-2026. Survey and DPR works are in progress.
(xxi)	At least 10 natural surface water bodies shall be rejuvenated and developed as complete eco-system with the tree plantation development and growth using satellite imageries.	Shall be complied with. In first phase, rejuvenation works of 05 nos. of waterbodies have been completed. (Khari Nadi, Kohala Nada, Kasaiyon Ki Nadi, Chirdhani Mandir Talab, Diyar Nadi) In second phase, PO's Placed by watershed dept for rejuvenation works of balance 05 no's. of waterbodies i.e at Karnisar Talab, Rewada Talab, Tejudi Nadi, Gangawas and Molap thalab. Site works are in advanced stage of completion at all these 5 no's waterbodies.
(xxii)	The international boundary is reportedly at a	Complied.

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	distance of 100 -150 km from the project site. In view of the security apprehensions, necessary permission required, if any, shall be obtained from the Ministry of Defense and/or Ministry of Home Affairs.	NOC has been renewed by the IAF HQ SWAC vide letter SWAC/2564/8/ 5949/ ATS (BM) dated 16 th October, 2023 & the NOC is valid only for eight years from the date of its issue. Also, HRRL site is declared as Prohibited area on 18 September 2021 by home department GoR.
15.1	Compliance of other general conditions	
(i)	The project authorities must strictly adhere to the stipulations made by the State Government, Central Pollution Control Board, State Pollution Control Board and any other statutory authority.	Agree to comply.
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Being complied. During the detailed engineering, there are a few changes in the product slate pattern and raw material mix of the proposed refinery cum petrochemical complex. In this context HRRL was engaged M/s EQMS Consulting Limited an accredited consultant organisation by QCI-NABET for assessment of "No Increase in Pollution Load". As per Office Memorandum of MoEFCC Notification No. S.O.980(E) dated: 02.03.2021 under clause no. 7 (ii) (c), for "No Increase in Pollution Load (NIPL)" certificate has been obtained from MoEFCC for further action. Subsequently, the Rajasthan State Pollution Control Board evaluated and recommended the "No Increase in Pollution Load (NIPL)" certificate on November 20, 2025.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the	Complied. The locations of ambient air quality monitoring stations have been decided in consultation with the Rajasthan State Pollution Control Board (RSPCB).

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	upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Three continuous ambient air quality monitoring stations have been installed—one each in the upwind direction, the downwind direction, and at the location where maximum ground-level concentrations are expected.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	Being complied.
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall, conform to the standards prescribed. Under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Necessary specification details shall be included in all the Engineering, Procurement & Construction (EPC) Contracts for implementation.
(vi)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	All water will be collected through storm water system in Guard Pond. Recharging the ground water is not envisaged due to High salinity of Ground water.
(vii)	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	Agree to comply. During the project phase, EPC Contractors are providing training to concerned workers and engineers who are involved in chemical handling. Pre-employment medical examination is being carried out for all workers and staff. Chemical handling is covered as part of the Safety Induction Training program.

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	basis. Training to all employees on handling of chemicals shall be imparted.	
(viii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Agree to comply.
(ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Agree to comply.
(x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Agree to comply.
(xi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so	Being complied. Fund provision has been envisaged for capital /recurring cost towards environment pollution control measures.

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	earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	
(xii)	A copy of clearance letter shall be sent by the project 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.	Complied. EC letter sent to following agencies: BDO - Panchayat Samiti – Balotra, CEO, Zilla Parishad – Barmer, Sarpanch - Sambhra Village, Sarpanch - SRK Village, RSPCB RO-Jodhpur, vide our letter dated October 5 and 9, 2017.
(xiii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEFCC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	Being complied. The last compliance report for the period 1 st April, 2025 to 30 th Sept, 2025 was submitted to all statutory authorities in Nov, 2025 and the same has been uploaded on the HRRL website with following link. https://hrrl.in/Hrrl/EC_compliance.jsp
(xiv)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the	Being complied. Form-V, Environmental statement is being submitted to Rajasthan State Pollution Control Board for the Utilities Block (CA+N2, RWTP,RODM,CT-1/5).

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	website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEFCC by e-mail.	
(xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Environmental Clearance has been advertised on September 27, 2017 in Times of India (English) and Rajasthan Patrika (Hindi) Newspapers. A copy of the same has been sent to MoEF&CC Regional Office at Lucknow vide HPCL letter dated October 5, 2017.
(xvi)	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.	Being complied. Final approval of the project revised cost and timeline from MoPNG has been obtained on 8 th April, 2026. First financial closure was completed on 28 th January 2019. Financial closure approval for revised project cost of Rs 79,459 Crores was obtained on 29 th Sep, 2025. The project has achieved an overall progress of 92%.
16	The Ministry may revoke or suspend the clearance, at subsequent stages, if	Agree to comply.

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	implementation of any of the above conditions is not satisfactory.	
17	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Agree to comply.
18	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agree to comply.

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Pachpadra Results										
Sr. No.	Parameters	Unit	Pachpadra Village			Specifications	Methods			
.....	Date of Sampling	.....	06.10.2025		27.10.2025					
.....	Sample Code	.....	081025N-E-001		291025N-E-002					
1	Particulate Matter (PM10)	µg/m ³	76.2		77.7	Max. 100	IS:5182(Part-23)			
2	Particulate Matter (PM2.5)	µg/m ³	34.8		34	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.68		15.98	Max.80	IS:5182(Part-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.23		16.9	Max.80	IS:5182(Part-6)			
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	8.1	8.4	8.6	8	7.8	7.5	Max. 180	IS:5182(Part-9)

1 of 2

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10/10/26

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.inEmail : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		081025N-E-001	291025N-E-002	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.05	<0.05	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.2	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.32	1.26	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.41 0.47 0.42	0.43 0.49 0.44	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Pachpadra Results										
Sr. No.	Parameters	Unit	Richholl Village			Specifications	Methods			
.....	Date of Sampling	.....	06.10.2025		27.10.2025					
.....	Sample Code	.....	081025N-E-002		291025N-E-003					
1	Particulate Matter (PM10)	µg/m ³	78.5		80	Max. 100	IS:5182(Part-23)			
2	Particulate Matter (PM2.5)	µg/m ³	35.5		34.7	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.46		14.1	Max.80	IS:5182(Part-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19.21		19.51	Max.80	IS:5182(Part-6)			
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	8.9	9.2	9.4	8.7	8.5	8.2	Max, 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		081025N-E-002	291025N-E-003	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	<0.5	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.1	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.36	1.3	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.81 0.83 0.82	0.83 0.89 0.84	Max.4	IS:5182(Part-10)

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10/01/26

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Idma Corporate Park,

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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Pachpadra Village		Specifications	Methods
.....	Date of Sampling	.....	03.11.2025	24.11.2025		
.....	Sample Code	.....	051125N-E-004	261125N-E-003		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.8	78.3	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.1	34.3	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.88	16.18	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.03	16.7	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	7.9	8.2	8.4	7.8	7.6	7.3	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

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TEST REPORT

Sl. No.	Sample Code	Unit	051125N-E-004			261125N-E-003			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.05			<0.05			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.2			1.14			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.44	0.5	0.45	0.46	0.52	0.47	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Pachpadra Village		Specifications	Methods
.....	Date of Sampling	.....	01.12.2025	29.12.2025		
.....	Sample Code	.....	031225N-E-007	311225N-E-002		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.2	78.7	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.3	34.5	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.18	16.48	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.23	16.8	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	8.22	8.52	8.72	8.12	7.92	7.62	Max. 180	IS:5182(Part-9)

1 of 2

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27/10/26



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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	031225N-E-007	311225N-E-002	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.05	<0.05	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.29	1.23	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.46 0.52 0.47	0.48 0.54 0.49	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Richholi Village		Specifications	Methods
.....	Date of Sampling	.....	03.11.2025	24.11.2025		
.....	Sample Code	.....	051125N-E-005	261125N-E-004		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	79.1	80.6	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.8	35	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.66	14.3	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	19.01	19.31	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	8.7	9	9.2	8.5	8.3	8	Max. 180	IS:5182(Part-9)

1 of 2

24/10/26
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24/10/26
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Idma Laboratories Limited

TEST REPORT

Sample Code	051125N-E-005	261125N-E-004	Specifications	Methods
6 HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	...	IS:5182(Part-21)
7 Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	Max.5	IS:5182(Part-11)
8 VOCs	$\mu\text{g}/\text{m}^3$	1.18	...	IS:5182(Part-11)
9 Carbon Monoxide (CO)	mg/m^3	0.84 0.9 0.85 0.86 0.92 0.87	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM5/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Richholi Village		Specifications	Methods				
.....	Date of Sampling	.....	01.12.2025	29.12.2025						
.....	Sample Code	.....	031225N-E-008	311225N-E-003						
1	Particulate Matter (PM10)	µg/m³	79.5	81	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m³	36	35.2	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO₂)	µg/m³	15.96	14.6	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO₂)	µg/m³	19.21	19.41	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O₃)	µg/m³	9.02	9.32	9.52	8.82	8.62	8.32	Max. 180	IS:5182(Part-9)

1 of 2

29/10/26
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10/10/26
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Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

.....	Sample Code		031225N-E-008			311225N-E-003			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.33			1.27			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.86	0.9	0.88	0.88	0.87	0.84	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods				
.....	Date of Sampling	.....	06.10.2025	27.10.2025						
.....	Sample Code	.....	081025N-E-003	291025N-E-004						
1	Particulate Matter (PM10)	µg/m ³	64.7	57.9	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.3	30.5	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.05	17.35	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.15	18.45	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	7.4	7.7	7.9	7.6	7.4	7.1	Max. 180	IS:5182(Part-9)

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TEST REPORT

Sl. No.	Sample Code	Unit	081025N-E-003			291025N-E-004			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			1.2			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.18			1.12			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.75	0.76	0.74	0.78	0.81	0.8	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRR/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods				
.....	Date of Sampling	.....	03.11.2025	24.11.2025						
.....	Sample Code	.....	051125N-E-006	261125N-E-005						
1	Particulate Matter (PM10)	µg/m ³	65.3	58.5	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.6	30.8	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.25	17.55	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.95	18.25	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	7.2	7.5	7.7	7.4	7.2	6.9	Max. 180	IS:5182(Part-9)

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TEST REPORT

.....	Sample Code		051125N-E-006			261125N-E-005			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.06			1			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.78	0.76	0.73	0.81	0.83	0.79	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods				
.....	Date of Sampling	.....	01.12.2025	29.12.2025						
.....	Sample Code	.....	031225N-E-008	311225N-E-004						
1	Particulate Matter (PM10)	µg/m ³	65.7	58.9	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.8	31	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.55	17.85	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.05	18.35	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	7.52	7.82	8.02	7.72	7.52	7.22	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

Sample Code	031225N-E-008	311225N-E-004	Specifications	Methods
6 HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$ <0.5	<0.5	...	IS:5182(Part-21)
7 Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$ <1.0	<1.0	Max.5	IS:5182(Part-11)
8 VOCs	$\mu\text{g}/\text{m}^3$ 1.15	1.09	...	IS:5182(Part-11)
9 Carbon Monoxide (CO)	mg/m^3 0.8 0.78 0.75 0.83 0.85 0.81	Max.4		IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Sajiyali Village		Specifications	Methods				
.....	Date of Sampling	.....	06.10.2025	27.10.2025						
.....	Sample Code	.....	081025N-E-004	291025N-E-005						
1	Particulate Matter (PM10)	µg/m ³	74.8	75.3	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	34.1	33.3	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.8	17.1	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.9	19.2	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	10.7	11	11.2	10.8	10.6	10.3	Max. 180	IS:5182(Part-9)

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TEST REPORT

Sl. No.	Sample Code	Unit	081025N-E-004	291025N-E-005	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	<0.5	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.3	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.26	1.2	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.57 0.63 0.58	0.57 0.63 0.58	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Sajiyali Village		Specifications	Methods
.....	Date of Sampling	.....	03.11.2025	24.11.2025		
.....	Sample Code	.....	051125N-E-007	261125N-E-006		
1	Particulate Matter (PM10)	µg/m ³	75.4	75.9	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	34.4	33.6	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17	17.3	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.7	19	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	10.5	10.8	11	10.6	10.4	10.1	Max. 180	IS:5182(Part-9)

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26/10/2025



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TEST REPORT

Sl. No.	Sample Code	Unit	051125N-E-007			261125N-E-006			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.14			1.08			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.6	1.05	0.91	0.6	0.62	0.58	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Sajiyali Village		Specifications	Methods
.....	Date of Sampling	.....	01.12.2025	29.12.2025		
.....	Sample Code	.....	031225N-E-009	311225N-E-005		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.8	76.3	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.6	33.8	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	17.3	17.6	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.9	19.1	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	10.82	11.12	11.32	10.92	10.72	10.42	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

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TEST REPORT

.....	Sample Code		031225N-E-009			311225N-E-005			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.23			1.17			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.62	1.05	0.91	0.62	0.64	0.6	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Samra Ki Dhanl		Specifications	Methods				
.....	Date of Sampling	.....	03.10.2025	08.10.2025						
.....	Sample Code	.....	061025N-E-005	101025N-E-001						
1	Particulate Matter (PM10)	µg/m ³	75.1	75.6	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	30.95	30.15	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.84	17.14	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.04	18.34	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	9.5	9.8	10	9.7	9.5	9.2	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-005			101025N-E-001			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			1.1			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.37			1.31			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.92	0.94	0.93	0.95	0.97	0.94	Max.4	IS:5182(Part-10)

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10/01/26

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Idma Laboratories Limited

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Rachipadra Results										
Sr. No.	Parameters	Unit	Samra Ki Dhani		Specifications	Methods				
.....	Date of Sampling	.....	10.11.2025	26.11.2025						
.....	Sample Code	.....	121125N-E-008	2911525N-E-007						
1	Particulate Matter (PM10)	µg/m ³	75.7	76.2	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.25	30.45	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.04	17.34	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.84	18.14	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	9.3	9.6	9.8	9.5	9.3	9	Max. 180	IS:5182(Part-9)

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TEST REPORT

Sl. No.	Sample Code	Unit	121125N-E-008			2911525N-E-007			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.25			1.19			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.95	0.97	0.93	0.98	1	0.97	Max.4	IS:5182(Part-10)

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27/01/26



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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Samra Ki Dhani		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-011	031225N-E-006		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.1	76.6	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.45	30.65	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.34	17.64	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.04	18.24	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	9.62	9.92	10.12	9.82	9.62	9.32	Max. 180	IS:5182(Part-9)

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10/01/26



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Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	041225N-E-011			031225N-E-006			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			---	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.34			1.28			---	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.97	0.97	0.93	1	1.03	1.01	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kesajyon Ki Dhani		Specifications	Methods				
.....	Date of Sampling	.....	03.10.2025	08.10.2025						
.....	Sample Code	.....	061025N-E-006	101025N-E-002						
1	Particulate Matter (PM10)	µg/m ³	63.8	64.2	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	30.62	29.82	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.14	12.44	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.71	17.01	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Specifications	Methods			
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)					
5	Ozone (O ₃)	µg/m ⁵	8.3	8.6	8.8	8.61	8.41	8.11	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	051025N-E-006	101025N-E-002	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	<0.5	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.18	1.12	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.89 0.91 0.85	0.85 0.89 0.83	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kesajyon Ki Dhani		Specifications	Methods				
.....	Date of Sampling	.....	10.11.2025	26.11.2025						
.....	Sample Code	.....	121125N-E-009	2911525N-E-008						
1	Particulate Matter (PM10)	µg/m ³	64.4	64.8	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	30.92	30.12	Max. 60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.34	12.64	Max. 80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.51	16.81	Max. 80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	8.1	8.4	8.6	8.41	8.21	7.91	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited
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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-009			2911525N-E-008			Specifications	Methods
6	HC (Methane & NMHC)	µg/m ³	<0.5			<0.5			.....	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m ³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m ³	1.06			1			.....	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m ³	0.92	0.92	0.83	0.88	0.9	0.87	Max.4	IS:5182(Part-10)

Reviewed by *[Signature]*
01/01/26

2 of 2

Authorised Signatory *[Signature]*
01/01/26



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kesajyon Ki Dhani		Specifications	Methods				
.....	Date of Sampling	.....	02.12.2025	31.12.2025						
.....	Sample Code	.....	041225N-E-012	031225N-E-007						
1	Particulate Matter (PM10)	µg/m ³	64.9	65.2	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.12	30.32	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.64	12.94	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	16.71	16.91	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	8.42	8.72	8.92	8.73	8.53	8.23	Max. 180	IS:5182(Part-9)

1 of 2



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

	Sample Code	Unit	041225N-E-012			031225N-E-007			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.15			1.09			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.94	0.92	0.83	0.9	0.93	0.91	Max.4	IS:5182(Part-10)

Reviewed by



2 of 2

Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Panchpada Results										
Sr. No.	Parameters	Unit	Sambhra Village (Near Panchayat Area)		Specifications	Methods				
.....	Date of Sampling	.....	03.10.2025	08.10.2025						
.....	Sample Code	.....	061025N-E-007	101025N-E-003						
1	Particulate Matter (PM10)	µg/m ³	77.1	77.6	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.88	31.08	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.75	17.05	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.36	18.66	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Specifications	Methods			
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)					
5	Ozone (O ₂)	µg/m ³	20.4	20.7	20.9	20.6	20.4	20.1	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-007			101025N-E-003			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			1.1			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.22			1.16			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.55	0.61	0.56	0.56	0.62	0.57	Max.4	IS:5182(Part-10)

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9/01/26

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9/01/26

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Sambhara Village (Near Panchayat Area)		Specifications	Methods
	Date of Sampling		10.11.2025	26.11.2025		
	Sample Code		121125N-E-010	2911525N-E-009		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.7	78.2	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.18	31.38	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.95	17.25	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.16	18.46	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	20.2	20.5	20.7	20.4	20.2	19.9	Max. 180	IS:5182(Part-9)

1 of 2



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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-010	2911525N-E-009	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	<0.5	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.1	1.04	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.58 0.64 0.59	0.59 0.61 0.58	Max.4	IS:5182(Part-10)

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2 of 2

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Pachpadra Results										
Sr. No.	Parameters	Unit	Sambhra Village (Near Panchayat Area)			Specifications	Methods			
.....	Date of Sampling	.....	02.12.2025		31.12.2025					
.....	Sample Code	.....	041225N-E-013		031225N-E-008					
1	Particulate Matter (PM10)	µg/m ³	78.1		78.6	Max. 100	IS:5182(Part-23)			
2	Particulate Matter (PM2.5)	µg/m ³	32.38		31.58	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.25		17.55	Max.80	IS:5182(Part-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.36		18.56	Max.80	IS:5182(Part-6)			
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	20.52	20.82	21.02	20.72	20.52	20.22	Max. 180	IS:5182(Part-9)

1 of 2



10/10/26

Authorised Signatory



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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		041225N-E-013			031225N-E-008			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.19			1.13			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.6	0.66	0.61	0.61	0.64	0.62	Max.4	IS:5182(Part-10)

Reviewed by
S/10/01/26

2 of 2

Authorized Signatory
Kartar Singh
Tech. Mgr.
10/01/26



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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Gopari Village		Specifications	Methods
.....	Date of Sampling	.....	03.10.2025	08.10.2025		
.....	Sample Code	.....	061025N-E-008	101025N-E-004		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.1	73.6	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.15	30.35	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.62	16.92	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.95	18.25	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	19.8	20.1	20.3	19.6	19.4	19.1	Max. 180	IS:5182(Part-9)

1 of 2



Authorised Signature



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Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-008			101025N-E-004			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			1.3			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.26			1.2			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.42	0.48	0.43	0.44	0.5	0.45	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Gopari Village		Specifications	Methods
.....	Date of Sampling	.....	10.11.2025	26.11.2025		
.....	Sample Code	.....	121125N-E-011	2911525N-E-010		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.7	74.2	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.45	30.65	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.82	17.12	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.75	18.05	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	19.6	19.9	20.1	19.4	19.2	18.9	Max. 180	IS:5182(Part-9)

1 of 2



10/11/26
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Idma Laboratories Limited
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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-011			2911525N-E-010			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.14			1.08			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.45	0.51	0.46	0.47	0.49	0.46	Max.4	IS:5182(Part-10)



2 of 2



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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Gopari Village		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-014	031225N-E-009		
1	Particulate Matter (PM10)	µg/m ³	74.1	74.6	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	31.65	30.85	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.12	17.42	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.95	18.15	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	19.92	20.22	20.42	19.72	19.52	19.22	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	041225N-E-014			031225N-E-009			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.23			1.17			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.47	0.53	0.48	0.49	0.52	0.5	Max.4	IS:5182(Part-10)



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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kalawa Village		Specifications	Methods
	Date of Sampling		03.10.2025	08.10.2025		
	Sample Code		061025N-E-009	101025N-E-005		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.9	76.7	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.86	31.06	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.21	17.51	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19.13	19.43	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	20.2	20.5	20.7	20.5	20.3	20	Max. 180	IS:5182(Part-9)

1 of 2



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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-009			101025N-E-005			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			1.14			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.16			1.1			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.57	0.63	0.58	0.55	0.61	0.56	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Pachpadra Results										
Sr. No.	Parameters	Unit	Kalawa Village			Specifications	Methods			
.....	Date of Sampling	.....	10.11.2025		26.11.2025					
.....	Sample Code	.....	121125N-E-012		2911525N-E-011					
1	Particulate Matter (PM10)	µg/m ³	76.5		77.3	Max. 100	IS:5182(Part-23)			
2	Particulate Matter (PM2.5)	µg/m ³	32.16		31.36	Max.60	IDL/SP/03,ISSUENO-1			
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.41		17.71	Max.80	IS:5182(Part-2)			
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.93		19.23	Max.80	IS:5182(Part-6)			
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	20	20.3	20.5	20.3	20.1	19.8	Max. 180	IS:5182(Part-9)

1 of 2

27/10/2026
Reviewed by



10/10/26
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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-012			2911525N-E-011			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			---	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.04			0.98			---	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.6	0.66	0.61	0.58	0.6	0.57	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kalawa Village		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-015	031225N-E-010		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.9	77.7	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.36	31.56	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.71	18.01	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19.13	19.33	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	20.32	20.62	20.82	20.62	20.42	20.12	Max. 180	IS:5182(Part-9)

1 of 2



Idma Laboratories Limited

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TEST REPORT

Sl. No.	Sample Code	Unit	041225N-E-015	031225N-E-010	Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5	<0.5	...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.13	1.07	...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.62 0.68 0.63	0.6 0.63 0.61	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAKHARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRR/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Mandapura Village		Specifications	Methods
.....	Date of Sampling	.....	03.10.2025	08.10.2025		
.....	Sample Code	.....	061025N-E-010	101025N-E-006		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.8	74.3	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	32.7	31.9	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.71	16.01	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.83	18.13	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	19.7	20	20.2	19.5	19.3	19	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	061025N-E-010			101025N-E-006			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			1.05			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.34			1.28			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.47	0.53	0.48	0.46	0.52	0.47	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Mandapura Village		Specifications	Methods
	Date of Sampling		10.11.2025	26.11.2025		
	Sample Code		121125N-E-013	2911525N-E-012		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.4	74.9	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33	32.2	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.91	16.21	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.63	17.93	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	19.5	19.8	20	19.3	19.1	18.8	Max. 180	IS:5182(Part-9)

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10/11/26

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	121125N-E-013			2911525N-E-012			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.22			1.16			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.5	0.56	0.51	0.49	0.51	0.48	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Mandapura Village		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-016	031225N-E-011		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.8	75.3	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.2	32.4	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.21	16.51	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.83	18.03	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	19.82	20.12	20.32	19.62	19.42	19.12	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	041225N-E-016			031225N-E-011			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.31			1.25			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.52	0.58	0.53	0.51	0.54	0.52	Max.4	IS:5182(Part-10)

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Champa Beri Village		Specifications	Methods
.....	Date of Sampling	.....	03.10.2025	08.10.2025		
.....	Sample Code	.....	061025N-E-011	101025N-E-007		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.5	75.2	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.15	30.35	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.65	16.95	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	20.17	20.47	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	20.9	21.2	21.4	20.7	20.5	20.2	Max. 180	IS:5182(Part-9)

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Reviewed by
21/10/26



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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-011			101025N-E-007			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			1.1			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.36			1.32			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.54	0.6	0.55	0.53	0.59	0.54	Max.4	IS:5182(Part-10)

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Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Champa Beri Village		Specifications	Methods				
.....	Date of Sampling	.....	10.11.2025	26.11.2025						
.....	Sample Code	.....	121125N-E-014	2911525N-E-013						
1	Particulate Matter (PM10)	µg/m ³	75.1	75.8	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	31.45	30.65	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.85	17.15	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19.97	20.27	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			{0-8 hrs}	{8-16 hrs}	{16-24 hrs}	{0-8 hrs}	{8-16 hrs}	{16-24 hrs}		
5	Ozone (O ₃)	µg/m ³	20.7	21	21.2	20.5	20.3	20	Max. 180	IS:5182(Part-9)



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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-014			2911525N-E-013			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.24			1.2			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.57	0.63	0.58	0.56	0.58	0.55	Max.4	IS:5182(Part-10)

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Champa Beri Village		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-017	031225N-E-012		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.5	76.2	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.65	30.85	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.15	17.45	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	20.17	20.37	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	21	21.32	21.52	20.8	20.62	20.32	Max. 180	IS:5182(Part-9)

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Idma Laboratories Limited

TEST REPORT

Sl. No.	Sample Code	Unit	041225N-E-017			031225N-E-012			Specifications	Methods
6	HC (Methane & NMHC)	µg/m ³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m ³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m ³	1.33			1.29			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m ³	0.59	0.65	0.6	0.58	0.61	0.59	Max.4	IS:5182(Part-10)



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TEST REPORT

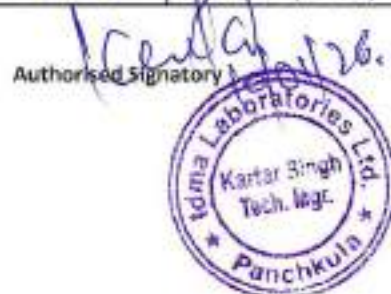
Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Akarli Village		Specifications	Methods				
.....	Date of Sampling	.....	03.10.2025	08.10.2025						
.....	Sample Code	.....	061025N-E-012	101025N-E-008						
1	Particulate Matter (PM10)	µg/m ³	71.5	71.9	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	30.2	29.4	Max.60	IDL/SP/03,ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.74	19.04	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19.16	19.46	Max.80	IS:5182(Part-6)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	20.5	20.8	21	20.1	19.9	19.6	Max. 180	IS:5182(Part-9)



1 of 2



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		061025N-E-012			101025N-E-008			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			1.12			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.45			1.39			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.44	0.5	0.45	0.42	0.48	0.43	Max.4	IS:5182(Part-10)

Reviewed by

27/01/26

2 of 2

Authorised Signatory

27/01/26



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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Akarli Village		Specifications	Methods
.....	Date of Sampling	.....	10.11.2025	26.11.2025		
.....	Sample Code	.....	121125N-E-015	2911525N-E-014		
1	Particulate Matter (PM10)	µg/m ³	72.1	72.5	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	30.5	29.7	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.94	19.24	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.96	19.26	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O ₃)	µg/m ³	20.3	20.6	20.8	19.9	19.7	19.4	Max. 180	IS:5182(Part-9)

1 of 2



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

.....	Sample Code		121125N-E-015			2911525N-E-014			Specifications	Methods
6	HC (Methane & NMHC)	µg/m³	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C ₆ H ₆	µg/m³	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	µg/m³	1.33			1.27			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m³	0.47	0.53	0.48	0.45	0.47	0.44	Max.4	IS:5182(Part-10)

Reviewed by 10/01/26

2 of 2

Authorised Signatory 10/01/26



Idma Laboratories Limited

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TEST REPORT

Customer	HPCL, RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Akarli Village		Specifications	Methods
.....	Date of Sampling	.....	02.12.2025	31.12.2025		
.....	Sample Code	.....	041225N-E-018	031225N-E-013		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.5	72.9	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.7	29.9	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	19.24	19.54	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	19.16	19.36	Max.80	IS:5182(Part-6)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
5	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	20.62	20.92	21.12	20.22	20.02	19.72	Max. 180	IS:5182(Part-9)

1 of 2



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Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

.....	Sample Code		041225N-E-018			031225N-E-013			Specifications	Methods
6	HC (Methane & NMHC)	$\mu\text{g}/\text{m}^3$	<0.5			<0.5			...	IS:5182(Part-21)
7	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0			<1.0			Max.5	IS:5182(Part-11)
8	VOCs	$\mu\text{g}/\text{m}^3$	1.42			1.36			...	IS:5182(Part-11)
9	Carbon Monoxide (CO)	mg/m^3	0.49	0.55	0.5	0.47	0.5	0.48	Max.4	IS:5182(Part-10)

2 of 2

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHAKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRR/L/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS:10500:2012

Pachpadra Results

S.No.	Test Parameters	Units	Akarli Village			Limits	Testing Method
---	Date of Sampling	---	13.10.2025	17.11.2025	18.12.2025	---	---
---	Sample Code	---	151025N-E-001	181125N-E-008	201225N-E-008	---	---
1	pH	---	7.65	7.44	7.76	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	23.6	23.4	22.9	---	IS:3025(Part-9)
4	Colour	Hazen	32	29.5	34	5/15	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	13.1	13.9	15.0	---	APHA 25208 24th Edition, 2023
8	Total Suspended Solid	mg/L	27	29	33	---	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	10908	11683	12594	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	486	494	508	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	435.8	450.2	455.0	200/600	IS:3025(Part-21)
12	CaHardness	mg/L	272.6	276.8	283.6	---	IS:3025(Part-21)
13	MgHardness	mg/L	158.6	168.5	166.6	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	5520	5535	5556	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	0.78	0.84	0.87	1/1.5	APHA 4500D 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	754.21	759.01	765.81	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6005.8	6023.4	6044.7	---	IS:3025(Part-45)
19	Iron	mg/L	<0.1	<0.1	<0.1	1	IS:3025(Part-53)
20	Potassium	mg/L	1596.8	1603.1	1611.2	---	IS:3025(Part-45)
21	Nitrates	mg/L	40.3	41.6	43.7	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.84	0.92	1.01	---	IS:3025(Part-31)
29	DO	mg/L	85.4	85.2	84.8	---	IS:3025(Part-38)
30	COD	mg/L	52	56	64	---	IS:3025(Part-58)
31	BOD	mg/L	16.5	18	19.2	---	IS:3025(Part-44)
32	Total Nitrogen	mg/L	92.6	124.8	131.1	---	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	---	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	28	30	34	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Authorised by

End of Report

Reviewed by

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Idma Corporate Park,

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Panchkula - 134113,

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Tel No. 0172 - 5064827, - 5064830

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS-10500:2012

Pachpadra Results

S.No.	Test Parameters	Units	Meghwaliki Dhani			Limits	Testing Method
	Date of Sampling		13.10.2025	17.11.2025	18.12.2025		
	Sample Code		151025N-E-002	191125N-E-009	201225N-E-009		
1	pH		7.85	8.06	8.38	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	455	465	473	1/5	IS:3025(Part-10)
3	Temperature	°C	23.8	23.6	23.1		IS:3025(Part-9)
4	Colour	Hazen	36	33.5	38	5/15	IS:3025(Part-4)
5	Odour		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	33.2	14.1	15.2		APHA 2520B 24th Edition, 2023
8	Total Suspended Solid	mg/L	762	764	768		IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	11126	11841	12742	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	478.2	486.3	500.6	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	446	460.4	465.2	200/600	IS:3025(Part-21)
12	CaHardness	mg/L	142.8	247	253.8		IS:3025(Part-21)
13	MgHardness	mg/L	197.5	207.4	206.3	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	4082	4097	4118	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	3.64	3.7	4.7	1/1.5	APHA 4500D 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	735.4	740.2	747	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6412.5	6430.1	6451.4		IS:3025(Part-45)
19	Iron	mg/L	5.83	5.87	5.9	1	IS:3025(Part-53)
20	Potassium	mg/L	58.6	64.9	73		IS:3025(Part-45)
21	Nitrates	mg/L	<0.5	<0.5	<0.5	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.91	0.99	1.08		IS:3025(Part-31)
29	DO	mg/L	8.1	7.9	7.5		IS:3025(Part-38)
30	COD	mg/L	64	68	76		IS:3025(Part-58)
31	BOD	mg/L	26.8	28.3	29.5		IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.4	2.3	2.21		IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1		IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	25	27	31	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: *As per IS 10500:2012 (Desirable/Permissible)

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Authorised by

Reviewed by

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS:10500:2012

Pachpadra Results

S.No.	Test Parameters	Units	Kiyar Village			Limits	Testing Method
.....	Date of Sampling	.....	13.10.2025	17.11.2025	18.12.2025	.....	
.....	Sample Code	.....	151025N-E-003	191125N-E-010	201225N-E-010	.....	
1	pH	---	7.71	7.92	8.24	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	27	37	45	1/5	IS:3025(Part-10)
3	Temperature	°C	23.8	24	23.5	---	IS:3025(Part-9)
4	Colour	Hazen	18	19	20	5/15	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	12.5	13.4	14.5	---	APHA 25208 24th Edition, 2023
8	Total Suspended Solid	mg/L	26	28	32	---	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	10531	11246	12147	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	434	442	456	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	412.0	426.4	431.2	200/600	IS:3025(Part-21)
12	CaHardness	mg/L	242	246.2	253	---	IS:3025(Part-21)
13	MgHardness	mg/L	165.2	175.2	173.2	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	4090	4105	4126	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	2.7	2.76	2.79	1/1.5	APHA 4500D 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	456.8	461.6	468.4	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6002.4	6020	6041.3	---	IS:3025(Part-45)
19	Iron	mg/L	2.84	2.88	2.91	1	IS:3025(Part-53)
20	Potassium	mg/L	42.2	48.5	56.6	---	IS:3025(Part-45)
21	Nitrates	mg/L	<0.5	<0.5	<0.5	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.79	0.87	0.96	---	IS:3025(Part-31)
29	DO	mg/L	8	7.8	7.7	---	IS:3025(Part-38)
30	COD	mg/L	56	60	68	---	IS:3025(Part-58)
31	BOD	mg/L	18.1	19.6	20.8	---	IS:3025(Part-44)
32	Total Nitrogen	mg/L	2.8	3.12	3.31	---	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	---	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	14	16	20	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: * As per IS:10500:2012 (Desirable/Permissible)

* End of Report *

Authorised by

Reviewed by

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TC-8207

TEST REPORT

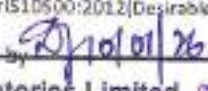
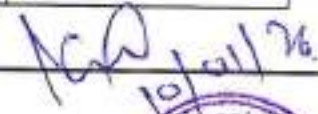
Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS:10500:2012

Pachpadra Results

S.No.	Test Parameters	Units	Sejyali Village			Limits	Testing Method
	Date of Sampling		13.10.2025	17.11.2025	18.12.2025		
	Sample Code		151025N-E-004	191125N-E-011	201225N-E-011		
1	pH		7.91	7.7	8.02	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	23.9	23.7	23.2	—	IS:3025(Part-9)
4	Colour	Hazen	38	40.5	45	5/15	IS:3025(Part-4)
5	Odour		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	13.4	14.3	15.4	—	APHA 25208 24th Edition, 2023
8	Total Suspended Solid	mg/L	25	27	31	—	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	11286	12001	12902	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	500	508	522	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	448.5	462.9	467.7	200/600	IS:3025(Part-21)
12	Ca Hardness	mg/L	280.5	284.7	291.5	—	IS:3025(Part-21)
13	Mg Hardness	mg/L	168.3	178.2	176.3	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	5220	5235	5256	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	4.35	4.41	4.44	1/1.5	APHA 4500D 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	750.4	755.2	762	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6312	6329.6	6350.9	—	IS:3025(Part-45)
19	Iron	mg/L	4.33	4.37	4.4	1	IS:3025(Part-53)
20	Potassium	mg/L	1514.5	1520.8	1528.9	—	IS:3025(Part-45)
21	Nitrates	mg/L	2.6	3.9	5.2	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.96	1.04	1.13	—	IS:3025(Part-31)
29	DO	mg/L	8.1	7.9	7.5	—	IS:3025(Part-38)
30	COD	mg/L	48	52	60	—	IS:3025(Part-58)
31	BOD	mg/L	19.4	20.9	22.1	—	IS:3025(Part-44)
32	Total Nitrogen	mg/L	5.6	6.2	6.7	—	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	—	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	24	26	30	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: *As per IS:10500:2012 (Desirable/Permissible)

End of Report

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS:10500:2012

Pachpadra Results						
S.No.	Test Parameters	Units	Pachpadra Village			Testing Method
	Date of Sampling		13.10.2025	17.11.2025	18.12.2025	
	Sample Code		151025N-E-005	191125N-E-012	201225N-E-012	
1	pH	---	7.88	8.09	8.41	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	IS:3025(Part-10)
3	Temperature	°C	24.2	24	23.1	IS:3025(Part-9)
4	Colour	Hazen	40	42.5	47	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	13.3	14.1	15.2	APHA 25208 24th Edition, 2023
8	Total Suspended Solid	mg/L	35	37	41	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	11134	11849	12750	500/2000 IS:3025(Part-16)
10	Total Alkalinity	mg/L	448	456	470	200/600 IS:3025(Part-23)
11	Total Hardness	mg/L	435.0	449.4	454.2	200/600 IS:3025(Part-21)
12	CaHardness	mg/L	248	252.2	259	IS:3025(Part-21)
13	MgHardness	mg/L	181.8	191.7	189.7	30/100 IS:3025(Part-17)
14	Chlorides	mg/L	5312	5327	5348	250/1000 IS:3025(Part-32)
15	Fluorides	mg/L	3.5	3.56	3.59	1/1.5 APHA 45000 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5 IS:3025(Part-42)
17	Sulphates	mg/L	180.8	185.6	192.4	200/400 IS:3025(Part-24)
18	Sodium	mg/L	6215	6232.6	6253.9	---
19	Iron	mg/L	4.56	4.6	4.63	1 IS:3025(Part-53)
20	Potassium	mg/L	1522.6	1528.9	1537	---
21	Nitrates	mg/L	19.1	20.4	21.7	45 IS:3025(Part-45)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3 APHA 31258 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15 IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02 IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003 IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05 IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01 IS:3025(Part-47)
28	Total Phosphate	mg/L	0.77	0.85	0.94	---
29	DO	mg/L	8	7.8	7.7	---
30	COD	mg/L	54	58	66	---
31	BOD	mg/L	16.9	18.4	19.6	---
32	Total Nitrogen	mg/L	55.4	67	83.5	---
33	Total Phosphorous	mg/L	<1	<1	<1	---
34	Total Coliforms	MPN/100ml	26	28	32	Shall not be Detectable IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable IS:1622:1981

Note: *As per IS 10500:2012 (Desirable/Permissible)

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TC-8207

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS-10500:2012

Pachpadra Results

S.No.	Test Parameters	Units	Sambra Village			Limits	Testing Method
	Date of Sampling		13.10.2025	17.11.2025	18.12.2025		
	Sample Code		151025N-E-006	191125N-E-013	201225N-E-013		
1	pH		7.81	8.02	8.14	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	24	23.8	23.2		IS:3025(Part-9)
4	Colour	Hazen	45	42.5	47	5/15	IS:3025(Part-4)
5	Odour		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste		Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	12.9	13.7	14.8		APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	27	29	33		IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	10816	11531	12432	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	152.6	160.6	174.6	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	436.0	450.4	455.2	200/600	IS:3025(Part-21)
12	Ca Hardness	mg/L	238	242.2	249		IS:3025(Part-21)
13	Mg Hardness	mg/L	192.5	202.4	200.4	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	6012	6027	6048	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	3.42	3.48	3.51	1/1.5	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	468.8	473.6	480.4	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6332.4	6350	6371.3		IS:3025(Part-45)
19	Iron	mg/L	5.53	5.57	5.6	1	IS:3025(Part-53)
20	Potassium	mg/L	1508.4	1514.7	1522.8		IS:3025(Part-45)
21	Nitrates	mg/L	22.9	24.2	25.5	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.62	0.7	0.79		IS:3025(Part-31)
29	DO	mg/L	9.6	9.4	9		IS:3025(Part-38)
30	COO	mg/L	42	46	54		IS:3025(Part-58)
31	BOO	mg/L	18.5	20.1	21.3		IS:3025(Part-44)
32	Total Nitrogen	mg/L	75.5	87.1	103.6		IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1		IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	19	21	25	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: *As per IS 10500:2012 (Desirable/Permissible)

Reviewed by

Authorised by

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Idma Laboratories Limited



TC-8207

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAKHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SURFACE WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	CPCB

Pachpedra Results

S.No.	Test Parameters	Units	Kumbhariya Ka Talav			Testing Method
			10.10.2025	12.11.2025	18.12.2025	
.....	Date of Sampling	.....	10.10.2025	12.11.2025	18.12.2025	
.....	Sample Code	.....	131025N-E-019	151125N-E-031	201225N-E-031	
1	pH	.....	7.76	7.55	7.87	IS:3025(Part-11)
2	Turbidity	NTU	32	35.9	33.6	IS:3025(Part-10)
3	Temperature	°C	24.5	24.3	23.6	IS:3025(Part-9)
4	Colour	Hazen	24	21.5	26	IS:3025(Part-4)
5	Odour	.....	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	.....	Salty	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	99.9	99.9	99.9	APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	39	41	37	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	83912	83927	83903	IS:3025(Part-16)
10	Total Alkalinity	mg/L	3595	3587	3598.1	IS:3025(Part-23)
11	Total Hardness	mg/L	35380	35390	35375	IS:3025(Part-21)
12	Ca Hardness	mg/L	25640	25644.2	25637.4	IS:3025(Part-21)
13	Mg Hardness	mg/L	9467.3	9472.9	9469.4	IS:3025(Part-17)
14	Chlorides	mg/L	36995	37000	37003	IS:3025(Part-32)
15	Fluorides	mg/L	2.5	2.56	2.59	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	3640.8	3642.6	3641.8	IS:3025(Part-24)
18	Sodium	mg/L	9015.4	9017	9015.7	IS:3025(Part-45)
19	Iron	mg/L	1.38	1.44	1.48	IS:3025(Part-53)
20	Potassium	mg/L	1410.8	1411.1	1410.6	IS:3025(Part-45)
21	Nitrates	mg/L	3.42	3.94	4.05	IS:3025(Part-34)
22	Manganese	mg/L	0.33	0.38	0.41	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	0.152	0.214	0.226	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	9.12	9.04	9.13	IS:3025(Part-31)
29	DO	mg/L	7.2	7	7.4	IS:3025(Part-38)
30	COD	mg/L	2212	2208	2216	IS:3025(Part-58)
31	BOD	mg/L	21.9	23.1	21.3	IS:3025(Part-44)
32	Total Nitrogen	mg/L	11.1	11.05	11.13	IS:3025(Part-34)
33	Total Phosphorous	mg/L	3.65	3.86	3.92	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	250	252	260	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	40	30	50	IS:1622:1981

Note: This water does not fall under any prescribed Class.

Idma Laboratories Limited

Reviewed by

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Authorised by





Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Tank water Samra ki Dhani			Testing Method
----	-----	-----	08.10.2025	04.11.2025	01.12.2025	
----	Sample Code	-----	101025N-E-014	061125N-E-026	031225N-E-026	
1	pH	---	7.76	7.84	7.95	IS:3025(Part-11)
2	Turbidity	NTU	8	9.9	10.5	IS:3025(Part-10)
3	Temperature	°C	24.4	23.9	23	IS:3025(Part-9)
4	Colour	Hazen	17	19.5	24	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	26	28	32	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	352	367	391	IS:3025(Part-16)
10	Total Alkalinity	mg/L	195	203	214.1	IS:3025(Part-23)
11	Total Hardness	mg/L	160	170	185	IS:3025(Part-21)
12	Ca Hardness	mg/L	98	102.2	109	IS:3025(Part-21)
13	Mg Hardness	mg/L	60.3	65.9	73.9	IS:3025(Part-17)
14	Chlorides	mg/L	68	73	94	IS:3025(Part-32)
15	Fluorides	mg/L	0.71	0.77	0.8	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	15.4	17.2	18	IS:3025(Part-24)
18	Sodium	mg/L	19.6	21.2	22.5	IS:3025(Part-45)
19	Iron	mg/L	0.37	0.43	0.47	IS:3025(Part-53)
20	Potassium	mg/L	3.3	3.6	3.9	IS:3025(Part-45)
21	Nitrates	mg/L	0.67	0.73	0.75	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.32	0.4	0.49	IS:3025(Part-31)
29	DO	mg/L	8.3	8.1	7.7	IS:3025(Part-38)
30	COD	mg/L	12	16	24	IS:3025(Part-58)
31	BOD	mg/L	2.4	3.6	5.4	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.45	3.5	3.58	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	8	10	14	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

Reviewed by: 10/01/26

Authorised by: 10/01/26

Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SANKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24 th Edition 2023
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Tank water Kasajiyon Ki Dhani			Testing Method
----	-----	-----	08.10.2025	04.11.2025	01.12.2025	
-----	-----	-----	101025N-E-014	061125N-E-026	031225N-E-026	-----
1	pH	---	7.57	7.65	7.77	IS:3025(Part-11)
2	Turbidity	NTU	6.5	8.4	9	IS:3025(Part-10)
3	Temperature	°C	24	24.2	23.6	IS:3025(Part-9)
4	Colour	Hazen	15	17.5	22	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	28	30	34	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	413	428	452	IS:3025(Part-16)
10	Total Alkalinity	mg/L	224	232	243.1	IS:3025(Part-23)
11	Total Hardness	mg/L	175.5	185.6	200.6	IS:3025(Part-21)
12	Ca Hardness	mg/L	120.8	125	131.8	IS:3025(Part-21)
13	Mg Hardness	mg/L	53.2	58.9	66.9	IS:3025(Part-17)
14	Chlorides	mg/L	42	47	58	IS:3025(Part-32)
15	Fluorides	mg/L	0.76	0.82	0.85	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	20.8	22.6	23.4	IS:3025(Part-24)
18	Sodium	mg/L	15.6	17.2	18.5	IS:3025(Part-45)
19	Iron	mg/L	0.32	0.38	0.42	IS:3025(Part-53)
20	Potassium	mg/L	4.2	4.5	4.8	IS:3025(Part-45)
21	Nitrates	mg/L	0.61	0.67	0.69	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.38	0.46	0.55	IS:3025(Part-31)
29	DO	mg/L	7.8	7.6	7.2	IS:3025(Part-38)
30	COD	mg/L	8	12	20	IS:3025(Part-58)
31	BOD	mg/L	3.7	4.9	6.7	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.8	3.85	3.93	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	14	16	20	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

Reviewed by

Authorised by

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Tank water Mandapura Village			Testing Method
.....	Date of Sampling	.....	08.10.2025	04.11.2025	01.12.2025	
.....	Sample Code	.....	101025N-E-014	061125N-E-026	031225N-E-026	
1	pH	---	7.65	7.73	7.85	IS:3025(Part-11)
2	Turbidity	NTU	8	9.9	10.5	IS:3025(Part-10)
3	Temperature	°C	24.2	24.0	23.4	IS:3025(Part-9)
4	Colour	Hazen	6	8.5	13	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	9	11	15	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	382.6	397.6	421.6	IS:3025(Part-16)
10	Total Alkalinity	mg/L	218	226	237.1	IS:3025(Part-23)
11	Total Hardness	mg/L	196.8	207.1	222.1	IS:3025(Part-21)
12	Ca Hardness	mg/L	130.2	134.4	141.2	IS:3025(Part-21)
13	Mg Hardness	mg/L	64.7	70.7	78.6	IS:3025(Part-17)
14	Chlorides	mg/L	55	60	70	IS:3025(Part-32)
15	Fluorides	mg/L	0.48	0.54	0.57	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	20.4	22.2	23	IS:3025(Part-24)
18	Sodium	mg/L	14.8	16.4	17.7	IS:3025(Part-45)
19	Iron	mg/L	0.25	0.31	0.35	IS:3025(Part-53)
20	Potassium	mg/L	3.3	3.6	3.9	IS:3025(Part-45)
21	Nitrates	mg/L	0.56	0.62	0.64	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.49	0.57	0.66	IS:3025(Part-31)
29	DO	mg/L	8	7.8	7.4	IS:3025(Part-38)
30	COD	mg/L	10	14	22	IS:3025(Part-58)
31	BOD	mg/L	2.2	3.4	5.2	IS:3025(Part-44)
32	Total Nitrogen	mg/L	4.1	4.15	4.23	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	12	14	18	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

Reviewed by

Authorised by

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Tank Water Sajiyali Village			Testing Method
	Date of Sampling		08.10.2025	04.11.2025	01.12.2025	
	Sample Code		101025N-E-014	061125N-E-026	031225N-E-026	
1	pH		7.48	7.56	7.68	IS:3025(Part-11)
2	Turbidity	NTU	8.2	10.1	10.7	IS:3025(Part-10)
3	Temperature	°C	23.8	23.5	22.9	IS:3025(Part-9)
4	Colour	Hazen	15	17.5	22	IS:3025(Part-4)
5	Odour		Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste		Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 2520B 24 th Edition, 2023
8	Total Suspended Solid	mg/L	16	18	22	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	623.4	638.4	662.4	IS:3025(Part-16)
10	Total Alkalinity	mg/L	105	113	124.1	IS:3025(Part-23)
11	Total Hardness	mg/L	242.6	252.9	268	IS:3025(Part-21)
12	Ca Hardness	mg/L	174.8	179	185.8	IS:3025(Part-21)
13	Mg Hardness	mg/L	65.9	71.8	79.9	IS:3025(Part-17)
14	Chlorides	mg/L	132	137	158	IS:3025(Part-32)
15	Fluorides	mg/L	0.82	0.88	0.91	APHA 4500D 24 th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	29.8	31.6	32.4	IS:3025(Part-24)
18	Sodium	mg/L	38.2	39.8	41.1	IS:3025(Part-45)
19	Iron	mg/L	0.085	0.145	0.185	IS:3025(Part-53)
20	Potassium	mg/L	17.5	17.8	18.1	IS:3025(Part-45)
21	Nitrates	mg/L	0.69	0.75	0.77	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 3125B 24 th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.75	0.79	0.82	IS:3025(Part-31)
29	DO	mg/L	8.8	8.7	8.4	IS:3025(Part-38)
30	COD	mg/L	12	16.2	24.3	IS:3025(Part-58)
31	BOD	mg/L	2.5	3.7	5.5	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.86	3.91	3.99	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	16	18	20	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

Reviewed by *[Signature]* 10/10/20

Authorised by *[Signature]* 10/10/20

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Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Pachpadra Village					
Date	03.10.2025	31.10.2025	10.11.2025	11.11.2025	05.12.2025	18.12.2025
6:00-7:00	51.7	51.9	52.1	52.3	52	51.7
7:00-8:00	52.6	53.1	53.6	54.1	53.9	53.7
8:00-9:00	52.4	52.7	53	53.3	53.2	53.1
9:00-10:00	52.9	53.4	53.9	54.4	54.2	54
10:00-11:00	52	52.1	52.2	52.3	52.2	52.1
11:00-12:00	52.8	53	53.2	53.4	53.2	53
12:00-13:00	53.4	53.9	54.4	54.9	54.7	54.5
13:00-14:00	53	53.3	53.6	53.9	53.8	53.7
14:00-15:00	52.7	53.2	53.7	54.2	54	53.8
15:00-16:00	52.9	53	53.1	53.2	53.1	53
16:00-17:00	53	53.2	53.4	53.6	53.4	53.2
17:00-18:00	54.5	55	55.5	56	55.9	55.8
18:00-19:00	54.1	54.4	54.7	55	54.9	54.8
19:00-20:00	53.6	54.1	54.6	55.1	54.9	54.7
20:00-21:00	53.2	53.3	53.4	53.5	53.4	53.3
21:00-22:00	51.6	51.8	52	52.2	52.1	52
22:00-23:00	36.1	36.6	37.1	37.6	37.5	37.4
23:00-24:00	34.2	34.5	34.8	35.1	34.9	34.7
24:00-1:00	33.3	33.8	34.3	34.8	34.7	34.6
1:00-2:00	32.5	32.7	32.9	33.1	33	32.9
2:00-3:00	33	33.5	34	34.5	34.3	34.1
3:00-4:00	33.6	33.9	34.2	34.5	34.4	34.3
4:00-5:00	33.4	33.9	34.4	34.9	34.6	34.3
5:00-6:00	35.6	36.1	36.6	37.1	36.9	36.7
Leq Day	52.9	53.2	53.5	53.8	53.7	53.5
Leq Night	34.0	34.4	34.8	35.2	35.0	34.9
LDN	46.6	46.9	47.3	47.6	47.5	47.3

Note: All values in db(A)
Idma Laboratories Limited
Reviewed by
Idma Corporate Park,

391, Industrial Area, Phase - 1

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Sajiyali Village					
Date	03.10.2025	31.10.2025	10.11.2025	11.11.2025	05.12.2025	18.12.2025
6:00-7:00	52	52.2	52.4	52.6	52.3	52
7:00-8:00	52.5	53	53.5	54	53.8	53.6
8:00-9:00	53	53.3	53.6	53.9	53.8	53.7
9:00-10:00	53.4	53.9	54.4	54.9	54.7	54.5
10:00-11:00	53.2	53.3	53.4	53.5	53.4	53.3
11:00-12:00	52.6	52.8	53	53.2	53	52.8
12:00-13:00	53	53.5	54	54.5	54.3	54.1
13:00-14:00	53.8	54.1	54.4	54.7	54.6	54.5
14:00-15:00	53.5	54	54.5	55	54.8	54.6
15:00-16:00	51.5	51.6	51.7	51.8	51.7	51.6
16:00-17:00	52.5	52.7	52.9	53.1	52.9	52.7
17:00-18:00	53.3	53.8	54.3	54.8	54.7	54.6
18:00-19:00	53.2	53.5	53.8	54.1	54	53.9
19:00-20:00	53.6	54.1	54.6	55.1	54.9	54.7
20:00-21:00	53.8	53.9	54	54.1	54	53.9
21:00-22:00	52	52.2	52.4	52.6	52.5	52.4
22:00-23:00	35.4	35.9	36.4	36.9	36.8	36.7
23:00-24:00	34.3	34.6	34.9	35.2	35	34.8
24:00-1:00	33.9	34.4	34.9	35.4	35.3	35.2
1:00-2:00	32	32.2	32.4	32.6	32.5	32.4
2:00-3:00	33.2	33.7	34.2	34.7	34.5	34.3
3:00-4:00	33.9	34.2	34.5	34.8	34.7	34.6
4:00-5:00	33.1	33.6	34.1	34.6	34.3	34
5:00-6:00	34	34.5	35	35.5	35.3	35.1
Leq Day	52.9	53.2	53.6	53.9	53.7	53.6
Leq Night	33.7	34.1	34.6	35.0	34.8	34.6
LDN	46.5	46.9	47.2	47.6	47.4	47.3

Note: All values in db(A)

Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Kiyar Village					
Date	03.10.2025	31.10.2025	10.11.2025	11.11.2025	05.12.2025	18.12.2025
6:00-7:00	52.1	52.3	52.5	52.7	52.4	52.1
7:00-8:00	53.5	54	54.5	55	54.8	54.6
8:00-9:00	53.2	53.5	53.8	54.1	54	53.9
9:00-10:00	54.4	54.9	55.4	55.9	55.7	55.5
10:00-11:00	53.4	53.5	53.6	53.7	53.6	53.5
11:00-12:00	53	53.2	53.4	53.6	53.4	53.2
12:00-13:00	54	54.5	55	55.5	55.3	55.1
13:00-14:00	54.4	54.7	55	55.3	55.2	55.1
14:00-15:00	54.5	55	55.5	56	55.8	55.6
15:00-16:00	51.1	51.2	51.3	51.4	51.3	51.2
16:00-17:00	52.9	53.1	53.3	53.5	53.3	53.1
17:00-18:00	54.3	54.8	55.3	55.8	55.7	55.6
18:00-19:00	53.6	53.9	54.2	54.5	54.4	54.3
19:00-20:00	54.6	55.1	55.6	56.1	55.9	55.7
20:00-21:00	54	54.1	54.2	54.3	54.2	54.1
21:00-22:00	52.4	52.6	52.8	53	52.9	52.8
22:00-23:00	36.4	36.9	37.4	37.9	37.8	37.7
23:00-24:00	34.8	35.1	35.4	35.7	35.5	35.3
24:00-1:00	34.5	35	35.5	36	35.9	35.8
1:00-2:00	32.4	32.6	32.8	33	32.9	32.8
2:00-3:00	34.2	34.7	35.2	35.7	35.5	35.3
3:00-4:00	34.5	34.8	35.1	35.4	35.3	35.2
4:00-5:00	34.2	34.7	35.2	35.7	35.4	35.1
5:00-6:00	35	35.5	36	36.5	36.3	36.1
Leq Day	53.5	53.8	54.1	54.4	54.2	54.1
Leq Night	34.5	34.9	35.3	35.7	35.6	35.4
LDN	47.1	47.5	47.8	48.2	48.0	47.9

Note: All values in db(A)

Idma Laboratories Limited
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Akarli Village					
Date	03.10.2025	31.10.2025	10.11.2025	11.11.2025	05.12.2025	18.12.2025
6:00-7:00	52.4	52.6	52.8	53	52.7	52.4
7:00-8:00	54.5	55	55.5	56	55.8	55.6
8:00-9:00	53.5	53.8	54.1	54.4	54.3	54.2
9:00-10:00	55.4	55.9	56.4	56.9	56.7	56.5
10:00-11:00	53.2	53.3	53.4	53.5	53.4	53.3
11:00-12:00	53.4	53.6	53.8	54	53.8	53.6
12:00-13:00	55.1	55.6	56.1	56.6	56.4	56.2
13:00-14:00	55.4	55.7	56	56.3	56.2	56.1
14:00-15:00	55.2	55.7	56.2	56.7	56.5	56.3
15:00-16:00	51.3	51.4	51.5	51.6	51.5	51.4
16:00-17:00	53.1	53.3	53.5	53.7	53.5	53.3
17:00-18:00	55.3	55.8	56.3	56.8	56.7	56.6
18:00-19:00	54.2	54.5	54.8	55.1	55	54.9
19:00-20:00	55.6	56.1	56.6	57.1	56.9	56.7
20:00-21:00	54.2	54.3	54.4	54.5	54.4	54.3
21:00-22:00	52.6	52.8	53	53.2	53.1	53
22:00-23:00	37.1	37.6	38.1	38.6	38.5	38.4
23:00-24:00	35.4	35.7	36	36.3	36.1	35.9
24:00-1:00	35.5	36	36.5	37	36.9	36.8
1:00-2:00	32.5	32.7	32.9	33.1	33	32.9
2:00-3:00	35.2	35.7	36.2	36.7	36.5	36.3
3:00-4:00	35.4	35.7	36	36.3	36.2	36.1
4:00-5:00	35.2	35.7	36.2	36.7	36.4	36.1
5:00-6:00	35.8	36.3	36.8	37.3	37.1	36.9
Leq Day	54.0	54.3	54.7	55.0	54.8	54.7
Leq Night	35.3	35.7	36.1	36.5	36.3	36.2
LDN	47.8	48.1	48.5	48.8	48.7	48.5

Note: All values in db(A)

Idma Laboratories Limited

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Sambhra Village					
Date	09.10.2025	23.10.2025	05.11.2025	19.11.2025	04.12.2025	18.12.2025
6:00-7:00	53.1	53.3	53.5	53.7	53.4	53.1
7:00-8:00	54.5	55	55.5	56	55.8	55.6
8:00-9:00	53.1	53.4	53.7	54	53.9	53.8
9:00-10:00	52.4	52.9	53.4	53.9	53.7	53.5
10:00-11:00	53.5	53.6	53.7	53.8	53.7	53.6
11:00-12:00	54	54.2	54.4	54.6	54.4	54.2
12:00-13:00	56.1	56.6	57.1	57.6	57.4	57.2
13:00-14:00	56.3	56.6	56.9	57.2	57.1	57
14:00-15:00	56.7	57.2	57.7	58.2	58	57.8
15:00-16:00	51.6	51.7	51.8	51.9	51.8	51.7
16:00-17:00	53	53.2	53.4	53.6	53.4	53.2
17:00-18:00	56.8	57.3	57.8	58.3	58.2	58.1
18:00-19:00	55.1	55.4	55.7	56	55.9	55.8
19:00-20:00	54.3	54.8	55.3	55.8	55.6	55.4
20:00-21:00	54.5	54.6	54.7	54.8	54.7	54.6
21:00-22:00	53.2	53.4	53.6	53.8	53.7	53.6
22:00-23:00	38.6	39.1	39.6	40.1	40	39.9
23:00-24:00	36.3	36.6	36.9	37.2	37	36.8
24:00-1:00	36.5	37	37.5	38	37.9	37.8
1:00-2:00	33.1	33.3	33.5	33.7	33.6	33.5
2:00-3:00	36	36.5	37	37.5	37.3	37.1
3:00-4:00	35.8	36.1	36.4	36.7	36.6	36.5
4:00-5:00	36.2	36.7	37.2	37.7	37.4	37.1
5:00-6:00	35.4	35.9	36.4	36.9	36.7	36.5
Leq Day	54.3	54.6	54.9	55.2	55.0	54.9
Leq Night	36.0	36.4	36.8	37.2	37.1	36.9
LDN	48.2	48.5	48.9	49.2	49.1	48.9

Note: All values in db(A)

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Godara Ki Dhani					
Date	09.10.2025	23.10.2025	05.11.2025	19.11.2025	04.12.2025	18.12.2025
6:00-7:00	52	52.2	52.4	52.6	52.3	52
7:00-8:00	51.5	52	52.5	53	52.8	52.6
8:00-9:00	54	54.3	54.6	54.9	54.8	54.7
9:00-10:00	54.2	54.7	55.2	55.7	55.5	55.3
10:00-11:00	52.7	52.8	52.9	53	52.9	52.8
11:00-12:00	52.9	53.1	53.3	53.5	53.3	53.1
12:00-13:00	53.7	54.2	54.7	55.2	55	54.8
13:00-14:00	53.6	53.9	54.2	54.5	54.4	54.3
14:00-15:00	54.4	54.9	55.4	55.9	55.7	55.5
15:00-16:00	52.8	52.9	53	53.1	53	52.9
16:00-17:00	53	53.2	53.4	53.6	53.4	53.2
17:00-18:00	54.2	54.7	55.2	55.7	55.6	55.5
18:00-19:00	52.5	52.8	53.1	53.4	53.3	53.2
19:00-20:00	53.2	53.7	54.2	54.7	54.5	54.3
20:00-21:00	52.4	52.5	52.6	52.7	52.6	52.5
21:00-22:00	52.8	53	53.2	53.4	53.3	53.2
22:00-23:00	36.2	36.7	37.2	37.7	37.6	37.5
23:00-24:00	35	35.3	35.6	35.9	35.7	35.5
24:00-1:00	34	34.5	35	35.5	35.4	35.3
1:00-2:00	32.6	32.8	33	33.2	33.1	33
2:00-3:00	33.9	34.4	34.9	35.4	35.2	35
3:00-4:00	33	33.3	33.6	33.9	33.8	33.7
4:00-5:00	33.7	34.2	34.7	35.2	34.9	34.6
5:00-6:00	34.8	35.3	35.8	36.3	36.1	35.9
Leq Day	53.1	53.4	53.7	54.1	53.9	53.7
Leq Night	34.2	34.6	35.0	35.4	35.2	35.1
LDN	46.8	47.1	47.5	47.8	47.7	47.5

Note: All values in db(A)

Idma Laboratories Limited
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Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Near Project site Refinery					
Date	09.10.2025	23.10.2025	05.11.2025	19.11.2025	04.12.2025	18.12.2025
6:00-7:00	52.4	52.6	52.8	53	52.7	52.4
7:00-8:00	52.1	52.6	53.1	53.6	53.4	53.2
8:00-9:00	54.5	54.8	55.1	55.4	55.3	55.2
9:00-10:00	55.1	55.6	56.1	56.6	56.4	56.2
10:00-11:00	52.6	52.7	52.8	52.9	52.8	52.7
11:00-12:00	53	53.2	53.4	53.6	53.4	53.2
12:00-13:00	54.6	55.1	55.6	56.1	55.9	55.7
13:00-14:00	54	54.3	54.6	54.9	54.8	54.7
14:00-15:00	55.6	56.1	56.6	57.1	56.9	56.7
15:00-16:00	52.8	52.9	53	53.1	53	52.9
16:00-17:00	52	52.2	52.4	52.6	52.4	52.2
17:00-18:00	55.4	55.9	56.4	56.9	56.8	56.7
18:00-19:00	53.3	53.6	53.9	54.2	54.1	54
19:00-20:00	54.5	55	55.5	56	55.8	55.6
20:00-21:00	52.3	52.4	52.5	52.6	52.5	52.4
21:00-22:00	53.3	53.5	53.7	53.9	53.8	53.7
22:00-23:00	37	37.5	38	38.5	38.4	38.3
23:00-24:00	35.5	35.8	36.1	36.4	36.2	36
24:00-1:00	35.3	35.8	36.3	36.8	36.7	36.6
1:00-2:00	33.1	33.3	33.5	33.7	33.6	33.5
2:00-3:00	35.2	35.7	36.2	36.7	36.5	36.3
3:00-4:00	33.6	33.9	34.2	34.5	34.4	34.3
4:00-5:00	34.5	35	35.5	36	35.7	35.4
5:00-6:00	34	34.5	35	35.5	35.3	35.1
Leq Day	53.6	53.9	54.2	54.5	54.4	54.2
Leq Night	34.8	35.2	35.6	36.0	35.9	35.7
LDN	47.3	47.7	48.0	48.4	48.2	48.0

Note: All values in db(A)

Idma Laboratories Limited

Idma Corporate Park,

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TC-8207

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Near Project site Township					
Date	09.10.2025	23.10.2025	05.11.2025	19.11.2025	04.12.2025	18.12.2025
6:00-7:00	50.8	51	51.2	51.4	51.1	50.8
7:00-8:00	51.6	52.1	52.6	53.1	52.9	52.7
8:00-9:00	52.2	52.5	52.8	53.1	53	52.9
9:00-10:00	53.8	54.3	54.8	55.3	55.1	54.9
10:00-11:00	52.6	52.7	52.8	52.9	52.8	52.7
11:00-12:00	52.7	52.9	53.1	53.3	53.1	52.9
12:00-13:00	53.5	54	54.5	55	54.8	54.6
13:00-14:00	54	54.3	54.6	54.9	54.8	54.7
14:00-15:00	53.8	54.3	54.8	55.3	55.1	54.9
15:00-16:00	53.2	53.3	53.4	53.5	53.4	53.3
16:00-17:00	53	53.2	53.4	53.6	53.4	53.2
17:00-18:00	52.6	53.1	53.6	54.1	54	53.9
18:00-19:00	53.5	53.8	54.1	54.4	54.3	54.2
19:00-20:00	54.6	55.1	55.6	56.1	55.9	55.7
20:00-21:00	55	55.1	55.2	55.3	55.2	55.1
21:00-22:00	54.2	54.4	54.6	54.8	54.7	54.6
22:00-23:00	35.4	35.9	36.4	36.9	36.8	36.7
23:00-24:00	33	33.3	33.6	33.9	33.7	33.5
24:00-1:00	34.7	35.2	35.7	36.2	36.1	36
1:00-2:00	32.4	32.6	32.8	33	32.9	32.8
2:00-3:00	33.5	34	34.5	35	34.8	34.6
3:00-4:00	33.9	34.2	34.5	34.8	34.7	34.6
4:00-5:00	33.7	34.2	34.7	35.2	34.9	34.6
5:00-6:00	35.1	35.6	36.1	36.6	36.4	36.2
Leq Day	53.2	53.5	53.8	54.1	54.0	53.8
Leq Night	34.0	34.4	34.8	35.2	35.0	34.9
L _{DN}	46.8	47.1	47.5	47.8	47.7	47.5

Note: All values in db(A)

Idma Laboratories Limited
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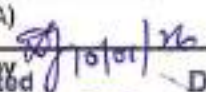
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Dewal Ki Dhani					
Date	09.10.2025	23.10.2025	05.11.2025	19.11.2025	04.12.2025	18.12.2025
6:00-7:00	50.6	50.8	51	51.2	50.9	50.6
7:00-8:00	52.5	53	53.5	54	53.8	53.6
8:00-9:00	52.3	52.6	52.9	53.2	53.1	53
9:00-10:00	54.7	55.2	55.7	56.2	56	55.8
10:00-11:00	52.8	52.9	53	53.1	53	52.9
11:00-12:00	52.5	52.7	52.9	53.1	52.9	52.7
12:00-13:00	54.4	54.9	55.4	55.9	55.7	55.5
13:00-14:00	54.6	54.9	55.2	55.5	55.4	55.3
14:00-15:00	54.3	54.8	55.3	55.8	55.6	55.4
15:00-16:00	53	53.1	53.2	53.3	53.2	53.1
16:00-17:00	53.1	53.3	53.5	53.7	53.5	53.3
17:00-18:00	53.6	54.1	54.6	55.1	55	54.9
18:00-19:00	54	54.3	54.6	54.9	54.8	54.7
19:00-20:00	55.6	56.1	56.6	57.1	56.9	56.7
20:00-21:00	54.8	54.9	55	55.1	55	54.9
21:00-22:00	54.2	54.4	54.6	54.8	54.7	54.6
22:00-23:00	36.2	36.7	37.2	37.7	37.6	37.5
23:00-24:00	33.3	33.6	33.9	34.2	34	33.8
24:00-1:00	35.1	35.6	36.1	36.6	36.5	36.4
1:00-2:00	32.6	32.8	33	33.2	33.1	33
2:00-3:00	34.4	34.9	35.4	35.9	35.7	35.5
3:00-4:00	34.2	34.5	34.8	35.1	35	34.9
4:00-5:00	34	34.5	35	35.5	35.2	34.9
5:00-6:00	35.1	35.6	36.1	36.6	36.4	36.2
Leq Day	53.6	53.9	54.2	54.5	54.3	54.2
Leq Night	34.4	34.8	35.2	35.6	35.4	35.3
LDN	47.2	47.5	47.9	48.2	48.0	47.9

Note: All values in db(A)

Reviewed by  10/10/26

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TC-8207

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005,RAJASTHAN, INDIA					
Work Order No.	LOA No. HRRL/LOA/2023/31					
Type of Sample	AMBIENT NOISE					
Mode of collection of Sample	Sampling by Laboratories					
Sample Collected by	Idma Lab Representative					
Sampling Protocol	CPCB MANUAL					
Testing Protocol	CPCB MANUAL					
Location	Refinery & Township Junction Point					
Date	23.10.2025	30.10.2025	21.11.2025	28.11.2025	05.12.2025	26.12.2025
6:00-7:00	51.1	51.3	51.5	51.7	51.4	51.1
7:00-8:00	51.6	52.1	52.6	53.1	52.9	52.7
8:00-9:00	52.6	52.9	53.2	53.5	53.4	53.3
9:00-10:00	52.2	52.7	53.2	53.7	53.5	53.3
10:00-11:00	52.8	52.9	53	53.1	53	52.9
11:00-12:00	53	53.2	53.4	53.6	53.4	53.2
12:00-13:00	54.1	54.6	55.1	55.6	55.4	55.2
13:00-14:00	53.6	53.9	54.2	54.5	54.4	54.3
14:00-15:00	55.8	56.3	56.8	57.3	57.1	56.9
15:00-16:00	54.7	54.8	54.9	55	54.9	54.8
16:00-17:00	54	54.2	54.4	54.6	54.4	54.2
17:00-18:00	54.6	55.1	55.6	56.1	56	55.9
18:00-19:00	53.5	53.8	54.1	54.4	54.3	54.2
19:00-20:00	54.5	55	55.5	56	55.8	55.6
20:00-21:00	52.8	52.9	53	53.1	53	52.9
21:00-22:00	52.6	52.8	53	53.2	53.1	53
22:00-23:00	35.2	35.7	36.2	36.7	36.6	36.5
23:00-24:00	33.1	33.4	33.7	34	33.8	33.6
24:00-1:00	34.6	35.1	35.6	36.1	36	35.9
1:00-2:00	32.3	32.5	32.7	32.9	32.8	32.7
2:00-3:00	34.1	34.6	35.1	35.6	35.4	35.2
3:00-4:00	33.2	33.5	33.8	34.1	34	33.9
4:00-5:00	34.2	34.7	35.2	35.7	35.4	35.1
5:00-6:00	36.1	36.6	37.1	37.6	37.4	37.2
Leq Day	53.3	53.7	54.0	54.3	54.1	54.0
Leq Night	34.1	34.5	34.9	35.3	35.2	35.0
Ldn	46.9	47.3	47.6	48.0	47.8	47.7

Note: All values in db(A)

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Pachpadra Village			Testing Method
---	---	---	6.10.2025	11.11.2025	18.12.2025	
---	Sample Code	---	081025N-E-007	131125N-E-014	201225N-E-014	---
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.43	7.52	7.54	USEPA 9045D
3	Bulk Density	g/cm ³	1.96	2.31	2.10	EPA Soil screening guidance manual
4	Porosity	%	20.12	21.20	20.93	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	98.72	98.92	98.62	EPA Soil screening guidance manual
7	Silt	%	0.38	0.39	0.52	EPA Soil screening guidance manual
8	Clay	%	0.90	0.69	0.86	EPA Soil screening guidance manual
9	Organic Matter	%	0.92	1.28	0.77	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.11	1.29	1.21	USDA Manual
11	Specific Gravity	mg/kg	2.86	3.37	3.07	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.456	2.766	2.556	USDA Manual
13	Nitrogen	mg/kg	264.35	272.66	260.06	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	18.14	22.25	20.37	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	31.97	36.08	34.20	Manual for soil testing, Govt. of India



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Work Order No.	LOA No.HRR/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Kiyar Village			Testing Method
---	---	---	6.10.2025	11.11.2025	18.12.2025	
---	Sample Code	---	081025N-E-008	131125N-E-015	201225N-E-015	---
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.56	7.75	7.67	USEPA 9045D
3	Bulk Density	g/cm ³	1.94	2.29	2.08	EPA Soil screening guidance manual
4	Porosity	%	20.16	21.24	20.97	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	97.21	97.41	97.11	EPA Soil screening guidance manual
7	Silt	%	0.41	0.42	0.55	EPA Soil screening guidance manual
8	Clay	%	2.38	2.17	2.34	EPA Soil screening guidance manual
9	Organic Matter	%	0.87	1.23	0.72	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.18	1.36	1.28	USDA Manual
11	Specific Gravity	mg/kg	2.83	3.34	3.04	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.514	2.824	2.614	USDA Manual
13	Nitrogen	mg/kg	258.12	276.43	263.83	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	19.23	23.34	21.46	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	30.16	34.27	32.39	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Sajali Village			Testing Method
	Date of Sampling		6.10.2025	11.11.2025	18.12.2025	
	Sample Code		081025N-E-009	131125N-E-016	201225N-E-016	
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH		7.63	7.82	7.74	USEPA 9045D
3	Bulk Density	g/cm ³	2.08	2.43	2.22	EPA Soil screening guidance manual
4	Porosity	%	19.15	20.23	19.96	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	96.92	97.12	96.82	EPA Soil screening guidance manual
7	Silt	%	0.44	0.45	0.58	EPA Soil screening guidance manual
8	Clay	%	2.64	2.43	2.60	EPA Soil screening guidance manual
9	Organic Matter	%	1.06	1.42	0.91	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio		1.23	1.41	1.33	USDA Manual
11	Specific Gravity	mg/kg	3.04	3.55	3.24	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.491	2.801	2.591	USDA Manual
13	Nitrogen	mg/kg	253.18	261.49	248.89	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	16.78	20.89	19.01	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	27.93	32.04	30.16	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS-2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Dewai Ki Dhanl			Testing Method
	Date of Sampling		6.10.2025	11.11.2025	18.12.2025	
	Sample Code		081025N-E-010	131125N-E-017	201225N-E-017	
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH		7.38	7.57	7.49	USEPA 9045D
3	Bulk Density	g/cm ³	1.85	2.20	1.99	EPA Soil screening guidance manual
4	Porosity	%	19.56	20.64	20.37	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.34	95.54	95.24	EPA Soil screening guidance manual
7	Silt	%	0.42	0.43	0.56	EPA Soil screening guidance manual
8	Clay	%	4.24	4.03	4.20	EPA Soil screening guidance manual
9	Organic Matter	%	1.13	1.49	0.98	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio		1.09	1.27	1.19	USDA Manual
11	Specific Gravity	mg/kg	2.70	3.21	2.91	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.504	2.814	2.604	USDA Manual
13	Nitrogen	mg/kg	257.24	265.55	252.95	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.82	24.93	23.05	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	32.04	36.15	34.27	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Sambhara Village			Testing Method
---	---	---	6.10.2025	11.11.2025	18.12.2025	
---	Sample Code	---	081025N-E-001	131125N-E-018	201225N-E-018	---
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.43	7.62	7.54	USEPA 9045D
3	Bulk Density	g/cm ³	1.89	2.24	2.03	EPA Soil screening guidance manual
4	Porosity	%	19.86	20.94	20.67	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	98.05	98.25	97.95	EPA Soil screening guidance manual
7	Silt	%	0.39	0.40	0.53	EPA Soil screening guidance manual
8	Clay	%	1.56	1.35	1.52	EPA Soil screening guidance manual
9	Organic Matter	%	1.09	1.45	0.94	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.05	1.23	1.15	USDA Manual
11	Specific Gravity	mg/kg	2.76	3.27	2.96	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.445	2.755	2.545	USDA Manual
13	Nitrogen	mg/kg	252.16	260.47	247.87	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.28	24.39	22.51	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	28.14	32.25	30.37	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	...

Pachpadra Results

S.No.	Test Parameters	Units	Kasajiyon Kidhani			Testing Method
.....	Date of Sampling	.....	6.10.2025	11.11.2025	18.12.2025	
.....	Sample Code	.....	081025N-E-011	131125N-E-019	201225N-E-019	
1	Type of Soil	.....	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	.....	7.69	7.88	7.80	USEPA 9045D
3	Bulk Density	g/cm ³	1.95	2.31	2.10	EPA Soil screening guidance manual
4	Porosity	%	19.88	20.96	20.69	USDA Manual
5	Soil Texture	.....	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	96.31	96.51	96.21	EPA Soil screening guidance manual
7	Silt	%	0.45	0.46	0.59	EPA Soil screening guidance manual
8	Clay	%	3.24	3.03	3.20	EPA Soil screening guidance manual
9	Organic Matter	%	0.96	1.32	0.81	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	.....	1.21	1.39	1.31	USDA Manual
11	Specific Gravity	mg/kg	2.86	3.37	3.07	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.479	2.769	2.579	USDA Manual
13	Nitrogen	mg/kg	255.12	263.43	250.83	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	18.97	23.08	21.20	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	30.76	34.87	32.99	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	

Pachpadra Results

S.No.	Test Parameters	Units	Gopari Village			Testing Method
			6.10.2025	11.11.2025	18.12.2025	
	Date of Sampling		6.10.2025	11.11.2025	18.12.2025	
	Sample Code		081025N-E-002	131125N-E-020	201225N-E-020	
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH		7.65	7.84	7.76	USEPA 9045D
3	Bulk Density	g/cm ³	2.02	2.37	2.16	EPA Soil screening guidance manual
4	Porosity	%	20.12	21.20	20.93	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	96.95	97.15	96.85	EPA Soil screening guidance manual
7	Silt	%	0.40	0.41	0.54	EPA Soil screening guidance manual
8	Clay	%	2.65	2.44	2.61	EPA Soil screening guidance manual
9	Organic Matter	%	1.25	1.61	1.10	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio		0.98	1.16	1.08	USDA Manual
11	Specific Gravity	mg/kg	2.95	3.46	3.15	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.493	2.803	2.593	USDA Manual
13	Nitrogen	mg/kg	257.84	266.15	253.55	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	19.87	23.98	22.10	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	34.19	38.30	36.42	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Mandapura Village			Testing Method
	Date of Sampling		6.10.2025	11.11.2025	18.12.2025	
	Sample Code		081025N-E-003	131125N-E-021	201225N-E-021	
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH		7.63	7.82	7.74	USEPA 9045D
3	Bulk Density	g/cm ³	1.96	2.31	2.10	EPA Soil screening guidance manual
4	Porosity	%	19.85	20.93	20.66	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.65	95.85	95.55	EPA Soil screening guidance manual
7	Silt	%	0.42	0.43	0.56	EPA Soil screening guidance manual
8	Clay	%	3.93	3.72	3.89	EPA Soil screening guidance manual
9	Organic Matter	%	1.15	1.51	1.00	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio		0.98	1.16	1.08	USDA Manual
11	Specific Gravity	mg/kg	2.86	3.37	3.07	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.519	2.829	2.619	USDA Manual
13	Nitrogen	mg/kg	249.11	257.42	244.82	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	24.71	28.82	26.94	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	39.15	43.26	41.38	Manual for soil testing, Govt. of India

Reviewed by
27/10/26



Authorised by
Kanta 10/10/26



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAKHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	...

Pachpadra Results

S.No.	Test Parameters	Units	Godara Kidhani			Testing Method
.....	Date of Sampling	.....	6.10.2025	11.11.2025	18.12.2025	
.....	Sample Code	.....	081025N-E-004	131125N-E-022	201225N-E-022	
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.38	7.57	7.49	USEPA 9045D
3	Bulk Density	g/cm ³	2.03	2.38	2.17	EPA Soil screening guidance manual
4	Porosity	%	19.96	21.04	20.77	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.31	95.51	95.21	EPA Soil screening guidance manual
7	Silt	%	0.37	0.38	0.51	EPA Soil screening guidance manual
8	Clay	%	4.32	4.11	4.28	EPA Soil screening guidance manual
9	Organic Matter	%	1.29	1.65	1.14	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.14	1.32	1.24	USDA Manual
11	Specific Gravity	mg/kg	2.96	3.47	3.17	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.477	2.787	2.577	USDA Manual
13	Nitrogen	mg/kg	250.16	258.47	245.87	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	25.86	29.97	28.09	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	40.91	45.02	43.14	Manual for soil testing, Govt. of India

Reviewed by
26/10/2025



Authorised by
26/10/2025



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRU/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Kalawa Village			Testing Method
---	---	---	6.10.2025	11.11.2025	18.12.2025	
---	Sample Code	---	081025N-E-005	131125N-E-023	201225N-E-023	---
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.43	7.62	7.54	USEPA 9045D
3	Bulk Density	g/cm ³	1.94	2.29	2.08	EPA Soil screening guidance manual
4	Porosity	%	20.92	22.00	21.73	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.75	95.95	95.65	EPA Soil screening guidance manual
7	Silt	%	0.46	0.47	0.60	EPA Soil screening guidance manual
8	Clay	%	3.66	3.58	3.75	EPA Soil screening guidance manual
9	Organic Matter	%	1.27	1.63	1.12	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.13	1.31	1.23	USDA Manual
11	Specific Gravity	mg/kg	2.83	3.34	3.04	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.495	2.805	2.595	USDA Manual
13	Nitrogen	mg/kg	255.96	264.27	251.67	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.81	24.92	23.04	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	37.19	41.30	39.42	Manual for soil testing, Govt. of India

Reviewed by
20/01/26



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAHKAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRKL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Champa Beri Village			Testing Method
			6.10.2025	11.11.2025	18.12.2025	
	Date of Sampling		081025N-E-012	131125N-E-024	201225N-E-024	
	Sample Code					
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH		7.41	7.60	7.52	USEPA 9045D
3	Bulk Density	g/cm ³	1.99	2.34	2.13	EPA Soil screening guidance manual
4	Porosity	%	20.12	21.20	20.93	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.93	96.13	95.83	EPA Soil screening guidance manual
7	Silt	%	0.41	0.42	0.55	EPA Soil screening guidance manual
8	Clay	%	3.66	3.45	3.62	EPA Soil screening guidance manual
9	Organic Matter	%	1.22	1.58	1.07	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio		1.05	1.23	1.15	USDA Manual
11	Specific Gravity	mg/kg	2.91	3.42	3.11	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.504	2.814	2.604	USDA Manual
13	Nitrogen	mg/kg	247.94	256.25	243.65	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	21.18	25.29	23.41	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	33.11	37.22	35.34	Manual for soil testing, Govt. of India

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10/10/26
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Idma Laboratories Limited



TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEL BHAWAN, SAKHAR MARG, LAL KOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No.HRRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Mandapura Village -1			Testing Method
---	Date of Sampling	---	6.10.2025	11.11.2025	18.12.2025	
---	Sample Code	---	081025N-E-013	131125N-E-025	201225N-E-025	
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.29	7.48	7.40	USEPA 9045D
3	Bulk Density	g/cm ³	1.95	2.30	2.09	EPA Soil screening guidance manual
4	Porosity	%	19.84	20.92	20.65	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.12	95.32	95.02	EPA Soil screening guidance manual
7	Silt	%	0.44	0.45	0.58	EPA Soil screening guidance manual
8	Clay	%	4.44	4.23	4.40	EPA Soil screening guidance manual
9	Organic Matter	%	1.11	1.47	0.96	APHA 2540G 24th Edition 2023
10	Sodium Absorption Ratio	---	1.18	1.36	1.28	USDA Manual
11	Specific Gravity	mg/kg	2.85	3.36	3.05	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.565	2.875	2.665	USDA Manual
13	Nitrogen	mg/kg	258.56	266.87	254.27	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.23	24.34	22.46	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	32.97	37.08	35.20	Manual for soil testing, Govt. of India

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TELBHAWAN, SANKARMARG, LAKHOTI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo HRHL/10JA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample collected by	Idma Lab Representative
Sampling Protocol	MAADMS/36/2012-31
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Pachpadra Village		Specifications	Methods
...	Date of Sampling	.....	06.1.2026	27.1.2026		
...	Sample Code	.....	08126N-E-001	29126N-E-002		
1	Particulate Matter (PM10)	µg/m ³	74.5	76	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	33.9	33.1	Max.60	IS:5182(Part-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.24	14.44	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.92	16.4	Max.80	IS:5182(Part-6)
5	HC (Methane & Non-Methane)(NMHC)	µg/m ³	123.1	114.6	.	IS:5182(Part-21)
6	Benzene (C ₆ H ₆)	µg/m ³	<2.0	1.2	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	1.21	120.9	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.58	0.44	0.39	0.42	0.48	0.42	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	7.8	8.1	8.3	8.2	8	7.7	Max.180	IS:5182(Part-9)

27/01/26
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKARMARG, LALKOTHRIVISTAR, PLOT NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	IDA No.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing,Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/MS/36/2017-13
Testing Protocol	NAAQS and CPEB

Pachpadra Results

Sr. No.	Parameters	Unit	Pachpadra Village		Specifications	Methods
.....	Date of Sampling	.....	03.2.2026	24.2.2026		
.....	Sample Code	.....	05226N-E-004	26226N-E-003		
1	Particulate Matter (PM10)	ug/m ³	75.1	76.6	Max 130	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	ug/m ³	34.2	33.4	Max 60	ISO/SP/03,ISSUE NO-1
3	Sulphur Dioxide (SO ₂)	ug/m ³	15.41	15.74	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	ug/m ³	17.72	16.7	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)/NMHC	ug/m ³	126.3	121.9	.	IS:5182(Part-21)
6	Benzene asC ₆ H ₆	ug/m ³	<1.0	<1.0	Max 5	IS:5182(Part-11)
7	VOCs	ug/m ³	123.7	119.1	..	IS 5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.41	0.47	0.42	0.45	0.51	0.46	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	ug/m ³	7.6	7.9	8.1	8	7.8	7.1	Max.180	IS 5182(Part-9)



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKARMARG, LALKOTHPASTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRRL/LDA/2023/33
Type of Sample	Ambient Air
Packing Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample collected by	Idma Lab Representative
Sampling Protocol	HAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sl. No.	Parameters	Unit	Pachpadra Village		Specifications	Methods
.....	Date of Sampling	...	02.3.2026	29.3.2026		
.....	Sample Code	---	14326N-E-007	31326N-E-002		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.5	77	Max 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.4	33.6	Max 60	IS:5182(Part-23)
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	15.74	16.04	Max 80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	17.92	16.8	Max 80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	$\mu\text{g}/\text{m}^3$	126.3	122	..	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	124.6	120.2	..	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.43	0.45	0.44	0.47	0.53	0.48	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	7.92	8.22	8.42	8.32	8.12	7.82	Max.180	IS:5182(Part-9)



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Idma Laboratories Limited

TEST REPORT

Customer	MPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM/5/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Richhola Village		Specifications	Methods
.....	Date of Sampling	.....	08.1.2026	27.1.2026		
.....	Sample Code	.....	08126N-E-002	29126N-E-003		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	76.3	77.8	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	34.8	34	Max.60	IS:5182(Part-23)
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.32	14.1	Max.80	IS:5182(Part-7)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.75	19.04	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	$\mu\text{g}/\text{m}^3$	117.9	129.6	..	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.1	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	115.8	127.2	.	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Specifications	Methods
			0-8 hrs	08-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m^3	0.78	0.8	0.79	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	3.6	8.9	0.1	Max.180	IS:5182(Part-9)

Reviewed



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TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKARMARG, LALKOTHEVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANO.HRHI/10A/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratory
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2017-13
Testing Protocol	NAAQS and CPCB

Panchpada Results

Sr. No.	Parameters	Unit	Richholi Village		Specifications	Methods
....	Date of Sampling	....	03.2.2026	24.2.2026		
....	Sample Code	....	05226N-E-005	26226N-E-004		
1	Particulate Matter (PM ₁₀)	µg/m ³	76.9	78.4	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	35.1	34.3	Max.60	IDL/SF/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.52	14.3	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.56	18.85	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane(NMHC))	µg/m ³	121.1	128.2		IS:5182(Part-21)
6	Benzene asC ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	118.5	125.4		IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.81	0.87	0.82	0.84	0.9	0.85	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	8.4	8.7	8.9	9.2	8.1	7.8	Max.180	IS:5182(Part-9)

Sp/10/04/26.
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANO.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM5/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Richhoh Village		Specifications	Methods
			02.3.2026	29.3.2026		
.....	Date of Sampling	.....	02.3.2026	29.3.2026		
.....	Sample Code	.....	14326N-E-008	31326N-E-003		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	77.3	78.8	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	35.3	34.5	Max.60	IDLSP/03,ISSUE NO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.82	14.6	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.75	18.95	Max.80	IS:5182(Part-6)
5	H-C (Methane & Non Methane) NM-HC	$\mu\text{g}/\text{m}^3$	121.1	128.2	...	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5192(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	119.4	126.4	...	IS:5192(Part-11)

CHEMICAL TESTING (Ambient Air) 2 hourly

S.No	Test Parameters	Units	Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.83	0.87	0.85	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	8.72	9.02	9.22	Max.180	IS:5182(Part-9)

Reviewed by



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TILBHAWAN,SAHKARMARG, LALKOTHIWSTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANn HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of Collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM/26/2017-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods
.....	Date of Sampling	.....	06.1.2026	27.1.2026		
.....	Sample Code	.....	08126N-E-003	29126N-E-004		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	62.9	57.9	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.5	29.7	Max.60	IDL/SP/03,IS:5182(Part-1)
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.84	17.14	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.04	16.32	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	$\mu\text{g}/\text{m}^3$	133.6	146.1	...	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.2	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	129.5	123.4	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 Hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]	[0-8 hrs]	[8-16 hrs]	[16-24 hrs]		
8	Carbon Monoxide (CO)	mg/m^3	0.71	0.72	0.7	0.74	0.77	0.76	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	7.2	7.5	7.7	7.4	7.2	6.9	Max.180	IS:5182(Part-9)



Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

Haryana (India)

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD, TELBHAWAN, SAHKARMARG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/36/2017-13
Testing Protocol	NAAQS and CPCB

Panchpada Results										
Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods				
.....	Date of Sampling	.....	03.2.2026	24.2.2026						
....	Sample Code	....	05226N-E-006	26226N-E-005						
1	Particulate Matter (PM ₁₀)	µg/m ³	63.5	58.5	Max.100	IS:5182(Part-23)				
2	Particulate Matter (PM _{2.5})	µg/m ³	30.8	30	Max.60	IS:5182(Part-23)				
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.04	17.34	Max.80	IS:5182(Part-3)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.82	18.12	Max.80	IS:5182(Part-6)				
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	134.8	124.4	.	IS:5182(Part-21)				
6	Benzene asC ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)				
7	VOCs	µg/m ³	137.2	121.5	..	IS:5182(Part-11)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Specifications	Methods			
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)					
8	Carbon Monoxide (CO)	mg/m ³	0.74	0.72	0.69	0.77	0.79	0.75	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	7	7.3	7.5	7.2	7	6.7	Max.180	IS:5182(Part-9)

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Authorized Signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARIMARG, LAIKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.IIRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/35/2012-13
Testing Protocol	NAAQS and CPCB

Panchpada Results

Sr. No.	Parameters	Unit	Kiyar Village		Specifications	Methods
....	Date of Sampling	....	02.3.2026	29.3.2026		
....	Sample Code	....	14326N-E-009	31326N-E-004		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	63.9	58.9	Max 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31	30.2	Max 50	IDL/SP/03,IS:5182 NO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	17.34	17.64	Max 80	IS 5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.92	18.22	Max 80	IS:5182(Part-5)
5	HC (Methane & Non Methane)(NMHC)	$\mu\text{g}/\text{m}^3$	134.8	124.4	...	IS:5182(Part-21)
6	Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max 5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	133.1	122.6	...	IS 5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.76	0.74	0.71	0.79	0.81	0.77	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	7.32	7.62	7.82	7.52	7.32	7.02	Max.180	IS:5182(Part-9)

10/04/26
Rev. Authority



10/04/26
Author's Signature



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Idma Laboratories Limited

TEST REPORT

Customer	MPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LALKOTHIYISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRR:/LOV/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch.
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	INAQMS/SE/2012-13
Testing Protocol	NAAQS and CPCB

Pachydra Results								
Sr. No.	Parameters	Unit	Sajiyali Village			Specifications	Methods	
....	Date of Sampling	....	06.1.2026	27.1.2026				
....	Sample Code	....	08126N-E-004	29126N-E-005				
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.5	73	Max.100	IS:4182(Part-23)		
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	33.4	32.6	Max.60	IS:5182(Part-11)		
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	16.54	16.84	Max.80	IS:5182(Part-2)		
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.25	18.55	Max.80	IS:4182(Part-6)		
5	HC (Methane & Non Methane) (NMHC)	$\mu\text{g}/\text{m}^3$	120.8	125.1	..	IS:5182(Part-21)		
6	Benzene (C ₆ H ₆)	$\mu\text{g}/\text{m}^3$	<1.0	1.3	Max.5	IS:5182(Part-11)		
7	VOCs	$\mu\text{g}/\text{m}^3$	118.7	122.4		IS:5182(Part-11)		
CHEMICAL TESTING (Ambient Air) 8 hourly								
S.No	Test Parameters	Units	Results			Specifications	Methods	
			10-8 hrs	18-16 hrs	16-24 hrs			
8	Carbon Monoxide (CO)	mg/m^3	0.55	0.61	0.56	Max.4	IS:5182(Part-10)	
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	10.5	10.8	11	Max.180	IS:5182(Part-5)	

Reviewed by
10/04/26



Authorized Signature
10/04/26



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TEST REPORT

Customer	MPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.		
Work Order No.	LOANR HRL/LOA/2023/31		
Type of Sample	Ambient Air		
Packing, Markings	Filter Paper packed in Polythene Pouch		
Mode of collection of Sample	Sampling by Laboratories		
Sample Collected by	Idma Lab Representative		
Sampling Protocol	NAAQM/5/36/2012-13		
Testing Protocol	NAAQS and CPCB		

Paripadra Results										
Sr. No.	Parameters	Unit	Sajiyali Village		Specifications	Methods				
.....	Date of Sampling	.....	09.2.2026	24.2.2026						
.....	Sample Code	.....	05226M-E-007	26226M-E-006						
1	Particulate Matter (PM10)	µg/m ³	73.1	73.6	Max. 100	IS:5182(Part-23)				
2	Particulate Matter (PM2.5)	µg/m ³	33.7	37.1	Max. 50	ISI/45/33 (SI/END-3)				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.74	17.04	Max. 90	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.05	18.35	Max. 80	IS:5182(Part-5)				
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	124	123.4	...	IS:5182(Part-21)				
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)				
7	VOCs	µg/m ³	121.4	120.6	...	IS:5182(Part-11)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Specifications	Methods			
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)
8	Carbon Monoxide (CO)	mg/m ³	0.58	1.41%	0.51	0.59	0.61	0.57	Max. 4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	10.2	10.6	10.8	10.5	10.3	10	Max.100	IS:5182(Part-9)

Reviewed by
10/04/26



Authorized Signatory



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LCANO-HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Sajiyali Village		Specifications	Methods
			02.3.2026	29.3.2026		
.....	Date of Sampling	.....	02.3.2026	29.3.2026		
.....	Sample Code	.....	14326N-E-010	31326N-F-005		
1	Particulate Matter (PM ₁₀)	µg/m ³	73.5	74	Max. 100	IS:5182(Part-73)
2	Particulate Matter (PM _{2.5})	µg/m ³	53.9	33.1	Max. 60	IDL/SP/03, ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.04	17.34	Max. 80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.25	18.45	Max. 80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(MHC)	µg/m ³	124	123.4	...	IS:5182(Part-71)
6	Benzene asC ₆ H ₆	µg/m ³	<1.0	<1.0	Max. 5	IS:5182(Part-11)
7	VOCs	µg/m ³	122.3	121.6	..	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			0-8 hrs	08-16 hrs	16-24 hrs	0-8 hrs	08-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.6	1.05	0.91	0.61	0.63	0.59	Max. 4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	10.62	10.92	11.12	10.82	10.62	10.32	Max. 180	IS:5182(Part-9)



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELDHAWAN, SAKHARMAARG, LAUKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM5/36/2012-13
Testing Protocol	NAAQS and 4'PCR

Pachpadra Results

Sr. No.	Parameters	Unit	Samra Ki Ohari		Specifications	Methods
---	Date of Sampling	---	03.1.2026	08.1.2026		
---	Sample Code	---	06126N-E-005	10126N-E-001		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.9	74.4	Max 100	IS 5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.17	30.32	Max 60	IDL/SP/03,IS5050
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.53	16.83	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	18.11	18.41	Max.80	IS:5182(Part-5)
5	HC (Methane & Non Methane)(NMHC)	$\mu\text{g}/\text{m}^3$	134.9	130.6	..	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1.1	Max 5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	132.2	127.9	.	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 Hourly

S.No	TestParameters	Units	Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.88	0.9	0.89	Max.4	IS:5182(Part-20)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	9.1	9.4	9.6	Max.180	IS:5182(Part-9)



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, JALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/3E/2012 13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Samra Ki Dhani		Specifications	Methods				
.....	Date of Sampling	.....	10.2.2026	26.2.2026						
.....	Sample Code	.....	12226N-E-008	29226N-E-007						
1	Particulate Matter (PM ₁₀)	µg/m ³	74.5	75	Max.100	IS:5182(Part-23)				
2	Particulate Matter (PM _{2.5})	µg/m ³	11.42	30.62	Max.60	IS:5182(Part-23)				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.73	17.03	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.91	18.21	Max.80	IS:5182(Part-6)				
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	127.5	128.9	...	IS:5182(Part-21)				
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)				
7	VOCs	µg/m ³	134.9	126.1	...	IS:5182(Part-11)				
CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.93	0.97	0.93	0.95	0.97	0.94	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	8.9	9.2	9.4	9.2	9	8.7	Max.180	IS:5182(Part-9)

Signature
10/04/26



Authorized Laboratory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

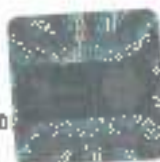
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD, TELBHAWAN, SAHKARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No	LOANo HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/36/2012-13
Testing Protocol	NAAQS and CPCB

Particulate Results

Sr. No.	Parameter s	Unit	Sample KI Dhoni		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-081	03326N-E-008		
1	Particulate Matter (PM10)	µg/m ³	74.9	75.4	Max 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	31.62	30.82	Max.60	IDL/5P/03.ISSUEND-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.03	17.34	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.11	18.31	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	137.5	128.9	..	IS 5182(Part-21)
6	Benzene asC ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS 5182(Part-11)
7	VOCs	µg/m ³	145.8	127.1	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.92	0.97	0.93	0.97	1	0.98	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	9.72	9.57	9.72	9.57	9.32	9.02	Max 180	IS:5182(Part-9)

Reviewed by



Authorised Signature



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited

TEST REPORT

Customer	MPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARIMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM5/36/2017-13
Testing Protocol	NAAQS and CPCB

Pachgadra Results

Sr. No.	Parameters	Unit	Kesariyon Ki Dhanl		Specifications	Methods
---	Date of Sampling	---	03.1.2026	08.1.2026		
---	Sample Code	---	Q6126N-E-006	10126N-E-001		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	41.2	61.6	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	29.5	28.7	Max.60	IDL/5P/03,IS5UEND-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	12.04	12.34	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	15.85	15.16	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)NMHC	$\mu\text{g}/\text{m}^3$	116.5	120.3	..	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	1	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	114.4	117.6	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.87	0.51	0.85	0.89	0.89	0.83	Max.4	IS:5162(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	8.1	8.4	8.5	8.5	8.3	8	Max.180	IS:5182(Part-9)



Idma Laboratories Limited

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TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LAKHOTIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANN HRRL/LDA/2022/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAALIMS/36/2012-13
Testing Protocol	NAAQ5 and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Kesajyon Ki Dhani		Specifications	Methods
			10.2.2026	26.2.2026		
.....	Date of Sampling	.....	10.2.2026	26.2.2026		
.....	Sample Code	.....	12226N-E-008	18226N-E-007		
1	Particulate Matter (PM10)	µg/m ³	61.8	62.2	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	29.6	29	Max.60	IND/SP/11-3,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.24	12.54	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	15.66	15.95	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	µg/m ³	119.7	118.0		IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	117.1	115.8	..	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Specifications	Methods
			{0-8 hrs}	{8-16 hrs}	{16-24 hrs}		
8	Carbon Monoxide (CO)	mg/m ³	0.0	0.02	0.03	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	7.9	8.2	8.4	Max.180	IS:5182(Part-4)

10/04/26
Reviewed



10/04/26
Authorized Signatory



Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No	LDANG HRBL/LQA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	WAGMS/36/2012 IS
Testing Protocol	NAAQS and CPCB

Pachpadra Results						
Sr. No.	Parameters	Unit	Resalyon Ki Dhami		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-012	03326N-E-007		
1	Particulate Matter (PM10)	µg/m ³	62.3	62.6	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	30	29.2	Max.60	IDL/SP/03,ISSUE NO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	12.54	12.84	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	15.86	16.26	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (VMHC)	µg/m ³	119.7	118.6	...	IS:5182(Part-21)
6	Benzene (C ₆ H ₆)	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	118	116.8	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly										
S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.92	0.97	0.93	0.94	0.97	0.95	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	8.22	8.57	8.72	8.62	8.42	8.12	Max.180	IS:5182(Part-9)

Reviewed By
10/04/26



Authorized Signatory
10/04/26



Idma Laboratories Limited

Idma Corporate Park,
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Panchkula - 134113,
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TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LO/No.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/3E/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Samble Village (Near Panchayat Area)		Specifications	Methods
.....	Date of Sampling	....	03.1.2026	08.1.2026		
....	Sample Code	....	06126N-E-007	10126N-E-002		
1	Particulate Matter (PM ₁₀)	µg/m ³	75.2	74.7	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.65	20.85	Max.50	IDL/SP/23,ISSUED-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.12	16.42	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.14	19.84	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	127.4	124.6	.	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	1.1	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	125.3	121.9	..	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameter	Units	Results			Results			Specifications	Methods
			0-8 hrs	8-16 hrs	16-24 hrs	0-8 hrs	8-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.53	0.59	0.54	0.55	0.61	0.56	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.8	20.1	20.3	20.3	20.1	19.8	Max.180	IS:5182(Part-9)



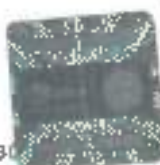
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LALKOTHVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No	LOANo.14RBL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Sambhar Village (Near Panchayat Area)		Specifications	Methods
.....	Date of Sampling	.....	10.2.2026	26.2.2026		
.....	Sample Code	.....	12226N-E-009	26226N-E-008		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	75.8	76.3	Max 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	30.05	30.15	Max.40	IDL/SP/03,ISSUE NO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.32	16.62	Max.80	IS 5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.94	18.24	Max.80	IS 5182(Part-G)
5	HC (Methane & Non Methane/NMHC)	$\mu\text{g}/\text{m}^3$	130.6	122.9	...	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	128	120.1	.	IS:5182(Part-17)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.56	0.62	0.57	0.58	0.6	0.57	Max 4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	19.6	19.9	20.1	20.1	19.9	19.6	Max 180	IS:5182(Part-9)

10/04/26
Ravi Wadhwa



10/04/26
Author Laboratory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAMKARMARG, LALKOTHIWSTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM5/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Samble Village (Near Panchkula Area)		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-013	03326N-E-006		
1	Particulate Matter (PM10)	µg/m ³	76.2	76.7	Max. 100	IS:5182(Part-4d)
2	Particulate Matter (PM2.5)	µg/m ³	31.15	30.35	Max. 60	IS:5182(Part-4d)
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.67	16.42	Max. 80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.24	18.34	Max. 80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	µg/m ³	130.6	122.9		IS:5182(Part-21)
6	Benzene (C ₆ H ₆)	µg/m ³	<1.0	<1.0	Max. 5	IS:5182(Part-11)
7	VOCs	µg/m ³	128.9	121.1	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Specifications	Methods
			0-8 hrs	8-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.58	0.64	0.49	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.92	20.22	20.42	Max.180	IS:5182(Part-9)



Idma Laboratories Limited

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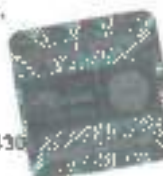
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LAIKOTHEVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No	LOPNO HRR/LQA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Gopal Village		Specifications	Methods
.....	Date of Sampling	.....	03.1.2026	08.1.2026		
.....	Sample Code	.....	06126N-E-008	10126N-E-003		
1	Particulate Matter (PM ₁₀)	µg/m ³	71.0	72.4	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	29.8	29	Max.60	ISI/5182/03,ISS:ENQ-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.15	16.45	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.50	17.84	Max.80	IS:5182(Part-5)
5	HC (Methane & Non Methane)NMHC)	µg/m ³	124.8	121.9		IS:5182(Part-71)
6	Benzene and Toluene	µg/m ³	<1.0	1.3	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	122.7	119.2	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Specifications	Methods
			0-8 hrs	08-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.39	0.45	0.4	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.4	19.7	19.9	Max.150	IS:5182(Part-9)



Authorised Signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAMKARMARG, LALKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packaging/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Gopari Village		Specifications	Methods
---	Date of Sampling	---	10.2.2026	26.2.2026		
---	Sample Code	---	12226N-E-010	28226N-E-009		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	72.5	73	Max. 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	40.1	29.3	Max. 60	IDL/SP/03/SSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.35	16.65	Max. 80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.34	17.64	Max. 80	IS:5182(Part-6)
5	HC (Methane & Non Methane (NMHC))	$\mu\text{g}/\text{m}^3$	128	128.7	...	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max. 5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	125.4	117.4	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results						Specifications	Methods
			[0-8 hrs]	[8-16 hrs]	[16-24 hrs]	[0-8 hrs]	[8-16 hrs]	[16-24 hrs]		
8	Carbon Monoxide (CO)	mg/m^3	0.47	0.48	0.43	0.45	0.47	0.44	Max. 4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	19.2	19.5	19.7	19.5	19.3	19	Max. 180	IS:5182(Part-9)

Reviewed by



Authorised Signatory



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TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHAKARBAG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANs.HRHL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAADM5/36/2017-13
Testing Protocol	NAQIs and CPCB

Pachpada Results

Sr. No	Parameters	Unit	Gopal Village		Specifications	Methods
...	Date of Sampling	....	02.3.2026	31.3.2026		
...	Sample Code	....	04326N-E-D14	03326N-E-009		
1	Particulate Matter (PM10)	µg/m ³	72.5	79.4	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	20.3	24.5	Max.60	IS:5182(Part-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.65	16.95	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.54	17.74	Max.100	IS:5182(Part-6)
5	H ₂ (Methane & Non Methane)(NMHC)	µg/m ³	126	120.2	...	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	126.3	118.4	.	IS:5182(Part-13)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results						Specifications	Methods
			0-8 hrs	0-16 hrs	16-24 hrs	0-8 hrs	0-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.44	0.4	0.45	0.47	0.5	0.48	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.52	19.82	20.02	19.82	19.62	19.32	Max.180	IS:5182(Part-9)

Signature
10/04/26

Author's Signature



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELSHAWAN, SAHKARMARG, LALKOTHI VISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.KRR./LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Kalaawa Village		Specifications	Methods
.....	Date of Sampling	.....	03.1.2026	08.1.2026		
.....	Sample Code	.....	06126N-E-009	10126N-E-004		
1	Particulate Matter (PM ₁₀)	µg/m ³	73.6	74.4	Max.100	IS:5182(Part-2A)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.94	30.14	Max.60	IDL/SP/03,ISSUED NO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	17.05	17.35	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	18.96	19.26	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	117.6	115.6	.	IS:5182(Part-25)
6	Benzene as C ₆ H ₆	µg/m ³	1.0	1.14	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	115.5	113.1	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results			Results			Specifications	Methods
			(0-2 hrs)	(8-16 hrs)	(16-24 hrs)	(0-2 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.55	0.61	0.56	0.57	0.63	0.58	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.7	20	20.2	20.1	19.0	19.6	Max.180	IS:5182(Part-9)

Signature
Reviewed By



Signature
Authorized Signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAR, SAHKARMARG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HPRL/UDA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	MAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Katawa Village		Specifications	Methods
....	Date of Sampling	....	10.2.2026	26.2.2026		
....	Sample Code	....	12226N-E-011	26226N-E-010		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	74.2	75	Max.100	S.5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.24	33.44	Max.60	IS/SP/03,ISSUE NO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.25	17.55	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.76	19.06	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	$\mu\text{g}/\text{m}^3$	120.8	114.1	..	IS:5182(Part-21)
6	Benzene asC ₆ H ₆	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	118.2	111.3	.	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 Hourly

S.No	TestParameters	Units	Results			Specifications	Methods
			10-8 hrs	8-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m^3	0.58	0.64	0.59	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	13.5	19.8	20	Max.120	IS:5182(Part-9)



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANo.HKRL/LHA/2024/11
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Kalawa Village		Specifications	Methods
....	Date of Sampling	....	02.3.2026	31.3.2026		
....	Sample Code	....	04326N-E-015	03326N-E-010		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	24.5	25.4	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.44	30.64	Max.60	IS:5182(Part-23)
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	17.55	17.85	Max.80	IS:5182(Part-21)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.96	19.10	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane(NMHC))	$\mu\text{g}/\text{m}^3$	120.8	114.1	...	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	119.1	112.3	..	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hour fly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			10-8 hrs	18-16 hrs	10-24 hrs	10-8 hrs	18-16 hrs	10-24 hrs		
8	Carbon Monoxide (CO)	mg/m^3	0.6	0.66	0.61	0.62	0.65	0.62	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	19.87	20.1	20.37	20.77	20.02	19.72	Max.180	IS:5182(Part-9)

18/04/26
Reviewed by



18/04/26
Authorized Signatory



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Idma Laboratories Limited

TEST REPORT

Customer	MPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LAUKOTMIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No	LOAND.HRAU/LOA/2023/31
Type of Sample	Ambient Air
Packing Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/5/36/2012-L3
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Mandapura Village		Specifications	Methods
.....	Date of Sampling	.....	03.1.2026	08.1.2026		
.....	Sample Code	.....	06126N-E-010	10126N-E-005		
1	Particulate Matter (PM10)	µg/m ³	70.6	72.1	Max.100	IS 5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	31.3	30.5	Max.60	IDL/SP/03.ISSUE-NO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.49	15.79	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.63	17.93	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	122.5	126.4	..	IS:5182(Part-21)
6	Benzene (C ₆ H ₆)	µg/m ³	<1.0	1.05	Max.5	IS:5182(Part-11)
7	VDL's	µg/m ³	120.4	123.7	...	IS 5182(Part-13)

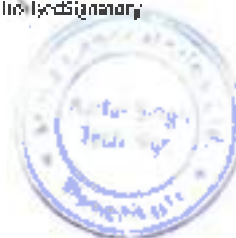
CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.43	0.40	0.44	0.45	0.51	0.46	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.5	19.8	20	19.7	19.5	19.2	Max.180	IS:5182(Part-9)

29/04/26
Reviewed



10/04/26
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARBAG, LALKOTHVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANQ HHRL/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAACMS/36/2012-13
Testing Protocol	NAAQ5 and CPCB

Particulars Results

Sr. No.	Parameters	Unit	Mandapura Village		Specifications	Methods
			10.2.2026	26.2.2026		
.....	Date of Sampling	.....	10.2.2026	26.2.2026		
.....	Sample Code	.....	12226N-E-012	28226N-E-011		
1	Particulate Matter (PM10)	µg/m ³	71.2	72.7	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	31.5	30.8	Max.60	IDL/5P/03/ISSI-ENQ-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	15.69	15.99	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	17.43	17.73	Max.60	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	µg/m ³	125.7	124.7		IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	123.1	121.9	...	IS:5182(Part-11)

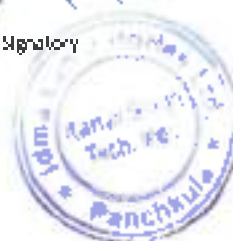
CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results						Specifications	Methods
			10-8 hrs	8-16 hrs	16-24 hrs	10-8 hrs	8-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m ³	0.46	0.52	0.47	0.48	0.5	0.47	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	19.3	19.6	19.8	19.5	19.3	19	Max.180	IS:5182(Part-9)

Reviewed by
10/04/26



Authorized Signatory
10/04/26



Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LAIKOTHIWSTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	10AHG HARI /LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch.
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/86/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No	Parameters	Unit	Mandapura Village		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-016	03326N-E-011		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.6	73.1	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.8	31	Max.60	IDL/SP/03.ISSUENO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	15.99	16.29	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	17.63	17.83	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	$\mu\text{g}/\text{m}^3$	125.7	124.7	.	IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	124	122.9	.	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results						Specifications	Methods
			10-8 hrs	8-16 hrs	16-24 hrs	10-8 hrs	8-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m^3	0.48	0.54	0.43	0.5	0.53	0.51	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	10.62	19.92	20.12	19.62	19.52	19.32	Max.180	IS:5182(Part-9)

10/04/26
Authorized Signatory



10/04/26
Authorized Signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	MPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LAIKOTHIWSTAR, IYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANP.HHRL/LQA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Sr. No.	Parameters	Unit	Champa Devi Village		Specifications	Methods
---	Date of Sampling	----	03.1.2026	08.1.2026		
---	Sample Code	----	06126N-E-011	10126N-E-006		
1	Particulate Matter (PM ₁₀)	µg/m ³	72.8	73.5	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM _{2.5})	µg/m ³	30.91	30.11	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.44	16.74	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	20.07	20.37	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	126.7	130	...	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	1.1	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	124.6	127.3	.	IS:5182(Part-13)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.52	0.58	0.53	0.54	0.60	0.55	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	ug/m ³	20.6	20.9	21.1	20.9	20.7	20.4	Max.120	IS:5182(Part-9)



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LAKHOTIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LOANo.HRBL/LOA/2023/31
Type of Sample	Ambient Air
Pack ng. Markings	Filter Paper packed in Polythene Pouch
Mode of collection of sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Panchkula Results

Panchajanya Results										
Sr. No.	Parameters	Unit	Champa Beri Village		Specifications	Methods				
....	Date of Sampling	...	30.2.2026	26.2.2026						
.....	Sample Code	.....	12226N-E-013	28226N-E-012						
1	Particulate Matter (PM ₁₀)	µg/m ³	73.4	74.1	Max.100	IS:5182(Part-23)				
2	Particulate Matter (PM _{2.5})	µg/m ³	31.21	30.41	Max.60	IDL/SP/03/ISSUENO-1				
3	Sulphur Dioxide (SO ₂)	µg/m ³	16.64	16.94	Max.80	IS:5182(Part-2)				
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19.87	20.17	Max.80	IS:5182(Part-5)				
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	129.9	128.3	...	IS:5182(Part-7/8)				
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)				
7	VOCs	µg/m ³	127.3	125.5	...	IS:5182(Part-11)				
CHEMICAL TEST NG (Ambient Air) 8 hourly										
S.No	TestParameters	Units	Results						Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.55	0.61	0.56	0.57	0.59	0.56	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	20.4	20.7	20.9	20.7	20.5	20.2	Max.180	IS:5182(Part-9)

Signature
Reference No.



Authorised Signature



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD, TELBHAWAN, SANKARMARG, LAIKOTHIWISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No	LOANo.HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/36/2017-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Champa Beri Village		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-017	03326N-E-012		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	73.8	74.5	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	31.41	30.61	Max.60	IDL/SP/03/ISSUE NO-1
3	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	16.34	17.24	Max.80	IS:5182(Part-2)
4	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	10.07	20.27	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)NMHC	$\mu\text{g}/\text{m}^3$	129.3	128.3		IS:5182(Part-21)
6	Benzene as C_6H_6	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	128.2	126.5		IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 Hourly

S.No	TestParameters	Units	Results						Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.57	0.63	0.58	0.59	0.62	0.6	Max.4	IS:5182(Part-10)
9	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	20.7	21.02	21.22	21	20.62	20.52	Max.180	IS:5182(Part-9)

Reviewed by



Authorized Signatory



Idma Laboratories Limited

Idma Corporate Park,

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Pachkula - 134113.

Haryana (India)

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, LALKOTHVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANO HRRL/LOA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQS/36/2012-13
Testing Protocol	NAAQS and CPCB

Particulate Results

Sr. No.	Parameters	Unit	Akaril Village		Specifications	Methods
...	Date of Sampling	....	08.1.2026	08.1.2026		
..	Sample Code	....	06126N-E-012	10126N-E-007		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	69.3	68.7	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	27.8	27	Max.60	DL/SP/03.ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	18.12	18.42	Max.80	IS:5182(Part-7)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	19.25	19.35	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane) (NMHC)	$\mu\text{g}/\text{m}^3$	120.7	124.9	...	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	$\mu\text{g}/\text{m}^3$	<1.0	1.12	Max.5	IS:5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	118.6	122.2	.	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	TestParameters	Units	Results			Specifications	Methods
			10-8 hrs	18-16 hrs	16-24 hrs		
8	Carbon Monoxide (CO)	mg/m^3	0.41	0.47	0.42	Max.4	IS 5182(Part-10)
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	20.2	20.5	20.7	Max.180	IS:5182(Part-9)

Reviewed by



Authorized Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

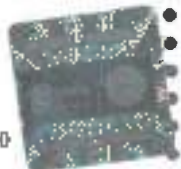
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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARBAG, LAIKOTHIWISTAR, FYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANO-HRRL/LDA/2023/31
Type of Sample	Ambient Air
Packing/Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQM/5/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachpadra Results

Sr. No.	Parameters	Unit	Akashi Village		Specifications	Methods
---	Date of Sampling	---	10.2.2023	26.2.2023		
---	Sample Code	---	12226N-E-014	28226N-E-033		
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	68.9	69.3	Max 100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	28.1	27.4	Max.60	IDL/SP/03,ISSUENO-1
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	18.32	18.62	Max 60	IS:5182(Part- 2)
4	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	18.85	19.15	Max.80	IS 5182(Part-6)
5	HC (Methane & Non Methane)/NMHC	$\mu\text{g}/\text{m}^3$	123.9	123.2	...	IS:5182(Part-21)
6	Benzene asC ₆ H ₆	$\mu\text{g}/\text{m}^3$	<1.0	<1.0	Max.5	IS 5182(Part-11)
7	VOCs	$\mu\text{g}/\text{m}^3$	121.3	120.4	...	IS 5182(Part-11)

CHEMICALS: 18411NGI (Ambient Air) 8 hour/24

S.No	TestParameters	Units	Results			Results			Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m^3	0.44	0.5	0.45	0.47	0.40	0.46	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	20	20.3	20.5	20.2	20	19.7	Max.180	IS:5182(Part- 9)



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL-RAJASTHAN REFINERY LTD TELBHAWAN, SAKHARMARG, LAUKOTHIVISTAR, JYOTI NAGAR, JAIPUR-302005, RAJASTHAN, INDIA.
Work Order No.	LDANO.HRRI/LOA/2023/31
Type of Sample	Ambient Air
Packing, Markings	Filter Paper packed in Polythene Pouch
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	NAAQMS/36/2012-13
Testing Protocol	NAAQS and CPCB

Pachwada Results

Sr. No.	Parameters	Unit	Akarli Village		Specifications	Methods
.....	Date of Sampling	.....	02.3.2026	31.3.2026		
.....	Sample Code	.....	04326N-E-018	03326N-E-013		
1	Particulate Matter (PM10)	µg/m ³	60.3	69.7	Max.100	IS:5182(Part-23)
2	Particulate Matter (PM2.5)	µg/m ³	28.9	27.5	Max.50	IS:5182(Part-23)
3	Sulphur Dioxide (SO ₂)	µg/m ³	18.62	18.92	Max.80	IS:5182(Part-21)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	19.05	19.25	Max.80	IS:5182(Part-6)
5	HC (Methane & Non Methane)(NMHC)	µg/m ³	123.9	123.2	...	IS:5182(Part-21)
6	Benzene as C ₆ H ₆	µg/m ³	<1.0	<1.0	Max.5	IS:5182(Part-11)
7	VOCs	µg/m ³	122.2	121.4	...	IS:5182(Part-11)

CHEMICAL TESTING (Ambient Air) 8 hourly

S.No	Test Parameters	Units	Results						Specifications	Methods
			(0-8 hrs)	(8-16 hrs)	(16-24 hrs)	(0-8 hrs)	(8-16 hrs)	(16-24 hrs)		
8	Carbon Monoxide (CO)	mg/m ³	0.46	0.52	0.47	0.49	0.52	0.5	Max.4	IS:5182(Part-10)
9	Ozone (O ₃)	µg/m ³	20.32	20.62	20.82	20.5	20.32	20.02	Max.180	IS:5182(Part-9)

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Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 8064827 - 8064830

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Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRR/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Pachpadra Village					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	50.6	50.8	51	51.2	50.9	50.6
7:00-8:00	51.9	52.4	52.9	53.4	53.2	53
8:00-9:00	52.2	52.5	52.8	53.1	53	52.9
9:00-10:00	52.5	53	53.5	54	53.8	53.6
10:00-11:00	51.7	51.8	51.9	52	51.9	51.8
11:00-12:00	52.6	52.8	53	53.2	53	52.8
12:00-13:00	53	53.5	54	54.5	54.3	54.1
13:00-14:00	53.2	53.5	53.8	54.1	54	53.9
14:00-15:00	52.3	52.8	53.3	53.8	53.6	53.4
15:00-16:00	52.6	52.7	52.8	52.9	52.8	52.7
16:00-17:00	52.7	52.9	53.1	53.3	53.1	52.9
17:00-18:00	54.2	54.7	55.2	55.7	55.6	55.5
18:00-19:00	54	54.3	54.6	54.9	54.8	54.7
19:00-20:00	53.4	53.9	54.4	54.9	54.7	54.5
20:00-21:00	52.8	52.9	53	53.1	53	52.9
21:00-22:00	51.2	51.4	51.6	51.8	51.7	51.6
22:00-23:00	35.7	36.2	36.7	37.2	37.1	37
23:00-24:00	34	34.3	34.6	34.9	34.7	34.5
24:00-1:00	33.1	33.6	34.1	34.6	34.5	34.4
1:00-2:00	32.4	32.6	32.8	33	32.9	32.8
2:00-3:00	32.8	33.3	33.8	34.3	34.1	33.9
3:00-4:00	33.4	33.7	34	34.3	34.2	34.1
4:00-5:00	33.2	33.7	34.2	34.7	34.4	34.1
5:00-6:00	35.1	35.6	36.1	36.6	36.4	36.2
LeqDay	52.6	52.9	53.2	53.5	53.3	53.2
LeqNight	33.7	34.1	34.5	35.0	34.8	34.6
LDN	46.3	46.6	47.0	47.3	47.2	47.0

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HPRL/IOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Sajiyall Village					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	52.7	52.9	53.1	53.3	53	52.7
7:00-8:00	55	55.5	56	56.5	56.3	56.1
8:00-9:00	54.1	54.4	54.7	55	54.9	54.8
9:00-10:00	55.9	56.4	56.9	57.4	57.2	57
10:00-11:00	53.7	53.8	53.9	54	53.9	53.8
11:00-12:00	53.6	53.8	54	54.2	54	53.8
12:00-13:00	55.5	56	56.5	57	56.8	56.6
13:00-14:00	55.3	55.6	55.9	56.2	56.1	56
14:00-15:00	56	56.5	57	57.5	57.3	57.1
15:00-16:00	51.4	51.5	51.6	51.7	51.6	51.5
16:00-17:00	53.5	53.7	53.9	54.1	53.9	53.7
17:00-18:00	55.8	56.3	56.8	57.3	57.2	57.1
18:00-19:00	54.5	54.8	55.1	55.4	55.3	55.2
19:00-20:00	56.1	56.6	57.1	57.6	57.4	57.2
20:00-21:00	54.3	54.4	54.5	54.6	54.5	54.4
21:00-22:00	53	53.2	53.4	53.6	53.5	53.4
22:00-23:00	37.9	38.4	38.9	39.4	39.3	39.2
23:00-24:00	35.7	36	36.3	36.6	36.4	36.2
24:00-1:00	36	36.5	37	37.5	37.4	37.3
1:00-2:00	33	33.2	33.4	33.6	33.5	33.4
2:00-3:00	35.7	36.2	36.7	37.2	37	36.8
3:00-4:00	35.4	35.7	36	36.3	36.2	36.1
4:00-5:00	35.7	36.2	36.7	37.2	36.9	36.6
5:00-6:00	36.5	37	37.5	38	37.8	37.6
LeqDay	54.4	54.7	55.0	55.3	55.2	55.0
LeqNight	35.7	36.2	36.6	37.0	36.8	36.7
LDN	48.2	48.5	48.9	49.2	49.1	48.9

Note: All values in db(A)

Reviewed by
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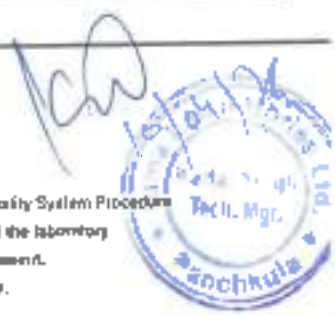
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No	LOA No. HRR/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Kiyar Village					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	52	52.2	52.4	52.6	52.3	52
7:00-8:00	54	54.5	55	55.5	55.3	55.1
8:00-9:00	53.5	53.8	54.1	54.4	54.3	54.2
9:00-10:00	54.9	55.4	55.9	56.4	56.2	56
10:00-11:00	53.5	53.6	53.7	53.8	53.7	53.6
11:00-12:00	53.2	53.4	53.6	53.8	53.6	53.4
12:00-13:00	54.5	55	55.5	56	55.8	55.6
13:00-14:00	54.2	54.5	54.8	55.1	55	54.9
14:00-15:00	55	55.5	56	56.5	56.3	56.1
15:00-16:00	51.2	51.3	51.4	51.5	51.4	51.3
16:00-17:00	53.1	53.3	53.5	53.7	53.5	53.3
17:00-18:00	54.4	54.9	55.4	55.9	55.8	55.7
18:00-19:00	53.9	54.2	54.5	54.8	54.7	54.6
19:00-20:00	55.1	55.6	56.1	56.6	56.4	56.2
20:00-21:00	54.1	54.2	54.3	54.4	54.3	54.2
21:00-22:00	52.6	52.8	53	53.2	53.1	53
22:00-23:00	35.9	37.4	37.9	38.4	38.3	38.2
23:00-24:00	35.1	35.4	35.7	36	35.8	35.6
24:00-1:00	35	35.5	36	36.5	36.4	36.3
1:00-2:00	32.6	32.8	33	33.2	33.1	33
2:00-3:00	34.7	35.2	35.7	36.2	36	35.8
3:00-4:00	34.8	35.1	35.4	35.7	35.6	35.5
4:00-5:00	34.2	34.7	35.2	35.7	35.4	35.1
5:00-6:00	35.3	35.8	36.3	36.8	36.6	36.4
LeqDay	53.8	54.0	54.3	54.6	54.5	54.3
LeqNight	34.9	35.2	35.7	36.1	35.9	35.7
LDN	47.5	47.8	48.1	48.4	48.3	48.1

Note: All values in dB(A)

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTH/VISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Akarli Village					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	52.1	52.3	52.5	52.7	52.4	52.1
7:00-8:00	54.3	54.8	55.3	55.8	55.6	55.4
8:00-9:00	53.2	53.5	53.8	54.1	54	53.9
9:00-10:00	55.1	55.6	56.1	56.6	56.4	56.2
10:00-11:00	53.2	53.3	53.4	53.5	53.4	53.3
11:00-12:00	53.4	53.6	53.8	54	53.8	53.6
12:00-13:00	55.1	55.6	56.1	56.6	56.4	56.2
13:00-14:00	55.2	55.5	55.8	56.1	56	55.9
14:00-15:00	54.8	55.3	55.8	56.3	56.1	55.9
15:00-16:00	51.3	51.4	51.5	51.6	51.5	51.4
16:00-17:00	53.1	53.3	53.5	53.7	53.5	53.3
17:00-18:00	55.3	55.8	56.3	56.8	56.7	56.6
18:00-19:00	54.2	54.5	54.8	55.1	55	54.9
19:00-20:00	55.6	56.1	56.6	57.1	56.9	56.7
20:00-21:00	53.9	54	54.1	54.2	54.1	54
21:00-22:00	52.6	52.8	53	53.2	53.1	53
22:00-23:00	36.5	37	37.5	38	37.9	37.8
23:00-24:00	35.2	35.5	35.8	36.1	35.9	35.7
24:00-1:00	35.8	35.8	36.3	36.8	36.7	36.6
1:00-2:00	32.4	32.6	32.8	33	32.9	32.8
2:00-3:00	35	35.5	36	36.5	36.3	36.1
3:00-4:00	35.2	35.5	35.8	36.1	36	35.9
4:00-5:00	35	35.5	36	36.5	36.7	35.9
5:00-6:00	35.6	36.1	36.6	37.1	36.9	36.7
Leq Day	53.9	54.2	54.5	54.8	54.7	54.5
Leq Night	35.0	35.4	35.9	36.3	36.1	35.9
LDN	47.6	48.0	48.3	48.6	48.5	48.3

Note: All values in db(A)

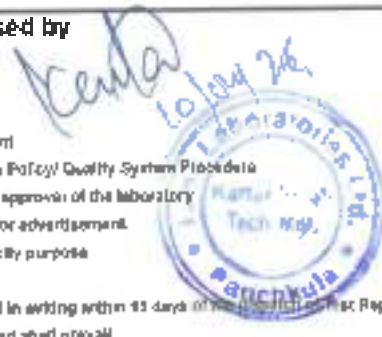
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Sambhra Village					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	53	53.2	53.4	53.6	53.3	53
7:00-8:00	55.4	55.9	56.4	56.9	56.7	56.5
8:00-9:00	53.8	54.1	54.4	54.7	54.6	54.5
9:00-10:00	53.5	54	54.5	55	54.8	54.6
10:00-11:00	53.6	53.7	53.8	53.9	53.8	53.7
11:00-12:00	54.2	54.4	54.6	54.8	54.6	54.4
12:00-13:00	57	57.5	58	58.5	58.3	58.1
13:00-14:00	57	57.3	57.6	57.9	57.8	57.7
14:00-15:00	57.8	58.3	58.8	59.3	59.1	58.9
15:00-16:00	51.7	51.8	51.9	52	51.9	51.8
16:00-17:00	53.2	53.4	53.6	53.8	53.6	53.4
17:00-18:00	58.1	58.6	59.1	59.6	59.5	59.4
18:00-19:00	55.8	56.1	56.4	56.7	56.6	56.5
19:00-20:00	55.4	55.9	56.4	56.9	56.7	56.5
20:00-21:00	54.6	54.7	54.8	54.9	54.8	54.7
21:00-22:00	53.6	53.8	54	54.2	54.1	54
22:00-23:00	39.9	40.4	40.9	41.4	41.3	41.2
23:00-24:00	36.8	37.1	37.4	37.7	37.5	37.3
24:00-1:00	37.8	38.3	38.8	39.3	39.2	39.1
1:00-2:00	33.3	33.5	33.7	33.9	33.8	33.7
2:00-3:00	37.1	37.6	38.1	38.6	38.4	38.2
3:00-4:00	36.4	36.7	37	37.3	37.2	37.1
4:00-5:00	37.1	37.6	38.1	38.6	38.3	38
5:00-6:00	36.4	36.9	37.4	37.9	37.7	37.5
Leq Day	54.9	55.2	55.5	55.8	55.6	55.5
Leq Night	36.9	37.3	37.7	38.1	37.9	37.8
LDN	48.9	49.2	49.5	49.9	49.7	49.6

Note: All values in db(A)

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Godara Ki Dhanl					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	51.7	51.9	52.1	52.3	52	51.7
7:00-8:00	51.3	51.8	52.3	52.8	52.6	52.4
8:00-9:00	53.8	54.1	54.4	54.7	54.6	54.5
9:00-10:00	54.1	54.6	55.1	55.6	55.4	55.2
10:00-11:00	52.5	52.6	52.7	52.8	52.7	52.6
11:00-12:00	52.7	52.9	53.1	53.3	53.1	52.9
12:00-13:00	53.5	54	54.5	55	54.8	54.6
13:00-14:00	53.4	53.7	54	54.3	54.2	54.1
14:00-15:00	54.2	54.7	55.2	55.7	55.5	55.3
15:00-16:00	52.6	52.7	52.8	52.9	52.8	52.7
16:00-17:00	52.9	53.1	53.3	53.5	53.3	53.1
17:00-18:00	53.7	54.1	54.7	55.2	55.1	55
18:00-19:00	52.3	52.6	52.9	53.2	53.1	53
19:00-20:00	53.1	53.6	54.1	54.6	54.4	54.2
20:00-21:00	52.2	52.3	52.4	52.5	52.4	52.3
21:00-22:00	52.6	52.8	53	53.2	53.1	53
22:00-23:00	36	36.5	37	37.5	37.4	37.3
23:00-24:00	34.8	35.1	35.4	35.7	35.5	35.3
24:00-1:00	34.6	35.1	35.6	36.1	36	35.9
1:00-2:00	33.1	33.3	33.5	33.7	33.6	33.5
2:00-3:00	34.2	34.7	35.2	35.7	35.5	35.3
3:00-4:00	33.2	33.5	33.8	34.1	34	33.9
4:00-5:00	33.6	34.1	34.6	35.1	34.8	34.5
5:00-6:00	34.6	35.1	35.6	36.1	35.9	35.7
Leq Day	52.9	53.2	53.5	53.9	53.7	53.5
Leq Night	34.3	34.7	35.1	35.5	35.3	35.2
L _{DN}	46.7	47.0	47.4	47.7	47.6	47.4

Note: All values in db(A)

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827 - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Near Project site Refinery					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	52.2	52.4	52.6	52.8	52.5	52.2
7:00-8:00	52	52.5	53	53.5	53.3	53.1
8:00-9:00	54.3	54.6	54.9	55.2	55.1	55
9:00-10:00	55	55.5	56	56.5	56.3	56.1
10:00-11:00	52.4	52.5	52.6	52.7	52.6	52.5
11:00-12:00	53.1	53.3	53.5	53.7	53.5	53.3
12:00-13:00	54.2	54.7	55.2	55.7	55.5	55.3
13:00-14:00	53.9	54.2	54.5	54.8	54.7	54.6
14:00-15:00	55.4	55.9	56.4	56.9	56.7	56.5
15:00-16:00	52.6	52.7	52.8	52.9	52.8	52.7
16:00-17:00	51.8	52	52.2	52.4	52.2	52
17:00-18:00	55.2	55.7	56.2	56.7	56.6	56.5
18:00-19:00	53.1	53.4	53.7	54	53.9	53.8
19:00-20:00	54.2	54.7	55.2	55.7	55.5	55.3
20:00-21:00	52.1	52.2	52.3	52.4	52.3	52.2
21:00-22:00	53.1	53.3	53.5	53.7	53.6	53.5
22:00-23:00	36.8	37.3	37.8	38.3	38.2	38.1
23:00-24:00	35.4	35.7	36	36.3	36.1	35.9
24:00-1:00	35.2	35.7	36.2	36.7	36.6	36.5
1:00-2:00	33	33.2	33.4	33.6	33.5	33.4
2:00-3:00	35.1	35.6	36.1	36.6	36.4	36.2
3:00-4:00	33.4	33.7	34	34.3	34.2	34.1
4:00-5:00	34.2	34.7	35.2	35.7	35.4	35.1
5:00-6:00	33.9	34.4	34.9	35.4	35.2	35
LeqDay	53.4	53.7	54.0	54.4	54.2	54.0
LeqNight	34.6	35.0	35.5	35.9	35.7	35.5
L _{90N}	47.2	47.5	47.8	48.2	48.0	47.9

Note: All values in db(A)

Idma Laboratories Limited
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Authorised by

Kanta
10/04/26
Tech. Mgr.



Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Near Project site Township					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	50.6	50.8	51	51.2	50.9	50.6
7:00-8:00	51.4	51.9	52.4	52.9	52.7	52.5
8:00-9:00	52	52.3	52.6	52.9	52.8	52.7
9:00-10:00	53.6	54.1	54.6	55.1	54.9	54.7
10:00-11:00	52.4	52.5	52.6	52.7	52.6	52.5
11:00-12:00	52.5	52.7	52.9	53.1	52.9	52.7
12:00-13:00	53.2	53.7	54.2	54.7	54.5	54.3
13:00-14:00	53.8	54.1	54.4	54.7	54.6	54.5
14:00-15:00	53.6	54.1	54.6	55.1	54.9	54.7
15:00-16:00	53	53.1	53.2	53.3	53.2	53.1
16:00-17:00	52.8	53	53.2	53.4	53.2	53
17:00-18:00	52.4	52.9	53.4	53.9	53.8	53.7
18:00-19:00	53.2	53.5	53.8	54.1	54	53.9
19:00-20:00	54.4	54.9	55.4	55.9	55.7	55.5
20:00-21:00	54.8	54.9	55	55.1	55	54.9
21:00-22:00	54.1	54.3	54.5	54.7	54.6	54.5
22:00-23:00	35.2	35.7	36.2	36.7	36.6	36.5
23:00-24:00	32.6	32.9	33.2	33.5	33.3	33.1
24:00-1:00	34.5	35	35.5	36	35.9	35.8
1:00-2:00	33.2	33.4	33.6	33.8	33.7	33.6
2:00-3:00	33.3	33.8	34.3	34.8	34.6	34.4
3:00-4:00	33.6	33.9	34.2	34.5	34.4	34.3
4:00-5:00	33.5	34	34.5	35	34.7	34.4
5:00-6:00	34.8	35.3	35.8	36.3	36.1	35.9
LeqDay	53.0	53.3	53.6	53.9	53.8	53.6
LeqNight	33.8	34.3	34.7	35.1	34.9	34.8
L ₉₀	46.6	47.0	47.3	47.6	47.5	47.3

Note: All values in db(A)

Reviewed by:  10/04/26

Disclaimer :

Authorised by:  10/04/26

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Dewal Ki Dhani					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	50.4	50.6	50.8	51	50.7	50.4
7:00-8:00	52.2	52.7	53.2	53.7	53.5	53.3
8:00-9:00	52.1	52.4	52.7	53	52.9	52.8
9:00-10:00	53.8	54.3	54.8	55.3	55.1	54.9
10:00-11:00	52.6	52.7	52.8	52.9	52.8	52.7
11:00-12:00	52.3	52.5	52.7	52.9	52.7	52.5
12:00-13:00	53.9	54.4	54.9	55.4	55.2	55
13:00-14:00	54.2	54.5	54.8	55.1	55	54.9
14:00-15:00	53.8	54.3	54.8	55.3	55.1	54.9
15:00-16:00	52.1	52.2	52.3	52.4	52.3	52.2
16:00-17:00	52.8	53	53.2	53.4	53.2	53
17:00-18:00	53.4	53.9	54.4	54.9	54.8	54.7
18:00-19:00	53.8	54.1	54.4	54.7	54.6	54.5
19:00-20:00	55.4	55.9	56.4	56.9	56.7	56.5
20:00-21:00	54.6	54.7	54.8	54.9	54.8	54.7
21:00-22:00	53.9	54.1	54.3	54.5	54.4	54.3
22:00-23:00	35.8	36.3	36.8	37.3	37.2	37.1
23:00-24:00	33.3	33.6	33.9	34.2	34	33.8
24:00-1:00	34.9	35.4	35.9	36.4	36.3	36.2
1:00-2:00	33.8	34	34.2	34.4	34.3	34.2
2:00-3:00	34.2	34.7	35.2	35.7	35.5	35.3
3:00-4:00	33.8	34.1	34.4	34.7	34.6	34.5
4:00-5:00	33.5	34	34.5	35	34.7	34.4
5:00-6:00	34.1	34.6	35.1	35.6	35.4	35.2
Leq Day	53.2	53.5	53.8	54.1	54.0	53.8
Leq Night	34.2	34.6	35.0	35.4	35.3	35.1
L ₉₀	46.9	47.2	47.6	47.9	47.7	47.6

Note: All values in db(A)

Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134112,

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Tel No. 0172 - 5064827 - 5064832

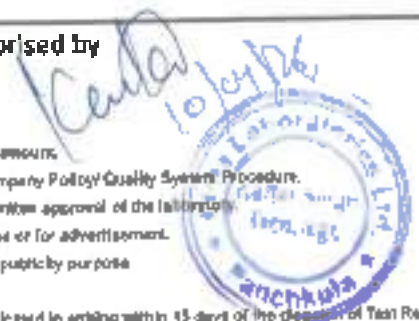
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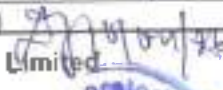
Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN,SAHKAR MARG,LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005,RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	AMBIENT NOISE
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	CPCB MANUAL
Testing Protocol	CPCB MANUAL

Location	Refinery & Township Junction Point					
Date	03.1.2026	31.1.2026	10.2.2026	24.2.2026	05.3.2026	19.3.2026
6:00-7:00	50.8	51	51.2	51.4	51.1	50.8
7:00-8:00	51.4	51.9	52.4	52.9	52.7	52.5
8:00-9:00	52.5	52.8	53.1	53.4	53.3	53.2
9:00-10:00	52	52.5	53	53.5	53.3	53.1
10:00-11:00	52.6	52.7	52.8	52.9	52.8	52.7
11:00-12:00	52.9	53.1	53.3	53.5	53.3	53.1
12:00-13:00	54	54.5	55	55.5	55.3	55.1
13:00-14:00	53.6	53.9	54.2	54.5	54.4	54.3
14:00-15:00	55.6	56.1	56.6	57.1	56.9	56.7
15:00-16:00	54.7	54.8	54.9	55	54.9	54.8
16:00-17:00	54	54.2	54.4	54.6	54.4	54.2
17:00-18:00	54.5	55	55.5	56	55.9	55.8
18:00-19:00	53.3	53.6	53.9	54.2	54.1	54
19:00-20:00	54.4	54.9	55.4	55.9	55.7	55.5
20:00-21:00	52.6	52.7	52.8	52.9	52.8	52.7
21:00-22:00	52.5	52.7	52.9	53.1	53	52.9
22:00-23:00	34.9	35.4	35.9	36.4	36.3	36.2
23:00-24:00	32.8	33.1	33.4	33.7	33.5	33.3
24:00-1:00	34.5	35	35.5	36	35.9	35.8
1:00-2:00	32.2	32.4	32.6	32.8	32.7	32.6
2:00-3:00	33.9	34.4	34.9	35.4	35.2	35
3:00-4:00	33	33.3	33.6	33.9	33.8	33.7
4:00-5:00	34.1	34.6	35.1	35.6	35.3	35
5:00-6:00	35.8	36.3	36.8	37.3	37.1	36.9
LeqDay	53.2	53.5	53.8	54.2	54.0	53.8
LeqNight	33.9	34.3	34.7	35.1	35.0	34.8
L ₉₀	46.8	47.1	47.5	47.8	47.7	47.5

Note: All values in db(A)

Reviewed by:  27/09/26

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKAR MARG, LAIKOTHI VISTAR, JYOTINAGAR, JAIPUR 302005, RAJASTHAN, INDIA
Work Order No.	LDA No. HRRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of Collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APR-24th Edition 2023
Testing Protocol	IS:10500:2012

		Panchgauri Results				Testing Method
S.No.	Test Parameters	Units	Akarli Village				Limits
...	Date of Sampling	.....	13.1.2026	17.2.2026	18.3.2026	...
....	Sample Code	...	15126M-E-001	18226N-E-008	20326N-E-008	....
1	pH	...	7.69	7.48	7.8	6.5-8.5 IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5 IS:3025(Part-10)
3	Temperature	°C	23.4	23.6	24.1	... IS:3025(Part-9)
4	Colour	Hazen	28.5	26	30.5	5/15 IS:3025(Part-4)
5	Odour	..	Agreeable	Agreeable	Agreeable	Agreeable IS:3025(Part-05)
6	Taste	..	Agreeable	Agreeable	Agreeable	Agreeable IS:3025(Part-08)
7	Salinity	psf	13.0	19.8	14.9	APR-25-200-24th Edition 2023
8	Total Suspended Solid	mg/L	25	27	31	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	10878	11593	12494	500/2000 IS:3025(Part-16)
10	Total Alkalinity	mg/L	510	538	532	200/600 IS:3025(Part-23)
11	Total Hardness	mg/L	442.6	457.0	462.8	200/400 IS:3025(Part-21)
12	Ca Hardness	mg/L	275.5	279.7	286.5	... IS:3025(Part-24)
13	Mg Hardness	mg/L	162.5	173.4	170.4	40/100 IS:3025(Part-17)
14	Chlorides	mg/L	5485	5520	5521	250/1000 IS:3025(Part-32)
15	Fluorides	mg/L	0.81	0.97	0.9	1/1.5 APHA4500D24th Edition 2023
16	Copper	mg/L	<0.01	<0.04	<0.04	0.05/1.5 IS:3025(Part-42)
17	Sulphates	mg/L	760.5	765.3	772.1	200/400 IS:3025(Part-24)
18	Sodium	mg/L	6015.2	6032.8	6054.1	... IS:3025(Part-45)
19	Iron	mg/L	<0.1	<0.1	<0.1	1 IS:3025(Part-53)
20	Potassium	mg/L	1604.8	1611.1	1619.2	... IS:3025(Part-45)
21	Nitrates	mg/L	41.2	42.5	41.6	45 IS:3025(Part-39)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.5 APHA3125B24th Edition 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15 IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.07 IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003 IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05 IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01 IS:3025(Part-47)
28	Total Phosphate	mg/L	0.88	0.96	1.05	... IS:3025(Part-31)
29	DO	mg/L	8.2	8	7.6	... IS:3025(Part-58)
30	COD	mg/L	54	58	56	... IS:3025(Part-58)
31	BOD	mg/L	15.9	17.4	18.5	... IS:3025(Part-44)
32	Total Nitrogen	mg/L	93.6	127.5	152.8	... IS:3025(Part-39)
33	Total Phosphorus	mg/L	<1	<1	<1	... IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	25	28	32	Shall not be Detectable IS:1622-1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable IS:1622-1981

Note: *As per IS:10500:2012 (Desirable/Permissible)

Reviewed by

Authorized

Idma Laboratories Limited

Idma Corporate Office

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Haryana (India)

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Idma Laboratories Limited

TEST REPORT

Customer	WOL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHAKARMARG, LAKHOTIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No	LUA No. HRRL/L04/2023/11
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS: 4243:2012
Testing Protocol	IS: 15400:2012

S.No.	Test Parameters	Units	पंचकुला Results Maghwas ki Dhoni			Limits	Testing Method
			13.1.2026	17.2.2026	18.3.2026		
.....	Date of Sampling	.....	13.1.2026	17.2.2026	18.3.2026	.....	.....
.....	Sample Code	.....	15126N-E-002	18226N-E-009	20326N-E-009	.....	.....
1	pH	..	7.77	7.98	8.3	6.5-8.5	IS: 3025 (Part-11)
2	Turbidity	NTU	448	458	466	1/5	IS: 3025 (Part-10)
3	Temperature	°C	23.3	23.5	24	..	IS: 3025 (Part-9)
4	Colour	HzPt	54.5	32	36.5	5/15	IS: 3025 (Part-1)
5	Odour	..	Agreeable	Agreeable	Agreeable	Agreeable	IS: 3025 (Part-05)
6	Taste	..	Agreeable	Agreeable	Agreeable	Agreeable	IS: 3025 (Part-08)
7	Salinity	ppt	13.1	13.9	15.0	.....	APHA 25106 24th Edition, 2023
8	Total Suspended Solid	mg/L	727	729	733	..	IS: 3025 (Part-17)
9	Total Dissolved Solids	mg/L	10984	11899	12600	500/1000	IS: 3025 (Part-16)
10	Total Alkalinity	mg/L	485	453.1	507.4	100/600	IS: 3025 (Part-25)
11	Total Hardness	mg/L	448	462.4	467.2	200/600	IS: 3025 (Part-21)
12	Ca Hardness	mg/L	238.5	242.7	249.5	.....	IS: 3025 (Part-21)
13	Mg Hardness	mg/L	207.6	213.5	211.6	30/100	IS: 3025 (Part-17)
14	Chlorides	mg/L	4125	4140	4161	250/1000	IS: 3025 (Part-32)
15	Fluorides	mg/L	3.52	3.58	3.7	1/1.5	APHA 4500 D2 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS: 3025 (Part-42)
17	Sulphates	mg/L	740.8	745.6	752.4	200/800	IS: 3025 (Part-24)
18	Sodium	mg/L	6398.4	6436	6477.3	.....	IS: 3025 (Part-45)
19	Iron	mg/L	5.77	5.81	5.84	3	IS: 3025 (Part-52)
20	Potassium	mg/L	56.9	63.2	71.5	..	IS: 3025 (Part-46)
21	Nitrates	mg/L	<0.5	<0.5	<0.5	45	IS: 3025 (Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS: 3025 (Part-19)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS: 3025 (Part-54)
25	Caesium	mg/L	<0.001	<0.001	<0.001	0.003	IS: 3025 (Part-11)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS: 3025 (Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS: 3025 (Part-41)
28	Total Phosphate	mg/L	0.98	0.96	1.06	.....	IS: 3025 (Part-38)
29	NO	mg/L	3	7.8	7.4	..	IS: 3025 (Part-36)
30	COB	mg/L	60	64	77	.....	IS: 3025 (Part-44)
31	NO2	mg/L	25.5	25	26.2	..	IS: 3025 (Part-34)
32	Total Nitrogen	mg/L	1.6	2.1	2.21	..	IS: 3025 (Part-31)
33	Total Phosphorous	mg/L	<1	<1	<1	..	IS: 3025 (Part-31)
34	Total Coliforms	MPN/100ml	28	30	34	Should not be Detectable	IS: 15422:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Should not be Detectable	IS: 15422:1981

Note: *As per IS: 15400:2012 (Desirable/Permissible)

Reviewed by

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARARG, LAKHOTWISTAR, JYOTIBAGAR, JAIPUR- 302005, RAJASTHAN, INDIA
Work Order No.	UGA no. HRPL/LQA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS: 13500-2012

Panchsutra Results

S.No.	Test Parameters	Units	13.1.2026	17.2.2026	18.3.2026	Limits	Testing Method
---	Date of Sampling	---	13.1.2026	17.2.2026	18.3.2026	---	---
---	Sample Code	---	15126N-E-003	18226N-E-010	20326N-E-010	---	---
1	pH	---	7.66	7.87	8.14	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	25	35	43	1/5	IS:3025(Part-10)
3	Temperature	°C	23.2	27.4	27.9	---	IS:3025(Part-9)
4	Dissolved Oxygen	%	16.5	17.5	18.1	5/15	IS:3025(Part-4)
5	Odour	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-06)
6	Taste	---	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	gpc	12.5	13.3	14.4	---	APHA 25th Edition (Micro), 2023
8	Total Suspended Solids	mg/L	21	25	29	---	IS:3025(Part-12)
9	Total Dissolved Solids	mg/L	10461	11176	12177	500/2000	IS:3025(Part-10)
10	Total Alkalinity	mg/L	440.8	448.8	452.8	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	429.5	434.9	439.7	200/600	IS:3025(Part-21)
12	Calcium Hardness	mg/L	244.6	248.8	255.6	---	IS:3025(Part-23)
13	Mg Hardness	mg/L	171.0	180.0	178.9	30/100	IS:3025(Part-17)
14	Fluorides	mg/L	4078	4393	4114	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	2.62	2.68	2.71	1/1.5	APHA 4500 (24th Edition), 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	460.84	465.64	472.44	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6075.3	6032.7	6054	---	IS:3025(Part-45)
19	Iron	mg/L	2.93	2.97	3	1	IS:3025(Part-45)
20	Potassium	mg/L	43.2	49.5	57.6	---	IS:3025(Part-45)
21	Nitrates	mg/L	<0.5	<0.5	<0.5	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3125 (24th Edition), 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.82	0.9	0.99	---	IS:3025(Part-31)
29	DO	mg/L	8.1	7.9	7.8	---	IS:3025(Part-38)
30	COB	mg/L	52	56	60	---	IS:3025(Part-58)
31	BOD	mg/L	17.7	19.2	20.4	---	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.2	3.52	3.71	---	IS:3025(Part-34)
33	Total Phosphorus	mg/L	<1	<1	<1	---	IS:3025(Part-35)
35	Heavy Metals	ppm/L (mg/L)	Absent	Absent	Absent	Shall not be Detectable	IS:1822:1991

Note: *As per IS:13500:2012 (Desirable/Permissible)

Reviewed by:

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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARIMARG, LAUKOTHIWSTAR, KOTHRAGALI, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	IDMA No. HRP1/LQA/2023/31
Type of sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 21th Edition 2013
Testing Protocol	IS:10500:2012

Particulars Results

S.No.	Test Parameters	Units	Sajyali Village			Limits	Testing Method
....	Date of Sampling	....	13.1.2026	17.2.2026	19.3.2026	....	
....	Sample Code	....	151264-E-004	182264-E-011	203264-E-011	....	
1	pH	....	7.64	7.63	7.95	6.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	L/S	IS:3025(Part-10)
3	Temperature	°C	24.5	23.7	24.2	.	IS:3025(Part-9)
4	Colour	PCU/cm	36.8	39.3	43.8	5/L5	IS:3025(Part-4)
5	Odour	....	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	....	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-06)
7	Salinity	ppm	19.3	12.9	15.0	....	APHA 21st Edition 2013
8	Total Suspended Solids	mg/L	21	23	27	.	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	10984	11099	12000	500/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	495	503	517	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	446.4	460.6	465.6	200/600	IS:3025(Part-21)
12	Ca Hardness	mg/L	276.2	283.4	287.2	....	IS:3025(Part-21)
13	Mg Hardness	mg/L	165.4	175.3	173.4	10/100	IS:3025(Part-17)
14	Chlorides	mg/L	5232	5247	5268	250/1000	IS:3025(Part-42)
15	Fluorides	mg/L	4.15	4.21	4.24	1/1.5	APHA 21st Edition 2013
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	752.46	757.26	764.06	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6294.8	6312.4	6333.7	....	IS:3025(Part-45)
19	Iron	mg/L	428.54	428.58	428.61	1	IS:3025(Part-53)
20	Potassium	mg/L	1512.63	1518.95	1517.02	....	IS:3025(Part-45)
21	Nitrates	mg/L	2.8	4.1	5.4	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 21st Edition 2013
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.54	1.02	1.18	....	IS:3025(Part-37)
29	DO	mg/L	8	7.8	7.4	..	IS:3025(Part-38)
30	COI	mg/L	57	56	64	....	IS:3025(Part-58)
31	BOD	mg/L	18.5	20	21.2	....	IS:3025(Part-44)
32	Total Nitrogen	mg/L	5.8	6.0	6.0	....	IS:3025(Part-34)
33	Total Phosphorus	mg/L	<1	<1	<1	....	IS:3025(Part-41)
34	Total Coliforms	MPN/100ml	22	24	28	Shall not be Detectable	IS:1622-1991
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622-1991

Note: *As per IS:10500:2012 (Desirable/Permissible)

Reviewed by: *[Signature]* 10/04/26

Author sent by: *[Signature]* 10/04/26

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Idma Laboratories Limited

TEST REPORT

Customer	MPCL RAJASTHAN REFINERY LTD. TELEHAWAN, SAHKARMARG, LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRL/LOA/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	IS:10500:2012

S.No.	Test Parameters	Units	Pachpadra Results Pachpadra Village			Limits	Testing Method
			13.1.2026	17.2.2026	18.3.2026		
....	Date of Sampling	....	13.1.2026	17.2.2026	18.3.2026	....	....
....	Sample Code	....	15126N-E-005	10226N-E-012	20326N-E-012	....	....
1	pH	..	7.85	8.07	8.19	5.5-8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	23.6	23.8	24.3	.	IS:3025(Part-9)
4	Colour	Hazen	36.8	41.3	45.8	5/15	IS:3025(Part-4)
5	Odour	.	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	...	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Sulfate	ppm	17.2	14.0	15.1	....	APHA 25th Edition 2023
8	Total Suspended Solid	mg/L	32	34	38	....	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	11056	11771	12672	5000/2000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	452.6	460.6	474.6	200/600	IS:3025(Part-23)
11	Total Hardness	mg/L	437.9	447.3	452.1	200/600	IS:3025(Part-20)
12	Ca Hardness	mg/L	250.54	254.74	261.54	..	IS:3025(Part-21)
13	Mg Hardness	mg/L	177.2	187.1	185.2	30/100	IS:3025(Part-17)
14	Chlorides	mg/L	5325	5440	5361	250/1000	IS:3025(Part-13)
15	Fluorides	mg/L	2.1	3.34	3.39	1/1.5	APHA 25th Edition 2023
16	Copper	mg/L	<0.04	<0.04	<0.34	0.05/1.5	IS:3025(Part-12)
17	Silver	mg/L	184.82	189.62	196.42	200/400	IS:3025(Part-24)
18	Sodium	mg/L	6224.5	6242.1	6265.4	....	IS:3025(Part-03)
19	Iron	mg/L	462.3	462.34	462.37	1	IS:3025(Part-53)
20	Potassium	mg/L	1524.6	1530.9	1539	....	IS:3025(Part-45)
21	Bars	mg/L	18.6	18.9	21.2	45	IS:3025(Part-34)
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	APHA 3175B24th Edition 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	5/15	IS:3025(Part-44)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.07	IS:3025(Part-54)
25	Calcium	mg/L	<0.001	<0.001	<0.001	0.003	IS:3025(Part-43)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.06	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.81	0.89	0.98	.	IS:3025(Part-31)
29	DO	mg/L	7.8	7.7	7.6	...	IS:3025(Part-38)
30	COD	mg/L	56	56	64	.	IS:3025(Part-58)
31	BOD	mg/L	16.4	17.9	19.1	....	IS:3025(Part-44)
32	Total Nitrogen	mg/L	54.8	66.0	82.3	...	IS:3025(Part-34)
33	Total Phosphorus	mg/L	<1	<1	<1	...	IS:3025(Part-34)
34	Total Coliforms	MPN/100ml	24	25	30	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: *As per IS:10500:2012 (Desirable/Permissible)

Ref: 10/04/23

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Idma Laboratories Limited

TEST REPORT

Customer	NPCIL RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARIMARG, LAIKOTHIKISTAR, JODINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRG/17-04/2023/31
Type of Sample	GROUND WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 17th Edition 2023
Testing Protocol	IS 4600:2012

S.No.	Test Parameters	Units	Panchsara Results			Limits	Testing Method
			13.1.2026	17.2.2026	18.3.2026		
.....	Date of Sampling	.....	13.1.2026	17.2.2026	18.3.2026	.....	.....
.....	Sample Code	.....	131264-C-006	18226N-E-013	20326N-E-013	.....	.....
1	pH	.....	7.78	7.99	8.11	6.5 to 8.5	IS:3025(Part-11)
2	Turbidity	NTU	<1	<1	<1	1/5	IS:3025(Part-10)
3	Temperature	°C	24.4	23.6	24.1	.....	IS:3025(Part-10)
4	Colour	Hazen	42.6	40.1	44.6	5/15	IS:3025(Part-10)
5	Odour	.....	Agreeable	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
6	Taste	.....	Agreeable	Agreeable	Agreeable	Agreeable	APHA 25th Edition, 2023
7	Salinity	ppt	11.7	13.6	14.6	.....	.....
8	Total Suspended Solids	mg/l	25	27	31	.....	IS:3025(Part-17)
9	Total Dissolved Solids	mg/l	10674	11385	12290	5000/7000	IS:3025(Part-16)
10	Total Alkalinity	mg/L	358.2	166.7	380.2	200/600	IS:3025(Part-25)
11	Total Hardness	mg/L	440.3	454.7	459.5	200/600	IS:3025(Part-21)
12	Ca Hardness	mg/L	242.5	246.7	257.5	.....	IS:3025(Part-21)
13	Mg Hardness	mg/L	197.7	202.2	200.7	70/100	IS:3025(Part-17)
14	Chlorides	mg/L	6024	6039	6060	250/1000	IS:3025(Part-32)
15	Fluorides	mg/L	1.34	3.0	3.43	1/1.5	APHA 25th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	0.05/1.5	IS:3025(Part-42)
17	Sulphates	mg/L	472.5	477.3	481.3	270/400	IS:3025(Part-24)
18	Sodium	mg/L	6098.8	6316.4	6337.7	.....	IS:3025(Part-45)
19	Iron	mg/L	5.48	5.52	5.55	.....	IS:3025(Part-45)
20	Potassium	mg/L	1514.6	1520.5	1527	.....	IS:3025(Part-34)
21	Nitrates	mg/L	23.2	24.5	25.8	45	APHA 25th Edition, 2023
22	Manganese	mg/L	<0.01	<0.01	<0.01	0.1/0.3	IS:3025(Part-49)
23	Zinc	mg/L	<0.01	<0.01	<0.01	0.02	IS:3025(Part-54)
24	Nickel	mg/L	<0.01	<0.01	<0.01	0.003	IS:3025(Part-43)
25	Cadmium	mg/L	<0.01	<0.01	<0.01	0.05	IS:3025(Part-52)
26	Chromium	mg/L	<0.01	<0.01	<0.01	0.01	IS:3025(Part-47)
27	Lead	mg/L	<0.01	<0.01	<0.01	.....	IS:3025(Part-31)
28	Total Phosphate	mg/L	0.64	0.77	0.83	.....	IS:3025(Part-48)
29	DO	mg/L	9.5	9.3	8.9	.....	IS:3025(Part-56)
30	COD	mg/L	44	48	56	.....	IS:3025(Part-44)
31	BOD	mg/L	18.2	19.7	20.9	.....	IS:3025(Part-54)
32	Total Nitrogen	mg/L	74.8	86.4	102.9	.....	IS:3025(Part-31)
33	Total Phosphorous	mg/L	<1	<1	<1	.....	.....
34	Total Coliforms	MPN/100ml	30	22	26	Shall not be Detectable	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	Shall not be Detectable	IS:1622:1981

Note: *As per IS 4600:2012 (Desirable/Permissible)

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEEBHAWAN, SAHAKARMARG, LAIKOTHIVISTAR, JODHPUR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LDL No. HRHL/LOA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	--

Pachpadia Results

S.No.	Test Parameters	Units	Tank Water Samra In Dhara			Testing Method
.....	Date of Sampling	.....	08.1.2026	04.2.2026	02.3.2026	
.....	Sample Code	.....	10126N-E-014	06226N-E-026	03326N-E-026	
1	pH	.....	7.69	7.77	7.89	IS:3025(Part-11)
2	Turbidity	NTU	8.8	10.7	11.3	IS:3025(Part-10)
3	Temperature	°C	23.5	24	24.5	IS:3025(Part-9)
4	Colour	Hazen	16.6	19.1	21.6	IS:3025(Part-4)
5	Odour	...	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	.....	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 25th Edition 2023
8	Total Suspended Solid	mg/L	24	26	30	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	367	382	406	IS:3025(Part-16)
10	Total Alkalinity	mg/L	200	208	219.1	IS:3025(Part-23)
11	Total Hardness	mg/L	164	174	189	IS:3025(Part-21)
12	Ca Hardness	mg/L	96	100.2	107	IS:3025(Part-21)
13	Mg Hardness	mg/L	68.1	71.7	79.7	IS:3025(Part-17)
14	Chlorides	mg/L	70	75	76	IS:3025(Part-32)
15	Fluorides	mg/L	0.58	0.74	0.77	APHA 25th Edition 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	16.7	18	18.8	IS:3025(Part-24)
18	Sodium	mg/L	20.1	21.7	23	IS:3025(Part-45)
19	Iron	mg/L	0.39	0.45	0.49	IS:3025(Part-53)
20	Potassium	mg/L	3.1	3.5	3.8	IS:3025(Part-45)
21	Nitrates	mg/L	0.49	0.75	0.77	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 25th Edition 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.35	0.43	0.52	IS:3025(Part-31)
29	BOD	mg/L	8.2	8	7.6	IS:3025(Part-38)
30	COD	mg/L	14	18	26	IS:3025(Part-58)
31	BOD	mg/L	2.6	3.8	5.6	IS:3025(Part-44)
32	Total Nitrogen	mg/L	4.52	3.57	3.65	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	6	8	12	IS:1622-1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622-1981

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LAKHOTIVISTAR, PYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LJA No. HRHL/LOA/2023/31
Type of Sample	Tank Water
Mode of Collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	

Panchkula Results

S.No.	Test Parameters	Units	Tank Water Kesariyon Ki Dhani			Testing Method
----	Date of Sampling	---	08.1.2026	04.2.2026	02.3.2026	
---	Sample Code	----	10126N-E-013	06226N-E-027	09326N-E-027	
1	pH	----	7.55	7.63	7.75	IS:3025(Part-11)
2	Turbidity	NTU	6.2	8.1	8.7	IS:3025(Part-10)
3	Temperature	°C	23.7	24.2	25.1	IS:3025(Part-9)
4	Colour	Hazen	14.5	17	21.5	IS:3025(Part-4)
5	Odour	..	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	..	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 25th Edition 2023
8	Total Suspended Solid	mg/L	27	29	31	IS:1025(Part-17)
9	Total Dissolved Solids	mg/L	396	411	435	IS:3025(Part-16)
10	Total Alkalinity	mg/L	218	226	237.1	IS:3025(Part-23)
11	Total Hardness	mg/L	172.6	182.7	197.7	IS:3025(Part-21)
12	Ca Hardness	mg/L	122.4	125.6	133.4	IS:3025(Part-21)
13	Mg Hardness	mg/L	48.8	54.5	62.5	IS:3025(Part-17)
14	Chlorides	mg/L	45	50	71	IS:3025(Part-32)
15	Fluorides	mg/L	0.74	3.9	0.83	APHA 4500024th Edition 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	21.6	23.4	24.2	IS:3025(Part-74)
18	Sodium	mg/L	16.7	17.8	19.1	IS:3025(Part-45)
19	Iron	mg/L	0.34	0.4	0.44	IS:3025(Part-54)
20	Potassium	mg/L	4.5	4.8	5.1	IS:3025(Part-49)
21	Nitrates	mg/L	0.58	0.64	0.66	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 31258 24th Edition 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-51)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Copper	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.41	0.45	0.58	IS:3025(Part-31)
29	DO	mg/L	7.3	7.7	7.1	IS:3025(Part-38)
30	COD	mg/L	10	14	22	IS:3025(Part-58)
31	BOD	mg/L	3.3	4.5	6.2	IS:3025(Part-44)
32	Total Nitrogen	mg/L	4.2	4.25	4.34	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	12	14	18	IS:1622:1981
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

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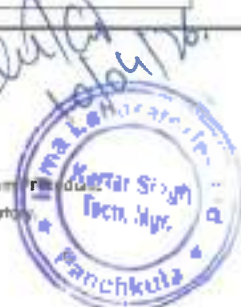
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TEST REPORT

Customer	HPC L RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHPUR, JYOTINAGAR, JAMPUR-302005, RAJASTHAN, INDIA
Work Order No	LOA No. HRRL/LOA/7023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 20th Edition 2023
Testing Protocol	...

Pachpadra Results

S.No.	Test Parameters	Units	Tank Water: Mandapara Village			Testing Method
.....	Date of Sampling	.....	08.1.2026	04.2.2026	07.3.2026	
.....	Sample Code	.....	10126N-E-016	06226N-E-028	03326N-E-028	
1	pH	.....	7.62	7.7	7.82	IS:3025(Part-11)
2	Turbidity	NTU	7.4	9.3	9.9	IS:3025(Part-10)
3	Temperature	°C	23.5	24.0	24.9	IS:3025(Part-9)
4	Colour	Hazen	7.7	9.7	14.2	IS:3025(Part-4)
5	Odour	.....	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	.....	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	DPK	<2	<2	<2	APHA 2520B 24th Edition, 2023
8	Total Suspended Solid	mg/L	11	13	17	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	391.5	406.5	430.5	IS:3025(Part-16)
10	Total Alkalinity	mg/L	770	228	239.1	IS:3025(Part-25)
11	Total Hardness	mg/L	198	208.3	223.3	IS:3025(Part-21)
12	Ca Hardness	mg/L	132.2	136.4	143.2	IS:3025(Part-21)
13	Mg Hardness	mg/L	64.0	69.9	77.9	IS:3025(Part-17)
14	Chlorides	mg/L	56	63	71	IS:3025(Part-32)
15	Fluorides	mg/L	0.45	0.51	0.54	APHA 4500F 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	20.8	22.6	23.4	IS:3025(Part-24)
18	Sodium	mg/L	15.2	16.8	18.1	IS:3025(Part-45)
19	Iron	mg/L	0.27	0.33	0.37	IS:3025(Part-53)
20	Potassium	mg/L	3.1	3.4	3.7	IS:3025(Part-45)
21	Nitrates	mg/L	0.59	0.65	0.67	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA 3125B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.03	<0.03	<0.03	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-43)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.51	0.53	0.68	IS:3025(Part-31)
29	DO	mg/L	8.1	7.9	7.5	IS:3025(Part-38)
30	COB	mg/L	17	16	24	IS:3025(Part-58)
31	BOD	mg/L	2.1	3.3	5.1	IS:3025(Part-44)
32	Total Nitrogen	mg/L	7.2	3.85	3.93	IS:3025(Part-74)
33	Total Phosphorus	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	10	12	15	IS:1622:1951
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1981

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Customer	HPCL RAJASTHAN REFUEL LTD TELBHAWAN, SAKHARMARG, LALNOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HPSL/LJA/2023/31
Type of Sample	Tank Water
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	

Panchpada Results

S.No.	Test Parameters	Units	Tank Water Sajiyali Village			Testing Method
			08.1.2026	04.2.2026	02.3.2026	
.....	Date of Sampling	---	08.1.2026	04.2.2026	02.3.2026	
.....	Sample Code	---	10126N-E-017	06226N-E-029	03326N-E-029	
1	pH	.....	7.52	7.5	7.72	IS:3025(Part-11)
2	Turbidity	NTU	8	9.7	10.5	IS:3025(Part-10)
3	Temperature	°C	23.6	24.3	25	IS:3025(Part-9)
4	Colour	Hazen	13.4	15.9	20.4	IS:3025(Part-4)
5	Odour		Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste		Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA2520B24th Edition, 2023
8	Total Suspended Solid	mg/L	15	17	21	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	619.2	634.2	658.2	IS:3025(Part-16)
10	Total Alkalinity	mg/L	108	116	127.1	IS:3025(Part-23)
11	Total Hardness	mg/L	244.5	254.8	268.9	IS:3025(Part-21)
12	Ca Hardness	mg/L	176.2	180.4	187.7	IS:3025(Part-21)
13	Mg Hardness	mg/L	68.4	72.3	80.4	IS:3025(Part-17)
14	Chlorides	mg/L	135	140	161	IS:3025(Part-32)
15	Fluorides	mg/L	0.79	0.85	0.88	APHA4520D24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	30.6	31.4	33.2	IS:3025(Part-24)
18	Sodium	mg/L	19.8	41.4	42.7	IS:3025(Part-45)
19	Iron	mg/L	0.12	0.18	0.22	IS:3025(Part-53)
20	Potassium	mg/L	18.1	18.4	18.7	IS:3025(Part-45)
21	Nitrates	mg/L	0.71	0.77	0.79	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APHA3125B24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Lead	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-57)
27	Cadmium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphorus	mg/L	0.72	0.76	1.79	IS:3025(Part-51)
29	DO	mg/L	8.6	8.5	8.2	IS:3025(Part-38)
30	COD	mg/L	14	18.2	26.3	IS:3025(Part-58)
31	BOD	mg/L	2.3	3.5	5.3	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.96	4.03	4.09	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-33)
34	Total Coliforms	MPN/100ml	15	17	19	IS:1622:1993
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622:1993

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	SURFACE WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	CPCR

Panchpada Results

S.No.	Test Parameters	Units	Gulab Sagar Lake			Testing Method
			10.1.2026	12.7.2026	18.3.2026	
.....	Date of Sampling	....	13126N-E-008	16226N-E-030	20326N-E-030	
.....	Sample Code	....				
1	pH	.....	7.46	7.25	7.57	IS:3025(Part-11)
2	Turbidity	NTU	15	18.0	16.6	IS:3025(Part-10)
3	Temperature	°C	23.2	23	22.4	IS:3025(Part-9)
4	Colour	Hazen	32.6	30.1	34.6	IS:3025(Part-4)
5	Odour	...	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	...	Agreeable	Agreeable	Agreeable	IS:3025(Part-08)
7	Salinity	ppt	<2	<2	<2	APHA 252QB 24th Edition, 2023
8	Total Suspended Solid	mg/L	72	24	20	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	363	375	351	IS:3025(Part-16)
10	Total Alkalinity	mg/L	140	132	142.1	IS:3025(Part-23)
11	Total Hardness	mg/L	66.8	76.8	61.8	IS:3025(Part-21)
12	Ca Hardness	mg/L	48.2	52.4	45.6	IS:3025(Part-21)
13	Mg Hardness	mg/L	18.1	24.7	20.2	IS:3025(Part-17)
14	Chlorides	mg/L	25	30	33	IS:3025(Part-32)
15	Fluorides	mg/L	0.51	0.57	0.6	APHA 4500D 24th Edition, 2023
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	8.4	10.2	9.4	IS:3025(Part-24)
18	Sodium	mg/L	16.2	17.8	16.5	IS:3025(Part-45)
19	Iron	mg/L	0.29	0.34	0.39	IS:3025(Part-53)
20	Potassium	mg/L	4.0	4.5	4	IS:3025(Part-45)
21	Nitrates	mg/L	0.66	0.77	0.7	IS:3025(Part-34)
22	Manganese	mg/L	<0.1	<0.1	<0.1	APIA 31.25B 24th Edition, 2023
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	0.24	0.16	0.25	IS:3025(Part-31)
29	DO	mg/L	7.9	7.7	8.1	IS:3025(Part-38)
30	COD	mg/L	16	12	20	IS:3025(Part-58)
31	BOD	mg/L	2.3	2.5	1.7	IS:3025(Part-44)
32	Total Nitrogen	mg/L	3.2	3.15	3.23	IS:3025(Part-34)
33	Total Phosphorous	mg/L	<1	<1	<1	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	20	18	20	IS:1622-1987
35	Faecal Coliforms	MPN/100ml	Absent	Absent	Absent	IS:1622-1981

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/37
Type of Sample	SURFACE WATER
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	APHA 24th Edition 2023
Testing Protocol	CPCR

Pachpadra Results

S.No.	Test Parameters	Units	Kumbhariya Ka Talav			Testing Method
			10.1.2023	12.2.2023	15.3.2023	
.....	Date of Sampling	....	10.1.2023	12.2.2023	15.3.2023	
.....	Sample Code	....	13126N-E-019	16226N-E-031	20326N-E-031	
1	pH	....	7.92	7.71	8.03	IS:3025(Part-11)
2	Turbidity	NTU	28	31.9	25.6	IS:3025(Part-10)
3	Temperature	°C	23.3	23.5	24.2	IS:3025(Part-9)
4	Colour	Hazen	22.5	20	24.5	IS:3025(Part-4)
5	Odour	...	Agreeable	Agreeable	Agreeable	IS:3025(Part-05)
6	Taste	....	Snty	Agreeable	Agreeable	IS:3025(Part-08)
7	Solids	ppt	102.2	102.2	102.2	APHA 25th Edition, 2018
8	Total Suspended Solid	mg/L	65	67	43	IS:3025(Part-17)
9	Total Dissolved Solids	mg/L	85825	85840	85816	IS:3025(Part-16)
10	Total Alkalinity	mg/L	3615	3607	3618.1	IS:3025(Part-23)
11	Total Hardness	mg/L	35432	35472	35407	IS:3025(Part-23)
12	Ca Hardness	mg/L	25801	25805.2	25798.4	IS:3025(Part-21)
13	Mg Hardness	mg/L	9341.9	9347.5	9344.0	IS:3025(Part-17)
14	Chlorides	mg/L	37225	37230	37253	IS:3025(Part-32)
15	Fluorides	mg/L	2.9	2.96	2.99	APHA 25th Edition, 2018
16	Copper	mg/L	<0.04	<0.04	<0.04	IS:3025(Part-42)
17	Sulphates	mg/L	3680.5	3682.3	3681.5	IS:3025(Part-24)
18	Sodium	mg/L	9032.5	9034.2	9032.9	IS:3025(Part-45)
19	Iron	mg/L	1.45	1.51	1.55	IS:3025(Part-53)
20	Potassium	mg/L	1434.5	1434.8	1434.3	IS:3025(Part-45)
21	Nitrates	mg/L	3.63	4.13	4.24	IS:3025(Part-14)
22	Manganese	mg/L	0.35	0.4	0.43	APHA 25th Edition, 2018
23	Zinc	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-49)
24	Nickel	mg/L	<0.05	<0.05	<0.05	IS:3025(Part-54)
25	Cadmium	mg/L	<0.001	<0.001	<0.001	IS:3025(Part-41)
26	Chromium	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-52)
27	Lead	mg/L	<0.01	<0.01	<0.01	IS:3025(Part-47)
28	Total Phosphate	mg/L	9.24	9.16	9.25	IS:3025(Part-33)
29	DO	mg/L	7.3	7.1	7.5	IS:3025(Part-38)
30	COD	mg/L	218.4	214.4	227.4	IS:3025(Part-58)
31	BOD	mg/L	20.6	21.8	20	IS:3025(Part-44)
32	Total Nitrogen	mg/L	17.6	12.55	12.63	IS:3025(Part-34)
33	Total Phosphorus	mg/L	4.12	4.53	4.39	IS:3025(Part-31)
34	Total Coliforms	MPN/100ml	80	85	90	IS:1522:1991
35	Fecal Coliforms	MPN/100ml	25	20	18	IS:1622:1991

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Note: This water does not fall under any prescribed Class.

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Authorised by

Dipti Jain
Asst. Tech. Mgr.

10/04/2023
Asst. Tech. Mgr.



Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARMARG, 1 ALKO HVI STAR, WOTNAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	IOA No. HRHL/IOA/2023/33
Type of Sample	SDXL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	...

Pachpura Results

S.No.	Test Parameters	Units	Pachpura Village			Testing Method
			6.1.2026	11.2.2026	18.3.2026	
...	Date of Sampling	....	06126N-E-007	13226N-E-014	20326N-E-014	
....	Sample Code	....				
1	Type of Soil	...	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	.....	7.41	7.60	7.52	USEPA 9045D
3	Bulk Density	g/cm ³	1.98	2.33	2.12	EPA Soil screening guidance manual
4	Porosity	%	28.15	21.23	20.96	USDA Manual
5	Soil Texture		Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	98.51	98.81	98.51	EPA Soil screening guidance manual
7	Silt	%	0.39	0.40	0.53	EPA Soil screening guidance manual
8	Clay	%	1.00	0.79	0.96	EPA Soil screening guidance manual
9	Organic Matter	%	1.13	1.49	0.98	AFHA 2540 G2 3rd Edition 2017
10	Sodium Absorption Ratio	.....	1.18	1.36	1.28	USDA Manual
11	Specific Gravity	mg/kg	2.89	3.40	3.10	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.471	2.781	2.572	USDA Manual
13	Nitrogen	mg/kg	268.42	276.73	264.13	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	18.21	22.37	20.41	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	32.16	36.27	34.39	Manual for soil testing, Govt. of India

19/04/26
Reviewed by



19/04/26
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LAIKOTHIWSTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. H9RL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS: 2720/USDA
Testing Protocol	..

Panchpada Result:

S.No.	Test Parameters	Units	Kiyar Village			Testing Method
.....	Date of Sampling	.....	6.1.2026	11.2.2026	18.3.2026	
.....	Sample Code	.....	08126N-E-008	13126N-E-015	20326N-E-015	
1	Type of Soil	.	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt of India
2	pH	.....	7.57	7.78	7.70	USEPA9015D
3	Bulk Density	g/cm ³	1.98	2.33	2.12	EPA Soil screening guidance manual
4	Porosity	%	20.21	21.29	21.02	USDA Manual
5	Soil Texture	.....	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	97.35	97.55	97.25	EPA Soil screening guidance manual
7	Silt	%	0.44	0.45	0.58	EPA Soil screening guidance manual
8	Clay	%	1.21	2.00	2.17	EPA Soil screening guidance manual
9	Organic Matter	%	0.95	1.31	0.80	APHA2540G 23rd Edition 2017
10	Sodium Absorption Ratio	.	1.22	1.40	1.32	USDA Manual
11	Specific Gravity	mg/kg	2.89	3.40	3.10	EPA Method 830.7300
12	Electrical Conductivity	µS/cm	2.521	2.991	2.621	USDA Manual
13	Nitrogen	mg/kg	270.05	278.76	266.16	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	19.15	23.26	21.38	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	30.24	34.34	32.46	Manual for soil testing, Govt. of India

Reviewed by
21/04/26



Authorised
21/04/26



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LAIKOTHWASTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No	IOA No. HHKL/LOA/2023/31
Type of Sample	SDS
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	--

Rehydration Results

S.No.	Test Parameters	Units	Sajjail village			Testing Method
.....	Date of Sampling	---	6.1.2026	11.2.2026	18.3.2026	
.....	Sample Code	---	08126N-E-009	13226N-E-016	20326N-E-016	
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt of India
2	pH	---	7.65	7.84	7.76	USEPA8045D
3	Bulk Density	g/cm ³	2.04	2.39	2.18	EPA Soil screening guidance manual
4	Porosity	%	19.19	20.27	20.00	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	97.12	97.92	97.02	EPA Soil screening guidance manual
7	Silt	%	0.45	0.46	0.59	EPA Soil screening guidance manual
8	Clay	%	2.43	2.22	2.39	EPA Soil screening guidance manual
9	Organic Matter	%	1.12	1.49	0.98	APHA2540G23rd Edition 2017
10	Sodium Absorption Ratio	---	1.21	1.39	1.31	USDA Manual
11	Specific Gravity	mg/kg	7.98	3.48	3.18	EPA Method 8013.7300
12	Electrical Conductivity	ms/cm	7.503	2.813	2.603	USDA Manual
13	Nitrogen	mg/kg	266.84	264.15	251.55	Manual for soil testing, Govt. of India
14	Phosphorus	mg/kg	17.12	21.23	19.35	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	27.86	31.97	30.09	Manual for soil testing, Govt. of India

10/04/26
Reviewed by



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TEEBHAWAN, SANKARMARG, LAKOTHIYISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	IDA No. HRPL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:1720/ISCA
Testing Protocol	..

Panchkula Results

S. No.	Test Parameters	Units	Dewai & Dhani			Testing Method
			6.1.2026	11.2.2026	18.3.2026	
.....	Date of Sampling	..	08126M-E-010	13226M-E-017	20326M-E-017	
---	Sample Code	.....				
1	Type of Soil	-	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	...	7.41	7.60	7.52	USEPA83450
3	Bulk Density	g/cm ³	1.88	2.13	2.32	EPA Soil screening guidance manual
4	Porosity	%	19.62	20.70	20.43	USDA Manual
5	Soil Texture	-	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.52	94.72	95.42	EPA Soil screening guidance manual
7	Silt	%	0.43	0.44	0.57	EPA Soil screening guidance manual
8	Clay	%	4.05	3.84	4.01	EPA Soil screening guidance manual
9	Organic Matter	%	1.16	1.32	1.01	APHA2540G2 3rd Edition 2005
10	Sodium Absorption Ratio	...	1.12	1.30	1.22	USDA Manual
11	Specific Gravity	mg/kg	2.74	3.26	2.95	EPAMet (ind830) 7300
12	Electrical Conductivity	mS/cm	2.514	2.824	2.624	USDA Manual
13	Nitrogen	mg/kg	259.65	267.96	255.36	Manual for soil testing, Govt. of India
14	Phosphorus	mg/kg	23.07	25.18	23.30	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	31.52	36.03	34.15	Manual for soil testing, Govt. of India

Required: 10/04/26



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Idma Laboratories Limited

TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAHKARMARG, LAKHOTHIWASTAR, BHOJINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No	LOA No. HIRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS: 2720/USDA
Testing Protocol	..

Panchkula Results

S.No.	Test Parameters	Units	Sambhra Village			Testing Method
.....	Date of Sampling	.....	6.1.2026	11.2.2026	18.3.2026	
.....	Sample Code	.....	08126N-E-011	13226N-E-018	20326N-E-018	
1	Type of Soil	..	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt of India
2	pH	....	7.39	7.58	7.50	USEPA9045D
3	Bulk Density	g/cm ³	1.92	2.27	2.06	LPA Soil screening guidance manual
4	Porosity	%	19.94	21.02	20.75	USDA Manual
5	Soil Texture	...	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	98.17	98.32	98.02	EPA soil screening guidance manual
7	Silt	%	0.41	0.42	0.55	EPA soil screening guidance manual
8	Clay	%	1.47	1.26	1.43	EPA soil screening guidance manual
9	Organic Matter	%	1.17	1.49	0.98	APHA2540G23rd Edition 2017
10	Sodium Absorption Ratio	...	1.16	1.34	1.76	USDA Manual
11	Specific Gravity	mg/kg	2.80	4.31	3.01	EPA Method 836.7300
12	Electrical Conductivity	mS/cm	2.453	2.763	2.553	USDA Manual
13	Nitrogen	mg/kg	253.52	262.23	249.63	Manual for soil testing, Govt. of India
14	Phosphorus	mg/kg	20.14	24.76	22.38	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	28.04	32.15	30.27	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	MPCL RAJASTHAN REFINERY LTD. TELDHAWAN, SAKHARMARG, LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HYRL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS: 2720/USDA
Testing Protocol	..

Pachpadra Results

S. No.	Test Parameters	Units	Kasargum KI Dhani			Testing Method
			6.1.2026	11.2.2026	18.3.2026	
.....	Date of Sampling	.....	08126NH-E-012	13226N-C-019	20326N-E-019	
.....	Sample Code	---				
1	Type of Soil	.....	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt of India
2	pH	.....	7.71	7.40	7.82	IISEPA90d5D
3	Bulk Density	g/cm ³	1.98	2.33	2.17	EPA Soil screening guidance manual
4	Porosity	%	19.98	21.06	20.79	USDA Manual
5	Soil Texture	.....	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	96.45	96.65	96.35	EPA Soil screening guidance manual
7	Silt	%	0.46	0.47	0.60	EPA Soil screening guidance manual
8	Clay	%	3.09	2.88	2.05	EPA Soil screening guidance manual
9	Organic Matter	%	1.11	1.47	0.96	APHA 2540G23rd Edition 2017
10	Sodium Adsorption Ratio	.....	1.24	1.42	1.34	USDA Manual
11	Specific Gravity	mg/kg	2.89	3.40	3.10	EPA method 830.7305
12	Electrical Conductivity	mS/cm	2.485	2.799	2.589	USDA Manual
13	Nitrogen	mg/kg	256.81	265.12	252.52	Manual for soil testing, Govt of India
14	Phosphorous	mg/kg	19.13	19.24	21.36	Manual for soil testing, Govt of India
15	Potassium	mg/kg	31.02	35.13	33.25	Manual for soil testing, Govt of India



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TEST REPORT

Customer	MPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAMKARMARG, LAKDTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/70221/31
Type of Sample	SDH
Made of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS 2720/USDA
Testing Protocol	-

Panchkula Results

S.No.	Test Parameters	Units	Gopari Village			Testing Method
			5.1.2026	11.2.2026	18.3.2026	
.....	Date of Sampling	---	08126N-E-013	13226N-E-02D	20326N-E-020	
.....	Sample Code	.....				
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.69	7.85	7.83	USEPA 9045C
3	Bulk Density	g/cm ³	1.99	2.34	2.13	EPA Soil screening guidance manual
4	Porosity	%	20.23	21.31	21.04	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	97.04	97.24	96.94	EPA Soil screening guidance manual
7	Silt	%	0.41	0.42	0.55	EPA Soil screening guidance manual
8	Clay	%	2.55	2.34	2.51	EPA Soil screening guidance manual
9	Organic Matter	%	1.22	1.58	1.07	APIA254UG2 3rd Edition 2007
10	Sodium Absorption Ratio	---	0.96	1.14	1.06	USDA Manual
11	Specific Gravity	mg/kg	2.91	3.42	3.11	EPA Method 800 7300
12	Electrical Conductivity	mS/cm	1.509	2.613	2.601	USDA Manual
13	Nitrogen	mg/kg	753.26	267.57	254.97	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.14	24.25	22.37	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	33.95	36.06	56.18	Manual for soil testing, Govt. of India

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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANKARMARG, LALKOTHIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRRL/LOA/2023/31
Type of Sample	SCIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS-2720/USDA
Testing Protocol	---

Pachpadra Results

S.No.	Test Parameters	Units	Mandapara Village			Testing Method
---	---	---	6.1.2026	11.2.2026	18.3.2026	
---	Date of Sampling	---	08126N-E-013	13226N-E-020	20326N-E-020	---
---	Sample Code	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
1	Type of Soil	---	7.61	7.80	7.72	USEPA9045D
2	pH	---	1.99	2.34	2.13	EPA Soil screening guidance manual
3	Bulk Density	g/cm ³	19.95	21.03	20.76	USDA Manual
4	Porosity	%	Sandy	Sandy	Sandy	USDA Manual
5	Soil Texture	---	95.74	95.54	95.64	EPA Soil screening guidance manual
6	Sand	%	0.43	0.44	0.57	EPA Soil screening guidance manual
7	Silt	%	3.23	3.67	3.79	EPA Soil screening guidance manual
8	Clay	%	1.17	1.53	1.62	APIIA25405.73rd Edition 2017
9	Organic Matter	%	1.04	1.22	1.14	USDA Manual
10	Sodium Absorption Ratio	---	2.91	3.42	3.11	EPAMethod830.73DO
11	Specific Gravity	mg/kg	2.527	2.837	2.627	USDA Manual
12	Electrical Conductivity	mS/cm	251.48	259.19	247.19	Manual for soil testing, Govt. of India
13	Nitrogen	mg/kg	24.09	29.04	27.16	Manual for soil testing, Govt. of India
14	Phosphorus	mg/kg	38.37	41.08	41.20	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	---	---	---	---



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD TELBHAWAN, SAHKARMARG, LAIKOTHIMSTAR, PYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LQA No. HRSL/LQA/2023/21
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS 2720/JSDA
Testing Protocol	..

Pachpadra Results

S.No	Test Parameters	Units	Godara Ki Dhani			Testing Method
.....	Date of Sampling	.....	6.1.2026	11.2.2026	18.3.2026	
.....	Sample Code	.....	08126N-E-014	13226N-E-021	20326N-E-023	
1	Type of Soil		Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt of India
2	pH	....	7.72	7.91	7.83	USEPA9045D
3	Bulk Density	g/cm ³	2.03	2.16	2.15	EPA Soil screening guidance manual
4	Porosity	%	19.95	21.03	20.76	USDA Manual
5	Soil Texture	.	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.36	95.56	95.26	EPA Soil screening guidance manual
7	Silt	%	0.38	0.39	0.52	EPA Soil screening guidance manual
8	Clay	%	4.26	4.05	4.22	EPA Soil screening guidance manual
9	Organic Matter	%	1.26	1.62	1.13	APHA2540G23rd Edition 2017
10	Sodium Absorption Ratio	..	1.18	1.36	1.28	USDA Manual
11	Specific Gravity	mg/kg	2.93	3.05	3.14	EPA Method 830.7300
12	Electrical Conductivity	mS/cm	2.483	2.793	2.583	USDA Manual
13	Nitrogen	mg/kg	252.19	260.50	247.50	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	26.15	30.26	28.38	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	47.66	46.17	44.29	Manual for soil testing, Govt. of India

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Signature



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10/04/26



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SAKHARWARG, LALKOTHIVISTAR, JODHNAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LGA No. HRRL/LQA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS-2720/USDA
Testing Protocol	.

Panchkula Results

S.No.	Test Parameters	Units	Kalawa Village			Testing Method
---	Date of Sampling	----	6.1.2026	11.2.2026	18.3.2026	
---	Sample Code	----	08126N-E-015	13226N-E-022	20326N-E-022	
1	Type of Soil	----	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.42	7.61	7.53	USEPA90M50
3	Bulk Density	g/cm ³	1.91	2.26	2.06	EPA Soil screening guidance manual
4	Porosity	%	20.87	21.95	21.58	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.68	95.88	95.58	EPA Soil screening guidance manual
7	Silt	%	0.45	0.46	0.59	EPA Soil screening guidance manual
8	Clay	%	3.66	3.56	3.83	EPA Soil screening guidance manual
9	Organic Matter	%	1.18	1.54	1.03	APH-A754052 3rd Edition 2017
10	Sodium Absorption Ratio	..	1.17	1.35	1.27	USDA Manual
11	Specific Gravity	mg/kg	2.79	3.30	2.99	EPAMethod830 7300
12	Electrical Conductivity	mS/cm	2.513	2.873	2.613	USDA Manual
13	Nitrogen	mg/kg	255.92	255.73	252.63	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.76	24.87	22.75	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	37.22	47.33	39.45	Manual for soil testing, Govt. of India

26/04/26
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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELBHAWAN, SANHARMARG, LAKHOTIVISTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRR/LA/04/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS:2720/USDA
Testing Protocol	

Pachpadra Results

S.No.	Test Parameters	Units	Champa Ben Village			Testing Method
.....	Date of Sampling	.....	6.1.2026	11.2.2026	18.3.2026	
.....	Sample Code	.....	08126N-E-016	13226N-E-023	20326N-E-023	
1	Type of Soil	.....	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	.....	7.39	7.58	7.51	USE PA9045D
3	Bulk Density	g/cm ³	1.96	2.31	2.10	EPA Soil screening guidance manual
4	Porosity	%	20.16	22.24	20.97	USDA Manual
5	Soil Texture	.....	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.97	96.17	95.87	EPA Soil screening guidance manual
7	Silt	%	0.42	0.43	0.56	EPA Soil screening guidance manual
8	Clay	%	3.61	3.40	3.57	EPA Soil screening guidance manual
9	Organic Matter	%	1.15	1.51	1.98	APHA2540G23rd Edition 2017
10	Sodium Adsorption Ratio	.....	1.12	2.30	1.22	USDA Manual
11	Specific Gravity	mg/kg	2.86	3.37	3.07	CPAMethac830 7300
12	Electrical Conductivity	mS/cm	2.497	2.807	2.517	USDA Manual
13	Nitrogen	mg/kg	248.65	256.36	244.36	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	20.96	25.07	23.19	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	37.84	36.95	35.07	Manual for soil testing, Govt. of India



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TEST REPORT

Customer	HPCL RAJASTHAN REFINERY LTD. TELDHAWAN, SAMHARMARG, LALKOTHRVASTAR, JYOTINAGAR, JAIPUR-302005, RAJASTHAN, INDIA
Work Order No.	LOA No. HRPL/LOA/2023/31
Type of Sample	SOIL
Mode of collection of Sample	Sampling by Laboratories
Sample Collected by	Idma Lab Representative
Sampling Protocol	IS-2720/USDA
Testing Protocol	

Pachpadra Results

S.No.	Test Parameters	Units	Mandapura Village-1			Testing Method
.....	Date of Sampling		6.1.2026	11.7.2026	18.9.2026	
.....	Sample Code	---	08175N-F-017	19226N-E-024	20326N-E-024	
1	Type of Soil	---	Lumps & powder	Lumps & powder	Lumps & powder	Manual for soil testing, Govt. of India
2	pH	---	7.35	7.52	7.44	USEPA9045L
3	Bulk Density	g/cm ³	1.97	2.32	2.11	EPA Soil screening guidance manual
4	Porosity	%	19.94	21.02	20.75	USDA Manual
5	Soil Texture	---	Sandy	Sandy	Sandy	USDA Manual
6	Sand	%	95.23	95.43	95.13	EPA Soil screening guidance manual
7	Silt	%	0.45	0.46	0.59	EPA Soil screening guidance manual
8	Clay	%	4.32	4.11	4.28	EPA Soil screening guidance manual
9	Organic Matter	%	1.13	1.49	0.98	APHA2540G23rd Edition 2017
10	Sodium Absorption Ratio	---	1.21	1.39	1.21	USDA Manual
11	Specific Gravity	mg/kg	2.88	3.39	3.08	EPA Method 630-7300
12	Electrical Conductivity	mS/cm	2.576	3.886	2.676	USDA Manual
13	Nitrogen	mg/kg	200.32	268.63	256.03	Manual for soil testing, Govt. of India
14	Phosphorous	mg/kg	12.82	23.93	22.05	Manual for soil testing, Govt. of India
15	Potassium	mg/kg	33.06	37.17	35.79	Manual for soil testing, Govt. of India

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