

भारत कोकिंग कोल लिमिटेड

एक मिनी रत्न कम्पनी
(महाराष्ट्र कम्पनी कोल इंडिया का एक उपक्रम)
पंजीकृत कार्यालय : कोयला भवन, कोयला नगर,
धनबाद-826005
सीआइएन : U10101JH1972GOI000918



Bharat Coking Coal Limited

A Mini Ratna Company

(A Subsidiary of Coal India Limited: A Maharatna Company)

Regd. Off. : Koyla Bhawan, Koyla Nagar

Dhanbad - 826005

CIN : U10101JH1972GOI000918

महाप्रबंधक का कार्यालय

पश्चिमी झरिया क्षेत्र

पो. मुनीडीह, जिला: धनबाद (झारखण्ड)-828129

फोन नं. 0326 2273483; फेक्स: 0326 2273445, ई-मेल: gmwj.bcccl@coalindia.in

OFFICE OF THE GENERAL MANAGER WESTERN JHARIA AREA

PO: MOONIDIH, DISTT: DHANBAD (JHARKHAND) - 828129

PHONE NO: 0326 2273483, FAX NO: 0326 2273445, e-mail : gmwj.bcccl@coalindia.in

"For uploading online on the 'Parivesh Portal' of MoEF&CC and sending by email"

Ref:- BCCL/WJA/ENV/2025/ 363

Date:- 23/05/2025

To,
The Regional Director,
Ministry of Environment & Forest and Climate Change
Regional Office (ECZ), Bunglow No. A-2,
Shyamali Colony, Ranchi – 834002.

Sub: - Submission of six-monthly reports on compliance of Environment Clearance for the period from **October' 2024 to March '2025** with respect to **exploration activity Jharia CBM Block-I Of M/s BCCL.**

Ref: EC Order No. EC/SEIAA/2022-2023/2842/2022, Dated -19/06/2023

Respected Sir,
Please find enclosed herewith the six-monthly reports on compliance of Environment Clearances for the period from **October'2024 to March'2025** in respect of exploration activity Jharia CBM Block-I Of M/s Bharat Coking Coal Limited. We hope you will find in order.

Thanking you,
Encl: - As Above

Yours faithfully,

General Manager
Western Jharia Area

EC Compliance Report - Exploration Activity in Jharia CBM Block-I of BHARAT COKING COAL LIMITED at Village: Dhandabar, Parsia, Karitand, Bardhubhi, Jatudih, Debagram, Tehsil: Dhanbad Located in Dhanbad District of Jharkhand State

Name of the Project: Jharia CBM Block-I

Environmental Clearance Letter : EC/SEIAA/2022-2023/2842/2022 Dated 19th June 2023 from SEIAA

Period of Compliance Report: Six monthly compliance report for the Jharia CBM Block-I for the period from October'2024 to March'2025.

SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions		
1	This Environment Clearance is valid subject to the following condition below- That this project has- Obtained all legal rights to operate at concerned place. b) Complied with all existing concerned laws of the land. c) Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.	a) Legal rights to operate is obtained from CO Putki (Dhanbad), CO Baghmara (Dhanbad), DFO Wild Life (Hazariabagh), DFO Forest Distance (Dhanbad) and CTE & CTO has been granted from the JSPCB. b) LOI/Lease document is under BCCL mining leasehold area under CBA Act 1957 and CMN Act 1972.
2	The excess water released during exploration can inundate sensitive arid ecosystems, worsen surface water quality and diminish underground water supplies. Effective management of the same has to be implemented.	Ground Water is being regularly monitored by NABL accredited laboratory to ensure that the produced water storage or disposal has no effect on it.
3	Methane form explosive mixture in combination with air. Management plan for same has to be implemented so that the explosive mixture is not formed.	Shall be complied as Test well operation starts.
4	The proposal shall not attract the following Acts and Rules. a) Forest Act 1980 Wild life (Protection) Act, 1972 The Eco sensitive areas as notified under Environment (Protection) Act, 1986 d) Critically polluted areas as notified by CPCB and also shall not harm live stocks and humanbeings and disturb their activities.	Noted, Agreed with
5	The project proponent shall comply with the Bio-medical Waste Management Rules, 2016 and its amendments.	Not Applicable as there is no Hospital and Dispensary Under Jharia CBM Block-I
6	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with six-monthly compliance report. (in case of the presence of schedule-I species in the study area)	Not Applicable
7	In the Writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. The Hon'ble Supreme Court passed an order dated 03.06.2022 "National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".	Not Applicable
Air & Noise Environment:		
1	Adequate stack height shall be provided for D.G. Sets 3 x 1100 KVA and 1x450 KVA as per CPCB norms. The power requirement of the drilling rig (~3750 KW) will be met by using the Diesel Genertor (DG) sets on-board. High Speed Diesel (HSD) will be used to run the drilling rig and the DG sets during operation.	Being Complied.
2	Strict measures shall be taken to control odour with appropriate odour abatement methods.	Shall be adhered.
3	The Proponent shall develop compensatory greenbelt in on shore which shall not be less than 33% of the total area of the site. Greenbelt with tall growing trees shall be developed.	Being Complied.
4	Fugitive emissions from storage tanks shall be avoided by providing air condensers.	Shall be done once testwell operation started.
5	The Proponent should provide appropriate PPE to the persons working in the unit and suitable to their work place environment.	Appropriate PPE's is provided by proponent as per the OISD 155 with suitable to their work place environment.
6	The proponent shall establish adequate number of air monitoring stations, including one online station in consultation with JSPCB and take appropriate measures to ensure that the GLC shall comply with the NAAQM norms notified by MoEF&CC, Govt on 16.11.2009.	It shall be complied at the earliest.
7	Measures shall be taken to comply with the provisions made under " Noise pollution (Regulation and control) Amendment Rules 2010 dated 11-01-2010 issued by MoEF.	Measures are taken as per Noise pollution Amendment Rules 2010 dated 11-01-2010 issued by MoEF.
8	The industry shall comply with MoEF&CC Guidelines for Disposal of Drilling Cuttings and Drilling Fluid for Offshore Installation notified as per GSR 546 (E) dated 30th August 2005.	• CBM drill cuttings do not carry any oil traces and they are non-hazardous. Infact, No hazardous chemical is used in drilling operation. • The drill cuttings are inert material and are being used for construction activities like back filling of low lying areas, construction of well pads, road filling etc. • The drilling fluid after solid-liquid separation is recycled or evaporated in HDPE lined pits.

9	In case the commercial viability of the project is established, the company will prepare a detailed plan for development of oil and gas fields in the block and obtain fresh environment clearance for development and production.	As suggested, shall be adhered.
10	Adequate infrastructural facilities/ equipment arrangement should be provided so that booms, skimmers and chemical dispersants could be deployed immediately in case of oil spill from the installations/ drilling activities.	Shall be complied as Test well operation starts.
11	The company shall comply with all the environmental protection measures and risk mitigation measures relating to the project shall be implemented.	Shall be complied as Test well operation starts.
12	No pipelines or its part shall be laid in the forest land/protected Area without prior permission/approval from the competent Authority.	Jharia CBM Block-I is not fall in the forest land or any protected area.
13	As proposed by the project proponent zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged to any surface water body, sea and/or on land, Mobile ETP along with RO shall be installed to treat the waste water.	All the required system for proper handling of waste water and protecting the nearby other water sources have been taken in account and project activities shall be done accordingly
14	During production, storage and handling the fugitive emission of methane if any shall be monitored using Infra-red camera/appropriate technology.	Shall be followed.
15	The project proponent also to ensure trapping/storing of the CO ₂ generated, if any during the process and handling.	Insignificant amount of CO ₂ is generated from engine exhaust.
16	The project proponent shall make all arrangements for control of noise from the drilling activity. Acoustic enclosure shall be provided for the DG sets along with adequate stack height as per CPCB guidelines.	• All DG/GG sets have proper acoustic enclosures and meet the norms. • Height of all the stacks/vents is kept as per the CPCB guidelines.
17	Drill cuttings separated from drilling fluid shall be adequately washed and disposed in HDPE lined pit. Waste mud shall be tested for hazardous contaminants and disposed according to HWMH Rules, 2016. No effluent/drilling mud shall be discharge/disposed off into sea. The company shall comply with guidelines for disposal of solid waste: drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August 2005.	Shall be done as suggested. During exploratory drilling activities, drilling wastewater including drilling cutting wash was collected in HDPE lined disposal pit at site for evaporation and was complied with notified standards for onshore disposal. Water based drilling fluid used for exploratory drilling is non-hazardous. Proponent disposes solid, water, drill cutting and drilling fluid as per notified guidelines (GSR.546(E) dated 30th August, 2005)
18	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	Shall be complied as Test well operation starts.
19	The project proponents shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At fixed installations or plants use of ground flare shall be explored at the place of ground flaring the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	• Fire fighting equipments are provided in Jharia CBM Block-I as per the provision of OISD-189 and OMR 2017. • Soil remediation is not required as there is no oil spillages associated with CBM gas extraction. For now Flare is not present in current Operational Phase. There is no flaring of gas /ground flaring
20	The project proponent shall develop a contingency plan for H ₂ S released including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H ₂ S detectors in locations of high risk of exposure along with self-containing breathing apparatus.	CBM gas is free from H ₂ S gas and there is absolutely no chance of H ₂ S emission while performing operations.
21	Blow out preventer system shall be installed to prevent well blowout during drilling operations.	Blow Out Preventer (BOP) is always installed while performing drilling operations to control kicks and to prevent Well Blow Out as per OMR-2017 and OISD-174.
22	On completion of the project necessary measure shall be taken for safe plugging of wells with secured enclosures to restore the drilling site to the original condition. The same shall be confirmed by the concerned regulatory authority from environment via a full abandonment plan shall be implemented for the drilling site in accordance with the applicable DGH/Indian Petroleum Regulations.	Shall be complied as Test well operation starts.
23	As per the ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the corporate Environmental Responsibility and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent as committed shall provide education funds in technical training centers/ support in nearby villages's schools support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc. in the nearby villages. The action plan shall be completed within time as proposed.	• We shall adhere with the CSR guidelines • CSR activities was undertaken as per company rule.
24	No lead acid batteries shall be utilized in the project/site.	Lead acid batteries are not used in the project site.
25	Occupational health surveillance of the workers & employees shall be carried out as per the prevailing Acts and Rules. All workers & employees shall be provided with required safety kits/mask for personal protection.	• Occupational health surveillance of the workers in Jharia CBM Block-I is being carried out periodically as per prevailing Acts and Rules.
26	Oil content in the drill cuttings shall be monitored and report & shall send to the Ministry's Regional Office.	Shall be done as suggested and a reputed NABL laboratory has been hired (INSTITUTE FOR ENVIRONMENTAL MANAGEMENT) to carry out periodic monitoring of drilling cuttings.

27	The project proponent shall prepare operating manual in respect of all activities which would cover all safety environment related issues and measures to be taken for protection. One set of environment manual shall be made available at the drilling site/project site. Awareness shall be crested at each level of the management. All the schedules and results of environment monitoring of the site should be done.	Being Complied.
Specific Conditions :- Waste Water Generation		
1	The total waste water generation is Drilling fluids, bilge water and sewage shall be treated and discharged to the marine outfall adjacent to the rig after meeting the discharge norms specified in the EPA Rules/ MARPOL. During normal course of operation the waste water will be recycled into process and incase of any eventuality.	Entire waste water during the operations shall be handled as per the norms and no such water shall be discharge in the other water resources.
2	The proponent shall provide on board STP with 50 KLD capacity for treatment of domestic waste water. The treated waste water shall be disposed as per MARPOL (residual chlorine 1 ppm)	At present there is no residential colony in Jharia CBM Block I.
Specific Conditions :- Hazardous/Solid Wastes		
1	Hazardous waste generation during the Rigs operations such as organic residue, waste oil, used oils etc. shall be disposed as per the Hazardous and other wastes (Management and Tran boundary movement) Rules, 2016 and its amendments thereof	Shall be Complied.
2	The general method of handling and disposal of solid wastes shall be as follows: • Drill cuttings shall be seperated from the mud and shale shaker using a fine mesh and washed. Wahsed drill cuttings shall be discharged at the well locations as per stipulated norms. • General wastes, scrap metal and wood shallbe segregated and brought back to the shore for appropriate disposal. • All plastics/ paper waste shall be collected and brought back to the shore for disposal to scrap dealers. • Hazardous wastes such as waste lube/ system oil form machinery used oil from generator set shall be properly stored in drums and transported to base for safe disposal through authorized recyclers. • Containers of oil and other materials shall be brought back and sold to JSPCB/CPCB authorized recyclers. • Unused mud and drill cuttings shall be discharged to sea after dilution as per GSR546(E) August 2005. • The proponent shall ensure that disposal of Drill Cuttings should not have oil content >10 gm/kg as per GSR 546 (E). • Non-biodegradable waste shall be transported to onshore base for safe disposal Biodegradable waste shall be transported to onshore and used for composting. • As per Annex V MARPOL. Food waste shall be minced into pieces of <25 mm size before disposing into the sea.	Shall be Complied when Test well started.
3	The proponent should strictly comply with E-waste Management Rules, 2016 and report compliance.	Shall be followed as suggested



Specific Conditions :- Environment

1	The Project Proponent shall ensure that the transportation activity of the unit should not cause any inconvenience to the public and comply with local norms, if any:	Shall be followed as suggested
EC COMPLIANCES - Jharia CBM Block-I		Page - 4
SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions		
1	The project proponent shall submit the copies of the Environment Clearance to the Heads of local bodies. Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turns has to display the same 30 days from the date of receipt.	Complied. A copy of the Environmental clearance (EC) has been circulated to the local administration.
2	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environment clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, Jharkhand.	Complied. (Paper cutting copy enclosed)
3	The Prior Environment Clearance issued to this project along with the approved Environment Management Plan (EMP) and the Approved DPR should be uploaded in the project's web site and be made available in the public domain.	Complied.
4	The PEC main contents be displayed on permanent boards at the main entry of the premises and at other prominent places.	Being Complied.
5	The project proponent shall strictly adhere to its Environment Policy approved by the SEIAA and shall be made available in the public domain.	Shall be Complied.
6	A separate bank account need to be started for the budget allocated for the EMP and the amount committed should be deposited before the project obtains CTE/CTO as the case may be the amount allocated should not be delivered for any other purpose.	Complied.
7	The fund earmarked for environment protection measures should be kept in separate account and should not be delivered for the other purpose. Year wise expenditure should be reported to the ministry and its Regional Office located at Ranchi.	Complied. Expenditure Amount for conducting environment monitoring for FY 24-25 :- 41005/-
8	The proponent before starting the operations shall obtain all other mandatory clearances from respective departments including the CTE and CTO from the JSPCB.	Complied.
9	The project proponent shall meticulously follow the Form 1/2 of the application and approved EMP for the purpose of all compliances .	Being Complied.
10	Four ambient air quality- monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with State Pollution Control Board.	JSPCB has been consulted for the finalization of the air monitoring station.
11	Occupational health check up program for the workers should be undertaken periodically. A separate environment management cell with suitable qualified personnel should be set up under the control of a senior Executive who will report directly to the Head of the Organization.	Occupational health surveillance of the workers in Jharia CBM Block- I is being carried out periodically as per prevailing Acts and Rules.
12	The project proponent shall submit Half-Yearly reports on the status of compliance of the stipulated Environment Clearance Conditions including results of mentioned data (both in hard copies as well as by e-mail) to the ministry of Environment & Forests its Regional Office Ranchi SEIAA Jharkhand Zonal Office of Central Pollution Control Board and Jharkhand State Pollution Control Board.	Six Monthly Compliances of Environmental clearance is being submitted to the ministry of Environment & Forests its Regional Office Ranchi SEIAA Jharkhand Zonal Office of Central Pollution Control Board and Jharkhand State Pollution Control Board.
13	The proponent shall upload the status of the compliance of the environmental clearance conditions including results of monitored data on their websites and shall update the same periodically.	Being Complied.
14	Officials from the Regional Office of MoEF&CC, Ranchi/ The SEIAA, Jharkhand through the Regional Offices of Jharkhand State Pollution Board who would be monitoring the implementation of environment safeguards should be given full co-operation facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the regional Office to MoEF&CC Ranchi.	Shall be Complied.
15	SEIAA reserves the right to cancel the EC issued at any time, if EC has been obtained by the proponent through suppression of any information or furnishing false information upon which the project is appraised.	Agreed All the required precautions for CBM Operations shall be taken care of moreover the entire furnished information are correct in its nature and shall be followed completely
16	Concealing the factual data in the compliance reports or failure to comply with any conditions mentioned above may result in withdrawal of the EC and attract action under the provisions of Environment (Protection) Act 1986.	All the efforts shall be made to comply the statutory guidelines on the subject.

17	The SEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions from time to time in the interest of environment protection.	Agreed
18	Any appeal against this Environment Clearance shall lie with the National Green Tribunal if preferred within a period of 30 days as prescribed under section 16 of the national Green Tribunal Act 2010.	Agreed
19	The Project authority must strictly adhere to the stipulations made by the Central Government as part of the international conventions and Merchant Shipping Act.	Mainly this point is not applicable to this industry, However any specific guidelines shall be adhered.
20	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended on 3rd October 1994. Prior approvals from OISD, PESO etc should be obtained wherever applicable.	Shall be Complied, once the related operational activities start
21	The project authorities must comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with Hazardous and Other Wastes (Management, Handling and Transboundary) Rules 2016 wherever applicable.	Shall be Complied, once the related test well operational activities start
22	A separate environment management cell to be set up carry out the environment management & monitoring functions.	• A separate Environment Management Cell has been set up to carry out the EMP and Monitoring functions. • A reputed NABL laboratory has been hired to carry out periodic monitoring of all environmental parameters.
23	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA. State Government along with the implementation schedule for all the conditions stipulated herein.	Adequate funds are available from the planned annual budget and no funds shall be diverted for the other purpose.
24	The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's regional office. State Pollution Control Board and Central Pollution Control Board. A six-monthly compliance status report should be submitted to the monitoring agencies.	Being Complied.
 Project Head Jharia CBM Block-I Prabha Energy Limited		



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	4
Discipline: Chemical						Group: Water					Sub-Group: Ground Water							
Report Issue Date: 28-02-2025					Test Report No.: RN-241115001GW1													
Sample ID: 250225WA02001					Sample Description: GW - Bore well													
Challan No./P.O. No.: N/A					Challan No./ P.No. Date: 15-11-2025													
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: Mr. Mukesh Raj Mahto								
Sample Drawn by: IEM Team										Sampling Date: 25-02-2025								
Sampling Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: Rajkiye Madh Vidhayale, Karitand																		
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.7
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	787
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	5.3
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	16
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	564
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	101.8
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	346
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	11
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	62
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	82.2
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	37.9
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	3.5
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	42.2

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn By Deepak Singh & team

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6. In case of feedback/ complaints, please send an email at dgm.iemeco@gmail.com

On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by	Authorized Signatory
 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

Discipline: Chemical		Group: Water	Sub-Group: Ground Water
Report Issue Date: 28-02-2025		Test Report No.: RN-241115001GW1	
Sample ID: 250225WA02001		Sample Description: GW - Bore well	
Challan No./P.O. No.: N/A		Challan No./ P.No. Date: 15-11-2025	
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002			
Type of Industry: Energy		Customer Representative: Mr. Mukesh Raj Mahto	
Sample Drawn by: IEM Team		Sampling Date: 25-02-2025	
Sampling Protocol: CPCB Guideline & IS Method 3025 Series			
Sampling Location: Rajkiye Madh Vidhayale, Karitand			
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025	Testing Ended: 28-02-2025

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
15.	Arsenic (as AS)	mg/l	APHA: 3114B.2023	0.01	No Relaxation	BDL(MDL-0.02)
16.	Mercury	mg/l	APHA: 3112B.2023	0.001	No Relaxation	BDL(MDL-0.05)
17.	Fluoride (as F)	mg/l	APHA 4500 D:2017	1.0	1.5	0.27
18.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL(MDL-0.2)
19.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL(MDL-0.2)
20.	Iron	mg/l	APHA 3111 B.2017	1	No Relaxation	0.21
21.	Temperature	°C	APHA 3111 B:2023	--	--	25.2
22.	SAR	mg/l	IEM/ SOP/WATER	0.001	0.002	5.2
23.	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.05	No Relaxation	BDL(MDL-0.001)
24.	Chromium	mg/l	APHA: 3111B.2023	5	15	BDL(MDL-0.2)
25.	Zinc	mg/l	APHA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26.	Nickel	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
27.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.02)
28.	Salinity	--	APHA 2520 B:2023	--	--	3.46
29.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
30.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)
31.	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
32.	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

----END Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by

T. Ahmad
(Tauqeer Ahmad)
Technical Manager

Authorized Signatory

Dr. S. C. Jain
Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	5
Discipline: Chemical						Group: Water						Sub-Group: Ground Water						
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001GW2									
Sample ID: 250225WA02002									Sample Description: GW - Bore well									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2025									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: Bardubhi village																		
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.9
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	1010
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	4.4
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	24
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	732
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	120.2
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	392
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	14
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	120
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	95.6
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	55.9
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	4.8
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	72.4

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn By Deepak Singh & team

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	(Tauqeer Ahmad)	(Dr. S. C. Jain)
	Technical Manager	Director



Test Report

Discipline: Chemical		Group: Water	Sub-Group: Ground Water
Report Issue Date: 28-02-2025		Test Report No.: RN-241115001GW2	
Sample ID: 250225WA02002		Sample Description: GW - Bore well	
Challan No./P.O. No.: N/A		Challan No./ P.No. Date: 15-11-2025	
Issued to: PRABHA ENERGY LTD.(PEL), Jharua CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002			
Type of Industry: Energy		Customer Representative: Mr. Mukesh Raj Mahto	
Sample Drawn by: IEM Team		Sampling Date: 25-02-2025	
Sampling Protocol: CPCB Guideline & IS Method 3025 Series			
Sampling Location: Bardubhi village			
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025	Testing Ended: 28-02-2025

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
15.	Arsenic (as AS)	mg/l	APHA: 3114B.2023	0.01	No Relaxation	BDL(MDL-0.02)
16.	Mercury	mg/l	APHA: 3112B.2023	0.001	No Relaxation	BDL(MDL-0.05)
17.	Fluoride (as F)	mg/l	APHA 4500 D:2017	1.0	1.5	0.33
18.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL(MDL-0.2)
19.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL(MDL-0.2)
20.	Iron	mg/l	APHA 3111 B.2017	1	No Relaxation	0.18
21.	Temperature	°C	APHA 3111 B:2023	--	--	25.3
22.	SAR	mg/l	IEM/ SOP/WATER	0.001	0.002	6.2
23.	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.05	No Relaxation	BDL(MDL-0.001)
24.	Chromium	mg/l	APHA: 3111B.2023	5	15	BDL(MDL-0.2)
25.	Zinc	mg/l	APHA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26.	Nickel	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
27.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.02)
28.	Salinity	--	APHA 2520 B:2023	--	--	4.43
29.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
30.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)
31.	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
32.	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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Reviewed by

Authorized Signatory

T. Ahmad

Dr. S. C. Jain

(Tauqeer Ahmad)

(Dr. S. C. Jain)

Technical Manager

Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	6	1	6
Discipline: Chemical						Group: Water						Sub-Group: Ground Water					
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001GW3								
Sample ID: 250225WA02003									Sample Description: GW - Bore well								
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2025								
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																	
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto								
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025								
Sampling Protocol: CPCB Guideline & IS Method 3025 Series																	
Sampling Location: Garbhudi Anganwadi Kendra																	
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025					

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	7
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	740
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	2.8
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	12
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	532
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	73.7
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	332
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	21
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	105
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	62.5
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	58.8
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	3.8
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	52.8

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn By Deepak Singh & team

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Reviewed by	Authorized Signatory
 (Tauqueer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

Test Report

Discipline: Chemical	Group: Water	Sub-Group: Ground Water
Report Issue Date: 28-02-2025	Test Report No.: RN-241115001GW3	
Sample ID: 250225WA02003	Sample Description: GW - Bore well	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 15-11-2025	
Issued to: PRABHA ENERGY LTD.(PEL), Jharua CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: Mr. Mukesh Raj Mahto	
Sample Drawn by: IEM Team	Sampling Date: 25-02-2025	
Sampling Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: Garbhudi Anganwadi Kendra		
Sample Receiving Date: 25-02-2025	Testing Started: 25-02-2025	Testing Ended: 28-02-2025

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
15.	Arsenic (as AS)	mg/l	APHA: 3114B.2023	0.01	No Relaxation	BDL(MDL-0.02)
16.	Mercury	mg/l	APHA: 3112B.2023	0.001	No Relaxation	BDL(MDL-0.05)
17.	Fluoride (as F)	mg/l	APHA 4500 D:2017	1.0	1.5	0.29
18.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL(MDL-0.2)
19.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL(MDL-0.2)
20.	Iron	mg/l	APHA 3111 B.2017	1	No Relaxation	0.24
21.	Temperature	°C	APHA 3111 B:2023	--	--	25.1
22.	SAR	mg/l	IEM/ SOP/WATER	0.001	0.002	4.4
23.	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.05	No Relaxation	BDL(MDL-0.001)
24.	Chromium	mg/l	APHA: 3111B.2023	5	15	BDL(MDL-0.2)
25.	Zinc	mg/l	APHA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26.	Nickel	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
27.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.02)
28.	Salinity	--	APHA 2520 B:2023	--	--	3.26
29.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
30.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)
31.	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
32.	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

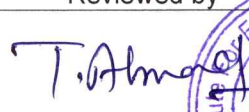
Sample Drawn by: Deepak Singh & team

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Reviewed by Authorized Signatory


(Tauqeer Ahmad)
Technical Manager


(Dr. S. C. Jain)
Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	6	1	7
Discipline: Chemical						Group: Water						Sub-Group: Ground Water					
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001GW4								
Sample ID: 250225WA02004									Sample Description: GW - Bore well								
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2025								
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																	
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto								
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025								
Sampling Protocol: CPCB Guideline & IS Method 3025 Series																	
Sampling Location: Dhobni Market																	
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025					

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.7
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	558
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	5.6
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	28
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	395
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	62.5
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	286
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	18
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	72
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	48.6
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	28.2
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	4.2
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	46.7

----END Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn By Deepak Singh & team

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Reviewed by

Authorized Signatory


(Tauqeer Ahmad)
Technical Manager


(Dr. S. C. Jain)
Director



Test Report

Test Report

Discipline: Chemical		Group: Water		Sub-Group: Ground Water	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001GW4		
Sample ID: 250225WA02004			Sample Description: GW - Bore well		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2025		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 25-02-2025		
Sampling Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: Dhobni Market					
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
15.	Arsenic (as AS)	mg/l	APHA: 3114B.2023	0.01	No Relaxation	BDL(MDL-0.02)
16.	Mercury	mg/l	APHA: 3112B.2023	0.001	No Relaxation	BDL(MDL-0.05)
17.	Fluoride (as F)	mg/l	APHA 4500 D:2017	1.0	1.5	0.22
18.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL(MDL-0.2)
19.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL(MDL-0.2)
20.	Iron	mg/l	APHA 3111 B.2017	1	No Relaxation	0.32
21.	Temperature	°C	APHA 3111 B:2023	--	--	25.1
22.	SAR	mg/l	IEM/ SOP/WATER	0.001	0.002	3.6
23.	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.05	No Relaxation	BDL(MDL-0.001)
24.	Chromium	mg/l	APHA: 3111B.2023	5	15	BDL(MDL-0.2)
25.	Zinc	mg/l	APHA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26.	Nickel	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
27.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.02)
28.	Salinity	--	APHA 2520 B:2023	--	--	2.45
29.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
30.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)
31.	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
32.	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

----END Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500:2012 (-- Indicates not mentioned in IS 10500:2012).
Remark	Sample Comply with prescribed specification.

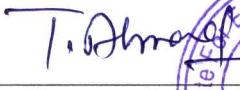
Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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Reviewed by	Authorized Signatory
 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	1
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Stack Emission						
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001S01									
Sample ID: 250225AP04001									Sample Description: DG Set Stack Emission									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2024									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270																		
Field Meteorological Information					A. Temp. (°C): 26			R.H. (%): 68			W.C.: Partly Sunny				W.D.: NE to SW			
Sample Receiving Date: 25-02-2025					Testing Started: 25-02-2025						Testing Ended: 28-02-2025							

General Physical Information

Stack Identification	CPP Office Campus(25 KVA) Moonidih	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.024
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3 L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	-----
Flue Gas Temperature (K): 405		Flue Gas Velocity (m/s): 16.8	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 19.5

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	≤0.3	0.21
2.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	g/kw-hr	--	0.30
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	≤3.5	0.40

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--'Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Reviewed by

Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)
Technical Manager

(Dr. S. C. Jain)
Director



Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001S01		
Sample ID: 250225AP04001			Sample Description: DG Set Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2024		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 25-02-2025		
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270					
Field Meteorological Information		A. Temp. (°C): 26	R.H. (%): 68	W.C.: Partly Sunny	W.D.: NE to SW
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

General Physical Information

Stack Identification	CPP Office Campus(25 KVA) Moonidih	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.024
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3 L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	----
Flue Gas Temperature (K): 405	Flue Gas Velocity (m/s): 16.8	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 19.5	

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	---	0.36
5.	Smoke Limit	IEM/SOP/AIR	m-1	≤0.7	<1

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--' Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Reviewed by	Authorized Signatory
	
(Tauqeer Ahmad)	(Dr. S. C. Jain)
Technical Manager	Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	2
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Stack Emission						
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001S02									
Sample ID: 250225AP04002									Sample Description: DG Set Stack Emission									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2024									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270																		
Field Meteorological Information					A. Temp. (°C): 26			R.H. (%): 68			W.C.: Partly Sunny				W.D.: NE to SW			
Sample Receiving Date: 25-02-2025					Testing Started: 25-02-2025						Testing Ended: 28-02-2025							

General Physical Information

Stack Identification	Project Site DG stack-1(25 KVA)	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.024
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	-----
Flue Gas Temperature (K): 397		Flue Gas Velocity (m/s): 17.2	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 20.3

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	≤0.3	0.27
2.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	g/kw-hr	--	0.41
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	≤3.5	0.74

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--'Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Reviewed by	Authorized Signatory
(Tauqeer Ahmad)	(Dr. S. C. Jain)
Technical Manager	Director

Corporate office - A-8, Modi Heights, Opp. All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001



Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001S02		
Sample ID: 250225AP04002			Sample Description: DG Set Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2024		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 25-02-2025		
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270					
Field Meteorological Information		A. Temp. (°C): 26	R.H. (%): 68	W.C.: Partly Sunny	W.D.: NE to SW
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

General Physical Information

Stack Identification	Project Site DG stack-1(25 KVA)	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.024
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	-----
Flue Gas Temperature (K): 397	Flue Gas Velocity (m/s): 17.2	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 20.3	

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	---	0.38
5.	Smoke Limit	IEM/SOP/AIR	m-1	≤0.7	<1

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--' Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

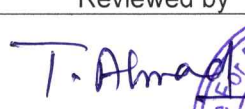
Sample Drawn By: Deepak Singh & Team

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Reviewed by

Authorized Signatory

 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	3
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Stack Emission						
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001S03									
Sample ID: 250225AP04003									Sample Description: DG Set Stack Emission									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2024									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270																		
Field Meteorological Information					A. Temp. (°C): 26			R.H. (%): 68			W.C.: Partly Sunny				W.D.: NE to SW			
Sample Receiving Date: 25-02-2025					Testing Started: 25-02-2025						Testing Ended: 28-02-2025							

General Physical Information

Stack Identification	Project Site DG stack-2(25 KVA)	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.08
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	----
Flue Gas Temperature (K): 413		Flue Gas Velocity (m/s): 16.1	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 203.7

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	≤0.3	0.24
2.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	g/kw-hr	--	0.08
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	≤3.5	0.70

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--'Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Corporate office - A-8, Modi Heights, Opp. All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001

Page 1 of 2

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com

Reviewed by	Authorized Signatory
(Tauqeer Ahmad)	(Dr. S. C. Jain)
Technical Manager,	Director



Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001S03		
Sample ID: 250225AP04003			Sample Description: DG Set Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2024		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 25-02-2025		
Sampling Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series & IS 13270					
Field Meteorological Information		A. Temp. (°C): 26	R.H. (%): 68	W.C.: Partly Sunny	W.D.: NE to SW
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

General Physical Information

Stack Identification	Project Site DG stack-2(25 KVA)	Stack Height from Ground Level (m)	1.9
Emission Due to	Combustion of diesel	Port Hole Height from Ground Level (m)	1.9
Plat Form	Temporary	Inner Dimension of Stack (m)	0.08
Stack Description	Single	Type of Fuel Used	Diesel
Shape of Stack	Circular	Quantity of Fuel	3L/hr
Construction Material	MS	DG Capacity	25 KVA
Sampling Port	Available	Pollution Control Device (if any)	-----
Flue Gas Temperature (K): 413	Flue Gas Velocity (m/s): 16.1	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 203.7	

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Norms**	Result
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	---	0.33
5.	Smoke Limit	IEM/SOP/AIR	m-1	≤0.7	<1

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is specified	System And Procedure For Compliance To Revised Emission Standards (Dated: 03/11/2022)'--' Indicates Not Mentioned In CPCB Guidelines.
Remark	---

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Reviewed by

Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)

S. C. Jain
(Dr. S. C. Jain)

Technical Manager

Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	0
Discipline: Chemical			Group: Atmospheric Pollution								Sub-Group: Ambient Noise Levels							
Report Issue Date: 28-02-2025										Test Report No.: RN-241115001N								
Sample ID: 250225AP02001										Sample Description: Ambient Noise								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 15-11-2024								
Issued to: PRABHA ENERGY LTD.(PEL), Jharria CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: Mr. Mukesh Raj Mahto								
Sample Drawn by: IEM Team										Sampling Date: 24-02-2025 to 25-02-2025								
Sampling Protocol: CPCB Guideline & IS Method 9989:1981																		
Sampling Location: CPP Office Campus Monidih																		
Field Meteorological Information			A. Temp. (°C): 25			R.H. (%): 65			W.C.: Sunny			W.D.: NW to SE						

----Test Result----

Sl. No.	Parameter	Method	Unit	Results	Day	Night	Norms**
1.	Equivalent Sound Level (Leq)	IS 9989:1981 dB(A)		L _{eq}	48.1	45.8	Day – 75 & Night - 70
2.				L _{MIN}	32.8	30.5	--
3.				L _{MAX}	53.4	51.1	
4.				L ₉₀	35.6	33.3	
5.				L ₅₀	42.2	39.9	
6.				L ₁₀	49.2	46.9	

----End Of Reports----

Note: -

- Day time shall mean from 6.00 a.m. to 10.00 p.m.
- Night time shall mean from 10.00 p.m. to 6.00 a.m.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- A "decibel" is a unit in which noise is measured. "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- Leq: It is an energy mean of the noise level, over a specified period.

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per Noise Pollution (Regulation and Control) Rules - 2000 ,(-- Indicates not mentioned in CPCB.)
Remark	Sample Comply with Prescribed Specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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Reviewed by	Authorized Signatory
(Tauqeer Ahmad)	Dr. S. C. Jain
Technical Manager	Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	8
Discipline: Chemical						Group: Water						Sub-Group: Surface Water						
Report Issue Date: 28-02-2025									Test Report No.: RN- 241115001SW1									
Sample ID: 250225WA01001									Sample Description: Surface Water - Pond									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2025									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: IS 17614 (Part-1)-2025																		
Sampling Location: karitand village pond																		
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025						

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	--	IS 3025 (Part-11)	6.5 - 8.5	6.9
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	620
3.	Colour	Hazen	IS 3025 (Part-04)	--	5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	3.0	12.8
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	32
6.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	442
7.	Calcium (as Ca ²⁺)	mg/l	IS 3025 (Part-40)	--	64.9
8.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	31
9.	Sodium	mg/l	IS 3025 (Part-45)	--	38.6
10.	Chloride (as Cl ⁻)	mg/l	IS 3025 (Part-32)	--	42
11.	Sulphate (as SO ₄ ⁻²)	mg/l	IS 3025 (Part-24)	--	21
12.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2017	--	11.7
13.	Free Residual Chlorine	mg/l	IS 3025 (Part-26)	--	BDL(MDL-0.07)
14.	P Alkalinity	mg/l	IS 3025 (Part-23)	--	0
15.	M Alkalinity	mg/l	IS 3025 (Part-23)	--	368

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	Designated best use water quality criteria for outdoor bathing (organised), (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization

Reviewed by	Authorized Signatory
 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

Discipline: Chemical	Group: Water	Sub-Group: Surface Water
Report Issue Date: 28-02-2025	Test Report No.: RN- 241115001SW1	
Sample ID: 250225WA01001	Sample Description: Surface Water - Pond	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 15-11-2025	
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: Mr. Mukesh Raj Mahto	
Sample Drawn by: IEM Team	Sampling Date: 25-02-2025	
Sampling Protocol: IS 17614 (Part-1)-2025		
Sampling Location: karitand village pond		
Sample Receiving Date: 25-02-2025	Testing Started: 25-02-2025	Testing Ended: 28-02-2025

----Test Result----

Sl. No.	Tested Parameter	Unit	Method No.	Limit	Results
16.	Temperature	°C	APHA 3111 B:2023	--	27.1
17.	Cadmium	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.02)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	6.2
19.	Copper	mg/l	APHA 3111 B.2017	--	BDL (MDL – 0.01)
20.	Chromium	mg/l	APHA 3111 B.2017	--	BDL (MDL – 0.02)
21.	Lead	mg/l	APHA 3111 B.2017	--	BDL(MDL-0.2)
22.	Zinc	mg/l	APHA 3111 B.2017	--	BDL(MDL-0.2)
23.	Mercury	mg/l	APHA 3112 C.2017	--	BDL(MDL-0.05)
24.	Arsenic	mg/l	APHA 3114 C.2017	--	BDL(MDL-0.02)
25.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)
26.	Iron	mg/l	APHA 3111 B.2017	--	2.8
27.	Salinity	mg/l	APHA 2520 B:2023	--	2.64
28.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
29.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	BDL(MDL-0.1)
30.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
31.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	BDL(MDL-0.02)
32.	Total Kjeldahl Nitrogen	mg/l	IS 3025 (Part-34)	--	8.2

----END Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	Designated best use water quality criteria for outdoor bathing (organised), (-- Indicates not mentioned in CPCB guidelines).
Remark	N/A

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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Reviewed by	Authorized Signatory
 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
Technical Manager	Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	1	9
Discipline: Chemical						Group: Water						Sub-Group: Surface Water						
Report Issue Date: 28-02-2025									Test Report No.: RN- 241115001SW2									
Sample ID: 250225WA01002									Sample Description: Surface Water - Pond									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2025									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 25-02-2025									
Sampling Protocol: IS 17614 (Part-1)-2025																		
Sampling Location: Suraidaha Village Pond																		
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025						

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	--	IS 3025 (Part-11)	6.5 - 8.5	7.4
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	912
3.	Colour	Hazen	IS 3025 (Part-04)	--	5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	3.0	13.3
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	36
6.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	660
7.	Calcium (as Ca ²⁺)	mg/l	IS 3025 (Part-40)	--	59.3
8.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	25
9.	Sodium	mg/l	IS 3025 (Part-45)	--	170.5
10.	Chloride (as Cl ⁻)	mg/l	IS 3025 (Part-32)	--	72
11.	Sulphate (as SO ₄ ⁻²)	mg/l	IS 3025 (Part-24)	--	24
12.	Magnesium (as Mg)	mg/l	APHA 3500 Mg B. 2017	--	32.1
13.	Free Residual Chlorine	mg/l	IS 3025 (Part-26)	--	BDL(MDL-0.07)
14.	P Alkalinity	mg/l	IS 3025 (Part-23)	--	0
15.	M Alkalinity	mg/l	IS 3025 (Part-23)	--	448

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	Designated best use water quality criteria for outdoor bathing (organised), (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

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Reviewed by

Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)

S. C. Jain
(Dr. S. C. Jain)

Technical Manager

Director

Corporate Office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001



Test Report

Discipline: Chemical		Group: Water		Sub-Group: Surface Water	
Report Issue Date: 28-02-2025			Test Report No.: RN- 241115001SW2		
Sample ID: 250225WA01002			Sample Description: Surface Water - Pond		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2025		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 25-02-2025		
Sampling Protocol: IS 17614 (Part-1)-2025					
Sampling Location: Suraidaha Village Pond					
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

---Test Result---

Sl. No.	Tested Parameter	Unit	Method No.	Limit	Results
16.	Temperature	°C	APHA 3111 B:2023	--	26.8
17.	Cadmium	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.02)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	5.4
19.	Copper	mg/l	APHA 3111 B.2017	--	BDL (MDL – 0.01)
20.	Chromium	mg/l	APHA 3111 B.2017	--	BDL (MDL – 0.02)
21.	Lead	mg/l	APHA 3111 B.2017	--	BDL(MDL-0.2)
22.	Zinc	mg/l	APHA 3111 B.2017	--	BDL(MDL-0.2)
23.	Mercury	mg/l	APHA 3112 C.2017	--	BDL(MDL-0.05)
24.	Arsenic	mg/l	APHA 3114 C.2017	--	BDL(MDL-0.02)
25.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)
26.	Iron	mg/l	APHA 3111 B.2017	--	2.2
27.	Salinity	mg/l	APHA 2520 B:2023	--	3.9
28.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
29.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	BDL(MDL-0.1)
30.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
31.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	BDL(MDL-0.02)
32.	Total Kjeldahl Nitrogen	mg/l	IS 3025 (Part-34)	--	10.8

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Limit is Specified	Designated best use water quality criteria for outdoor bathing (organised), (-- Indicates not mentioned in CPCB guidelines).
Remark	N/A

Tested By: Yashomati Kumari & Mahendranath Mahato

Sample Drawn by: Deepak Singh & team

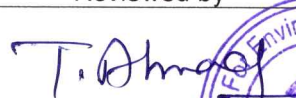
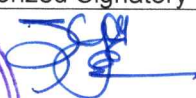
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On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by

Authorized Signatory

 (Tauqeer Ahmad) Technical Manager	 (Dr. S. C. Jain) Director
--	---



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	6	0	8
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Ambient Air					
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001A01								
Sample ID: 250225AP01001									Sample Description: Ambient Air								
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2024								
Issued to: PRABHA ENERGY LTD.(PEL), Jharlia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																	
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto								
Sample Drawn by: IEM Team									Sampling Date: 24-02-2025 to 25-02-2025								
Sampling Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																	
Sampling Location: karitand Near Hari mandir																	
Field Meteorological Information					A. Temp. (°C): 25			R.H. (%): 65			W.C.: Sunny			W.D.: NW to SE			
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025					

---Test Results---

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	67.5
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	29.3
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	19.4
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	41.8
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	23.6
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	180	19.7
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m ³	----	BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m ³	1.0	0.04
9.	Nickel (Ni)	IS 5182 Part 26	ng/m ³	----	BDL (MDL-4)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009, (-- Indicates) norms will be applicable annually after collection of minimum 104 measurements in a year at a particular site .
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh & Sanjay Kumar

Sample Drawn By: Deepak Singh & Team

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	(Tauqeer Ahmad)	(Dr. S. C. Jain)
	Technical Manager	Director



Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Ambient Air	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001A01		
Sample ID: 250225AP01001			Sample Description: Ambient Air		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2024		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 24-02-2025 to 25-02-2025		
Sampling Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series					
Sampling Location: karitand Near Hari mandir					
Field Meteorological Information		A. Temp. (°C): 25	R.H. (%): 65	W.C.: Sunny	W.D.: NW to SE
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m ³	----	BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³	0.2 (8hrs)	BDL(MDL-1.8)
12.	BENZENE (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	----	BDL (MDL- 0.06)

----End of Report----

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009, (-- Indicates) norms will be applicable annually after collection of minimum 104 measurements in a year at a particular site .
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh & Sanjay Kumar

Sample Drawn By: Deepak Singh & Team

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Reviewed by

Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)

Technical Manager

Dr. S. C. Jain

Director



Test Report

ULR No.:	T	C	1	5	2	9	2	2	5	0	0	0	0	0	0	6	0	9
Discipline: Chemical						Group: Atmospheric Pollution						Sub-Group: Ambient Air						
Report Issue Date: 28-02-2025									Test Report No.: RN-241115001A02									
Sample ID: 250225AP01002									Sample Description: Ambient Air									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 15-11-2024									
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy									Customer Representative: Mr. Mukesh Raj Mahto									
Sample Drawn by: IEM Team									Sampling Date: 24-02-2025 to 25-02-2025									
Sampling Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																		
Sampling Location: Bardubhi Village																		
Field Meteorological Information					A. Temp. (°C): 25			R.H. (%): 65			W.C.: Sunny			W.D.: NW to SE				
Sample Receiving Date: 25-02-2025						Testing Started: 25-02-2025						Testing Ended: 28-02-2025						

----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	61.7
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	24.3
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	21.5
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	44.2
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	32.6
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	180	20.0
7.	Arsenic (as As)	USEPA I.O. 3.2	ng/m ³	----	BDL (MDL-2)
8.	Lead (as Pb)	IS 5182 Part 22	µg/m ³	1.0	0.05
9.	Nickel (Ni)	IS 5182 Part 26	ng/m ³	----	BDL (MDL-4)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009, (-- Indicates) norms will be applicable annually after collection of minimum 104 measurements in a year at a particular site .
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh & Sanjay Kumar

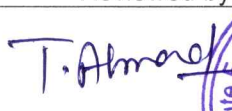
Sample Drawn By: Deepak Singh & Team

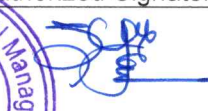
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Reviewed by Authorized Signatory


(Tauqeer Ahmar)
Technical Manager


(Dr. S. C. Jain)
Director



Test Report

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Ambient Air	
Report Issue Date: 28-02-2025			Test Report No.: RN-241115001A02		
Sample ID: 250225AP01002			Sample Description: Ambient Air		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 15-11-2024		
Issued to: PRABHA ENERGY LTD.(PEL), Jharia CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002					
Type of Industry: Energy			Customer Representative: Mr. Mukesh Raj Mahto		
Sample Drawn by: IEM Team			Sampling Date: 24-02-2025 to 25-02-2025		
Sampling Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series					
Sampling Location: Bardubhi Village					
Field Meteorological Information		A. Temp. (°C): 25	R.H. (%): 65	W.C.: Sunny	W.D.: NW to SE
Sample Receiving Date: 25-02-2025		Testing Started: 25-02-2025		Testing Ended: 28-02-2025	

----Test Results----

Sl.No.	Parameters	Test Method No.	Unit	Norms**	Results
10.	Benzo (a) Pyrene (BaP) Particulate phase only	IS 5182 Part 12	ng/m ³	----	BDL (MDL-0.18)
11.	Carbon Monoxide (CO)	IEM/SOP/Air-01:2022	mg/m ³	0.2 (8hrs)	BDL(MDL-1.8)
12.	BENZENE (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	----	BDL (MDL- 0.06)

----End of Report----

Env.Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009, (-- Indicates) norms will be applicable annually after collection of minimum 104 measurements in a year at a particular site .
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh & Sanjay Kumar

Sample Drawn By: Deepak Singh & Team

Specific Contractual Notes: -

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Reviewed by

Authorized Signatory


(Tauqeer Ahmad)
Technical Manager


(Dr. S. C. Jain)
Director





Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Source Noise Level
Report Issue Date: 28-02-2025	Test Report No.: RN-24115001SNL	
Sample ID: 250225AP03001	Sample Description: DG Noise	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 15-11-2024	
Issued to: PRABHA ENERGY LTD.(PEL), Jharua CBM-Block-I 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: Mr. Mukesh Raj Mahto	
Sample Drawn by: IEM Team	Sampling Date: 25-02-2025	
Sampling Protocol: CPCB Guideline & IS Method 9989:1981		
Sampling Location: Project Site JCH#1 Dhobni		
Field Meteorological Information	A. Temp. (°C): 26	R.H. (%): 69
	W.C.: Sunny	W.D.: NW to SE
Sample Receiving Date: 25-02-2025	Testing Started: 25-02-2025	Testing Ended: 28-02-2025

----Test Result----

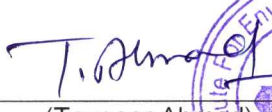
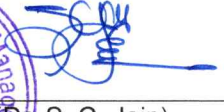
Sl. No.	Sampling Location	Sampling Point	Condition	Acoustic Enclosure	Norms**	Result	Incineration Loss [Min.- 25 dB(A)]
1.	Project Site JCH#1 Dhobni	1 meter from Enclosure Surface	OFF	Yes	--	52.4	24.9dB(A)
2.	Project Site JCH#1 Dhobni		ON (Enclosure open)	Yes	--	87.8	
3.	Project Site JCH#1 Dhobni		ON (Enclosure Closed)	Yes	75 dB(A)	62.9	

----End Of Reports----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per MoEFCC Notification GSR 371(E), Dated 17th May 2002,(-- Indicates not mentioned in CPCB.)
Remark	Sample Comply with Prescribed Specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Deepak Singh & Team

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	 (Tauqeer Ahmad)	 (Dr. S. C. Jain)
	Technical Manager	Director