



Prabha
Energy
Limited



NORTH KARANPURA CBM PROJECT
(CONSORTIUM OF ONGC, IOCL AND PEL)

PEL/NKCBM/HSE/MOEFCC/2026/03

6th October 2026

To,
The Regional Director,
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, (New Building of Jharkhand Rajya Awaas Board),
Harmu, Ranchi, Jharkhand-834002

Subject: Submission of Six Monthly Compliance Status Report of Environment Clearance for "Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand" for the period of April-2026 to September-2026.

Ref: F.No. J-11011/228/2012-IAII (I) dated 12th May 2015

Respected Sir/Madam,

Greetings from Prabha Energy Limited!!

We are pleased to submit the six-monthly compliance status report w.r.t. the **General Conditions (S.No.-12)** of Environment Clearance, **F.No. J-11011/228/2012-IAII (I) dated 12th May 2015** and its extended dated **08th September 2025**.

This is for your kind information and records.

For Prabha Energy Limited,

Warm Regards,


(Dr S.K. Singh)
(Sr. VP-Operations)



Enclosure: Six Monthly Compliance with Annexure I, II, III, IV, V for the period of April-26 to September-26.

Copy to:

1. The Member Secretary, Jharkhand State Pollution Control Board, T.A Division Building, HEC Complex, Dhurva, Ranchi - 834004
2. Scientist 'E' & Incharge, Zonal Office Kolkata, Central Pollution Control Board, Southern Enclave, Block 502, 5th & 6th Floor, 1582 - Rajdanga Main Road, Kolkata - 700107

PRABHA ENERGY LIMITED (CONSORTIUM JOINT OPERATOR)

Ranchi Office: 4th Floor, Rishab Complex, Opp Ashoknagar Road No 4, Landmark: Above Bank of India, Ranchi - 834 002

Regd. Office: 12 A, Abhishree Corporate Park, Opp. Swagat BRTS Bus Stop, Ambli - Bopal Road, Ambli, Ahmedabad - 380 058

Tel: 02717 - 488611 | **Email:** info@prabhaenergy.com | **Web:** www.prabhaenergy.com | **CIN:** L40102GJ2009PLC057716

EC Compliance Report - Development of North Karanpura Coalbed Methane (CBM) Block (NK-CBM-2001/1) of ONGC/PEPL/IOCL Located in Hazaribagh District of Jharkhand State		
Name of the Project: Development of North Karanpura Coalbed Methane (CBM) Block NK-CBM-2001/1 Environmental Clearance Letter : J-11011/228/2012-IAII (I) Dated 12th May 2015 and extended date 08th September 2025 from MoEFCC Period of Compliance Report: Six monthly compliance report for the period 1st April 2026 to 30th September 2026		
SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions		
Page - 1		
1	Compensation for the land acquisition to the land owners, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.	Land is being acquired through proper procedure and applicable laws through district administration. Since only small patches of land are required, the land acquisition process does not cause any displacement and therefore no RR is required.
2	The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.	Surface facilities are under installation as per the OMR 2017 and OISD codes and standards and international practices.
3	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the ministry vide GSR NO 826(E) dated 16th November 2009 for PM10, PM2.5, SO2, NOX, CO, CH4, VOCs, HC, Non-Methane HC etc. Efforts shall be made to improve the ambient air quality of the area.	Air quality monitoring has been carried out for Six Monthly Compliance. Previous reports were also shared with JSPCB and MoEFCC. Reports of AAQ for this period is enclosed as Annexure-1, where all the monitored parameters found within the stipulated limit. All Efforts to improve the AAQ of the area is implemented through green belt development, water sprinkling and schedule maintenance of the equipments.
4	The flare shall be designed as per good oilfield practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the fire pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emission from stacks shall meet the MoEF/CPCB guidelines.	The overhead flaring system has been installed as per OISD Standards/Guidelines in central gas facility i.e. Gas Collection Stations (GCS). Fire-fighting equipments are provided at the site as per the provisions of OISD-189 and OMR 2017. Soil remediation is not required as there is no oil spillages associated with CBM gas extraction.



Conditions/ Guide lines

SNo.

Specific Conditions (Contd.)

5	The company shall make the arrangement for control of noise from drilling activity and DG/GG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG/GG sets and meet the norms notified by the MoEFCC. Height of all the stacks/vents shall be as per the CPCB guidelines.	• M/S IEM, a NABL accredited laboratory, has been engaged for periodic/quarterly noise monitoring. Results of noise monitoring for this quarter are given in Annexure-2. • Gas Generator Sets are in used confirming to CPCB guidelines of acoustic enclosure and providing of adequate stack height. • Ambient noise level monitoring by collecting samples is conducted both during day and night time in accordance to the schedule and levels are within the permissible limits as per Noise Rules and Regulations.
6	The company shall comply with the guidelines for disposal for solid waste, drill cuttings and drilling fluids for onshore drilling operation notified vide GSR, 546(E) dated 30th August 2005.	Complied with. • Drill cuttings (non-toxic and do not carry any oil traces) and drilling fluids (nonhazardous "Water Base Mud") are collected in HDPE lined pit at site. • 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.
7	Total fresh water requirement shall not exceed (25 cum/day) for each well during drilling phase and prior permission shall be obtained from the competent authority and a copy submitted to the Ministry's Regional office at Bhubaneswar/Ranchi.	During 1st April 2026 to 30th September 2026 any drilling activity do not carry out in the Block.
8	During well drilling waste water shall be segregated into waste drilling fluid and drill cuttings. Drill cuttings shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be disposed off through septic tank followed by soak pit.	During 1st April 2026 to 30th September 2026 any drilling activity do not carry out in the Block.



EC COMPLIANCES - NK-CBM-2001/1		Status of Compliance	
SNo.	Conditions/ Guide lines		
Specific Conditions (Contd.)			
9	Ground water monitoring shall be done to assess if produced water storage or disposal has any effect.	Ground water is being regularly monitored by NABL accredited laboratory to ensure that the produced water storage or disposal has no effect on it. Reports of Ground Water are attached as Annexure-3.	
10	Drilling waste water including drill cuttings, wash water shall be collected in disposal pits lined with HDPE lining, evaporated or treated and shall comply with the notified standards for onshore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bhubaneswar.	• Drilling wastewater (based on non-hazardous "Water Base Mud") including drill cuttings (non-toxic) are collected in onsite impervious HDPE lined pit and naturally evaporated. • However, Drilling operations in North Karanpura CBM Block had been suspended from 1st April 2026 to 30th September 2026 due to future planning and preparations. • Effluent water analysis reports are given in Annexure-4. • The analysis report shows that the drill cuttings and waste water complies with the standards set forth in "Standards for Onland Disposal"	
11	Only water based drilling mud shall be used. The drilling mud shall be recycled. Hazardous waste shall be disposed of as per Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers/re-processors.	In CBM drilling process, only water based drilling mud (WBM) is used. The used mud is recycled for further drilling operations. No Hazardous wastes are generated in the process as no hazardous chemical is being used in CBM drilling process. However, water is recycled for drilling process.	
12	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At places 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 NK CBM Block 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. • Overhead flaring of sufficient height will be provided at central facility station i.e. GGS when where GGS will be constructed.	
13	To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH ₄ and H ₂ S shall be provided.	There is no chance of ingress of ambient air, as the well is installed with drive head and operational through Progressive Cavity Pump. Proper Risk analysis is always done with Portable type multi gas detector is present for the detection of CH ₄ , H ₂ S, O ₂ and CO. However in CBM, there is absolutely no chance of H ₂ S emission as it is not present in coal seams.	



SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions (Contd.)		
14	The design, material of construction, assembly, inspection, testing and safety aspect of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B 31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casing at rails, major road crossing should be in conformity with ANSI/ASME requirement.	As production has been started from 7 wells of the southern part of the NK Block and pipeline laying for inter well connection is commenced. There is no river crossing, casings at rails, major road crossing. Complied as suggested.
15	The company should develop a contingency plan for H ₂ S release 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. All workforce is ensured with the standard Personal Protective Equipments (PPEs) in line.
16	Adequate well protection system shall be provided like blow out preventer (BOP) or diverter systems as required based on the geological formation of the blocks.	Blow Out Preventer (BOP) or Diverter system is adopted at the well head during drilling operation. Additionally other well control measures have been adopted, including through pre-well planning and drilling fluid logging to maintain appropriate hydrostatic pressure and ensure well safety.
17	The top soil removed shall be stacked separately for reuse during restoration process.	• Top soil is not removed during any activity of CBM exploration in North Karanpura CBM block.
18	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.	Emergency Response Plan of NK Block has been prepared on the basis of guidelines given by OMR-2017, OISD-227 and Govt of India.
19	Project proponent shall comply with the environment protection measures and safeguards recommendation in the EIA/EMP/risk analysis report/disaster management plan.	Environmental protection measures and safeguards recommended in EMP / Risk Analysis / Disaster Management Plan/ Crisis Management Plan are being implemented and maintained during the Project and Operations stages. Recommendations mentioned in these plans are followed and practiced through periodic drills.



EC COMPLIANCES - NK-CBM-2001/1			Page - 5
SNo.	Conditions/ Guide lines	Status of Compliance	
Specific Conditions (Contd.)			
20	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Shall be followed as suggested	
21	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	During joining, employees are undergone with preemployment medical examination. The occupational health surveillance is conducted in periodic intervals as stipulated by Directorate General of Mine Safety (DGMS) under Mine Rule 29 B (Form – O).	
22	All the commitments made to the public during the public hearing / public Consultation meeting held on 25.02.2014 for Chatra District and on 26.02.2014 for Hazaribagh District shall be satisfactorily implemented.	The commitments made during public hearing are being implemented by- 1) Providing jobs to local villagers. 2) Given Civil work to Local Contractors. 3) Repairing of roads and culverts for Locals.	
23	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	• 5% of the total cost of the project shall be spent on CSR activities over the life of the project. • CSR plans in NK CBM Block always covers the promotion of education, medical facilities, road development, skill development of local people.	



General Conditions		Status of Compliance	
S.NO.	Conditions/ Guide lines		
1	The project authorities must strictly adhere to stipulation made by the Jharkhand State Pollution Control Board (JSPCB), State Government and any other statutory authority.	In NK CBM Block, all stipulations made by JSPCB and other statutory authorities are strictly adhered to.	
2	No further expansion or modification in the plant shall be carried out without prior approval of the ministry of Environment and Forests. In case of deviation 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 condition imposed and to add additional environmental protection measures required, if any.	So far, no expansion or modification is carried out for NK Block. Prior approval will be obtained in case of any modification in the project proposal.	
3	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 is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	GGS is planned to be set up. After setting up of GGS, the locations of ambient air quality monitoring stations will be made/decided in consultation with the State Pollution Control Board (SPCB). It is ensured that at least one station will be installed in the upwind & downwind direction as well as where maximum ground level concentration will anticipate.	
4	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, 1969 viz. 75 dBA(day time) and 70 dBA (night time).	The overall noise levels in and around the plant area are well within the standards. The Monitoring of Noise is carried out on quarterly basis by NABL accredited laboratory and reports are enclosed as Annexure-2.	
5	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling chemicals shall be imparted.	Training programs are integral part of our project execution plan. Training like fire drill, safety meetings & MVT are properly held on site on monthly/quarterly basis.	
6	The company shall also comply with all the environment protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environment management, risk mitigation measures and public hearing relating to the project shall be implemented.	The company is complying with all the environment protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environment management, risk mitigation measures and public hearing relating to the project are being implemented. NK Project specific HSE Manual, Disaster Management Plan, Crisis Management Plan, Contingency Plan and Emergency Response Plan is prepared and available at site. Recommendations made therein are usually practiced through mock drills.	

EC COMPLIANCES - NK-CBM-2001/1		Page - 7
SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions (Contd.)		
7	The company shall undertake all relevant measures for improving the socio-economic condition of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	• Separate fund is fixed for CSR activities • CSR activities was undertaken by involving local villages and administration.
8	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Proper Plantation and waste disposal techniques are implementing in project so that eco-development can be done.
9	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring function.	• A separate Environment Management Cell has been set up to carry out the EMP and Monitoring functions when the Gas Collection Stations (GCS) will be established. • A reputed NABL laboratory has been hired to carry out periodic monitoring of all environmental parameters.
10	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environmental and Forests as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management/pollution control measures shall not be diverted for any other purpose.	• Sufficient fund is earmarked to implement the MoEFCC as well as State Government stipulated conditions and it will be available whenever required.
11	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/ representation, if any, were received while processing the proposal.	Copy of the clearance letter has been given to all concerned and provided in Annexure-5.



SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions (Contd.)		
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated Environmental clearance conditions including results of the monitored data(both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the company.	• Six Monthly Compliances of Environmental clearance is being submitted to JSPCB and MoEFCC on regular basis. • Copies of the EC and six monthly compliance reports are uploaded on the web site of PEL at www.prabhaenergy.com
13	The environmental statement for each financial year ending 31st 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 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 MoEF by e-mail.	Form - V for financial year ending 31st March 2026 was submitted to the JSPCB and Regional office of MoEFCC at Ranchi. Copy is enclosed in Annexure-6. The earlier Environmental Statements have been uploaded on the web site of PEL, which can be accessed at www.prabhaenergy.com
14	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and the copy of the clearance by the ministry and the copies of the clearance letter are available with the SPCB/Committees and may also be seen at website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of Ministry.	• Local people were informed that the project has been accorded environmental clearance by the Ministry by advertising in local papers. • The EC order is available on the website of the Ministry, ONGC and PEL.
15	The project authorities shall inform the regional office as well as the ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	• The project Field Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012 • Partially project has been started on 07-06-2018 and Production has been started on 16-05-2025 from 7 wells of the southern part out of 74 Wells of the NK Block .





INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-10135

Annexure I

TEST REPORT

U/LR No.:	T	C	1	6	1	3	5	2	6	0	0	0	2	6	5	0	P									
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Air																	
Report Issue Date: 19-09-2026									Test Report No.: RN-260914002A01																	
Sample ID: 260917AP03001									Sample Description: Ambient Air																	
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 14-09-2026																	
Name and Contact Details of Customer: P & C Dept.																										
Email id - pne.ranchi@prabhaenergy.com																										
Prabha Energy Ltd.(PEL), NK CBM Block,																										
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																										
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																										
Information obtained from customer (if any):																										
Type of Industry: Energy									Condition of Sample: Fit For Test																	
Sampling Protocol: IS:5182									Sampling Date: 16-09-2026 to 17-09-2026																	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																										
Sampling Location: NK # 40																										
Field Meteorological Information																										
A. Temp. (°C): 28						R.H. (%): 57						W.C.: Partly Sunny						W.D.: SE to NW								
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																										
Sample Receiving date: 17-09-2026									Testing Started: 17-09-2026									Testing Ended: 19-09-2026								

----Test Results----

SLNo.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	67.3
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	33.8
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	20.5
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	31.7
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	37.4
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	24.9
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

Specific Contractual Notes -

- The laboratory accepts responsibility for content of this report.
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- Total liability of Institute for Environmental Management will be limited to invoiced amount only.
- In case of feedback/ complaints, please send an email at iem2012@rediffmail.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

(Shubham Pushy)

S. C. Jain

Dy. Technical Manager

Director

----End of Report----

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002A01	
Sample ID: 260917AP03001	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block , 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 16-09-2026 to 17-09-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 40		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

---Test Results---

SLNo.	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	02	BDL(MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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- In case of feedback/ complaints, please send an email at sti@iemeco2@gmail.com

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

Reviewed by _____ Authorized Signatory

(Shubham P Singh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Ranchi-834002, Jharkhand, India

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



TC-18135

TEST REPORT

ULR No.:	T	C	1	6	1	3	3	2	6	0	0	0	0	2	6	3	1	F
Discipline: Chemical			Group: Atmospheric Pollution										Sub-Group: Ambient Air					
Report Issue Date: 19-09-2026										Test Report No.: RN-260914002A02								
Sample ID: 260917AP03002										Sample Description: Ambient Air								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 14-09-2026								
Name and Contact Details of Customer: P & C Dept.																		
Email id:- pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any):																		
Type of Industry: Energy										Condition of Sample: Fit For Test								
Sampling Protocol: IS:5182										Sampling Date: 16-09-2026 to 17-09-2026								
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																		
Sampling Location: NK # 64																		
Field Meteorological Information			A. Temp. (°C): 28			R.H. (%): 57			W.C.: Partly Sunny			W.D.: SE to NW						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving date: 17-09-2026						Testing Started: 17-09-2026						Testing Ended: 19-09-2026						

----Test Results----

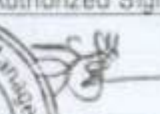
SLNo.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	63.6
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	30.9
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	24.8
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	42.5
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	33.7
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	29.3
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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
	
(Shubham Pushp)	S. C. Jain
Dy. Technical Manager	Director

----End of Report----

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002A02	
Sample ID: 260917AP03002	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block , 4th Floor, Rishabh Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 16-09-2026 to 17-09-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 64		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

---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	02	BDL(MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

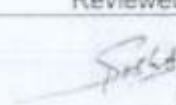
Specific Contractual Notes :-

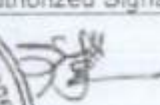
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Reviewed by

Authorized Signatory


 (Shubham Pushp)
 Dy. Technical Manager


 Dr. S. C. Jain
 Director

---End of Report---



TC-18135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	1	0	8	
Discipline: Chemical			Group: Atmospheric Pollution						Sub-Group: Ambient Noise Level (Excluding Vibrations)										
Report Issue Date: 19-09-2026									Test Report No.: RN-260914002N01										
Sample ID: 260917AP02001									Sample Description: Ambient Noise Level										
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 14-09-2026										
Name and Contact Details of Customer: P & C Dept.																			
Email id.- pne.ranchi@prabhaenergy.com																			
Prabha Energy Ltd.(PEL), NK CBM Block,																			
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																			
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																			
Information obtained from customer (if any):																			
Type of Industry: Energy									Condition of Sample: Fit For Test										
Sampling Protocol: IS: 5182									Sampling Date: 16-09-2026 to 17-09-2026										
Protocol: CPCB Guideline & IS Method 9989:1981																			
Sampling Location: NK # 40																			
Field Meteorological Information			A. Temp. (°C): 28			R.H. (%): 57			W.C.: Partly Sunny			W.D.: SE to NW							
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																			
Sample Receiving date: 17-09-2026						Testing Started: 17-09-2026						Testing Ended: 19-09-2026							

----Test Results----

Sl. No.	Parameters	Test Method No.	Unit	Results		Norms**
				Day Time	Night Time	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	62.9	53.2	Day -75 Night - 70

Note: -

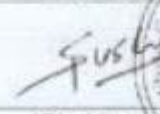
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
5. 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.
6. 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
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	• The results relate only to the item tested, calibrated or sampled. • Additions to, deviations, or exclusions from the method is not practiced if not mentioned. • Results from external providers are not used if not specified.

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Reviewed by	Authorized Signatory
	
(Shubham Pushpa)	(Dr. S. C. Jain)
Dy. Technical Manager	Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-16135

TEST REPORT

UIR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	0	F
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Noise Level (Excluding Vibrations)									
Report Issue Date: 19-09-2026									Test Report No.: RN-260914002N02									
Sample ID: 260917AP02002									Sample Description: Ambient Noise Level									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 14-09-2026									
Name and Contact Details of Customer: P & C Dept.																		
Email id:- pne.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any):																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: IS: 5182									Sampling Date: 16-09-2026 to 17-09-2026									
Protocol: CPCB Guideline & IS Method 9989:1981																		
Sampling Location: NK # 64																		
Field Meteorological Information			A. Temp. (°C): 28			R.H. (%): 57			W.C.: Partly Sunny			W.D.: SE to NW						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving date: 17-09-2026						Testing Started: 17-09-2026						Testing Ended: 19-09-2026						

---Test Results---

SL No.	Parameters	Test Method No.	Unit	Results		Norms**
				Day Time	Night Time	
1.	Equivalent Sound Level (Leq)	IS 9989:1981	dB(A)	65.2	55.8	Day -75 Night - 70

Note: -

1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
3. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
4. dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
5. 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.
6. 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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Shubham Rishu) (Dr. S. C. Jain)

Dy. Technical Manager Director

---End of Report---

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TC-10125

TEST REPORT

Annexure III

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	3	F				
Discipline: Chemical	Group: Water									Sub-Group: Ground water												
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002GW1																					
Sample ID: 260917WA02001	Sample Description: Ground Water (Bore well)																					
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026																					
Name and Contact Details of Customer: P & C Dept.																						
Email id:- pnc.ranchi@prabhaenergy.com																						
Prabha Energy Ltd.(PEL), NK CBM Block,																						
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																						
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																						
Information obtained from customer (if any): N/A																						
Type of Industry: Energy									Condition of Sample: Fit for Test													
Sampling Protocol: IS 17614 (Part-1):2025									Sampling Date: 17-09-2026													
Protocol: CPCB Guideline & IS Method 3025 Series & APHA																						
Sampling Location: NK # 10																						
Field Meteorological Information									A. Temp. (°C): 28				R.H. (%): 57				W.C.: Partly Sunny				W.D.: SW to NE	
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																						
Sample Receiving Date: 17-09-2026									Testing Started: 17-09-2026					Testing Ended: 19-09-2026								

---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	7.39
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	1032
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	2.6
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	20
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	658
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	78.8
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	287
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	7
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	65
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	86.7
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	29.1
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	2.9
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	39.6
15.	Fluoride (as F)	mg/l	APHA 4500 D:20	1.0	1.5	0.42
16.	Copper	mg/l	APHA 3111 B:20	0.05	1.5	BDL (MDL-0.2)
17.	Lead	mg/l	APHA 3111 B:2023	0.01	No Relaxation	BDL (MDL-0.2)
18.	Iron	mg/l	APHA 3111 B:2023	1	No Relaxation	0.16
19.	Arsenic (as AS)	mg/l	APHA: 3114B:2023	0.01	No Relaxation	BDL(MDL-0.02)
20.	Mercury	mg/l	APHA: 3112B:2023	0.001	No Relaxation	BDL(MDL-0.05)

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Reviewed by _____ Authorized Signatory

(Shubham Pushp) (Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



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



TC-16135

TEST REPORT

21	Temperature	°C	APIIA 3111 B.2023	--	--	26.2
22	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.001	0.002	BDL(MDL-0.001)
23	Chromium	mg/l	APIIA: 3111B.2023	0.05	No Relaxation	BDL(MDL-0.2)
24	Zinc	mg/l	APIIA: 3111B.2023	5	15	BDL(MDL-0.2)
25	Nickel	mg/l	APIIA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26	Hexavalent Chromium	mg/l	APIIA: 3111 B.2023	--	--	BDL(MDL-0.01)
27	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
28	Manganese	mg/l	APIIA 3111 B.2023	0.1	0.3	BDL(MDL-0.2)

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
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by: Authorized Signatory

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

----End of Report----

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

TEST REPORT

Discipline: Chemical	Group: Water	Sub-Group: Ground water
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002GW1	
Sample ID: 260917WA02001	Sample Description: Ground Water (Bore well)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any): N/A		
Type of Industry: Energy	Condition of Sample: Fit for Test	
Sampling Protocol: IS 17614 (Part-1):2025	Sampling Date: 17-09-2026	
Protocol: CPCB Guideline & IS Method 3025 Series & APHA		
Sampling Location: NK # 10		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
29.	SAR	mg/l	IEM/ SOP/WATER	--	---	5.4
30.	Salinity	PSU	APHA 2520 B:2023	--	--	4.46
31.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
32.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)

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
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by: _____ Authorized Signatory

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

---End of Report---



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



TC-16135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	4	F				
Discipline: Chemical									Group: Water					Sub-Group: Ground water								
Report Issue Date: 19-09-2026									Test Report No.: RN-260914002GW2													
Sample ID: 260917WA02002									Sample Description: Ground Water (Bore well)													
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 14-09-2026													
Name and Contact Details of Customer: P & C Dept.																						
Email id.- pnc.ranchi@prabhaenergy.com																						
Prabha Energy Ltd.(PEL), NK CBM Block-1,																						
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																						
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																						
Information obtained from customer (if any): N/A																						
Type of Industry: Energy										Condition of Sample: Fit for Test												
Sampling Protocol: IS 17614 (Part-1):2025										Sampling Date: 17-09-2026												
Protocol: CPCB Guideline & IS Method 3025 Series & APHA																						
Sampling Location: NK # 34																						
Field Meteorological Information					A. Temp. (°C): 28					R.H. (%): 57					W.C.: Partly Sunny				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																						
Sample Receiving Date: 17-09-2026									Testing Started: 17-09-2026					Testing Ended: 19-09-2026								

---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	7.32
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	878
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	1.3
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	12
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	562
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	68.2
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	253
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	5
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	49
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	69.3
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	26.8
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	4.2
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	32.6
15.	Fluoride (as F)	mg/l	APHA 4500 D:20	1.0	1.5	0.29
16.	Copper	mg/l	APHA 3111 B:20	0.05	1.5	BDL (MDL-0.2)
17.	Lead	mg/l	APHA 3111 B:2023	0.01	No Relaxation	BDL (MDL-0.2)
18.	Iron	mg/l	APHA 3111 B:2023	1	No Relaxation	0.13
19.	Arsenic (as AS)	mg/l	APHA: 3114B:2023	0.01	No Relaxation	BDL(MDL-0.02)
20.	Mercury	mg/l	APHA: 3112B:2023	0.001	No Relaxation	BDL(MDL-0.05)

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Reviewed by _____ Authorized Signatory

(Shubham Pushp) (Dr. S. C. Jain)

Dy. Technical Manager Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-16135

TEST REPORT

21	Temperature	°C	APHA 3111 B:2023	--	--	25.4
22	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.001	0.002	BDL(MDL-0.001)
23	Chromium	mg/l	APHA: 3111B.2023	0.05	No Relaxation	BDL(MDL-0.2)
24	Zinc	mg/l	APHA: 3111B.2023	5	15	BDL(MDL-0.2)
25	Nickel	mg/l	APHA: 3111B.2023	0.02	No Relaxation	BDL(MDL-0.2)
26	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.01)
27	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
28	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

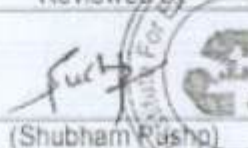
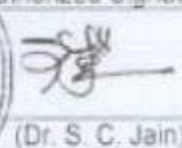
Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500 :2012
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Shubham Pushp)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TEST REPORT

Discipline: Chemical	Group: Water	Sub-Group: Ground water
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002GW2	
Sample ID: 260917WA02002	Sample Description: Ground Water (Bore well)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block-I, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any): N/A		
Type of Industry: Energy	Condition of Sample: Fit for Test	
Sampling Protocol: I.S 17614 (Part-1):2025	Sampling Date: 17-09-2026	
Protocol: CPCB Guideline & IS Method 3025 Series & APHA		
Sampling Location: NK # 34		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
29.	SAR	mg/l	IEM/ SOP/WATER	--	--	4.7
30.	Salinity	--	APHA 2520 B-2023	--	--	3.85
31.	Lithium	mg/l	APHA 3111 B-2023	--	--	BDL(MDL-0.2)
32.	Vanadium (as V)	mg/l	APHA 3500 V B, 2023	--	--	BDL(MDL-0.1)

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
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-10135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	5	F				
Discipline: Chemical									Group: Water					Sub-Group: Ground water								
Report Issue Date: 19-09-2026									Test Report No.: RN-260914002GW3													
Sample ID: 260917WA02003									Sample Description: Ground Water (Bore well)													
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 14-09-2026													
Name and Contact Details of Customer: P & C Dept.																						
Email id.- pnc.ranchi@prabhaenergy.com																						
Prabha Energy Ltd.(PEL), NK CBM Block-1,																						
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																						
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																						
Information obtained from customer (if any): N/A																						
Type of Industry: Energy									Condition of Sample: Fit for Test													
Sampling Protocol: I.S 17614 (Part-1):2025									Sampling Date: 17-09-2026													
Protocol: CPCB Guideline & IS Method 3025 Series & APHA																						
Sampling Location: NK # 64																						
Field Meteorological Information					A. Temp. (°C): 28					R.H. (%): 57					W.C.: Partly Sunny				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																						
Sample Receiving Date: 17-09-2026									Testing Started: 17-09-2026					Testing Ended: 19-09-2026								

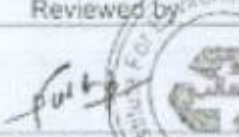
----Test Result----

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	7.21
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	954
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	1.8
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	16
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	608
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	73.4
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	272
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	6
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	54
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	77.2
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	28.3
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	3.8
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	34.2
15.	Fluoride (as F)	mg/l	APHA 4500 D:20	1.0	1.5	0.34
16.	Copper	mg/l	APHA 3111 B:20	0.05	1.5	BDL (MDL-0.2)
17.	Lead	mg/l	APHA 3111 B:2023	0.01	No Relaxation	BDL (MDL-0.2)
18.	Iron	mg/l	APHA 3111 B:2023	1	No Relaxation	0.15
19.	Arsenic (as AS)	mg/l	APHA: 3114B:2023	0.01	No Relaxation	BDL (MDL-0.02)
20.	Mercury	mg/l	APHA: 3112B:2023	0.001	No Relaxation	BDL (MDL-0.05)

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Reviewed by:  Authorized Signatory

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TEST REPORT

21	Temperature	°C	APHA 3111 B:2023	--	--	25.8
22	Phenolic Compound	mg/l	IS 3025 (Part-43)	0.001	0.002	BDL(MDL-0.001)
23	Chromium	mg/l	APHA: 3111B:2023	0.05	No Relaxation	BDL(MDL-0.2)
24	Zinc	mg/l	APHA: 3111B:2023	5	15	BDL(MDL-0.2)
25	Nickel	mg/l	APHA: 3111B:2023	0.02	No Relaxation	BDL(MDL-0.2)
26	Hexavalent Chromium	mg/l	APHA: 3111 B:2023	--	--	BDL(MDL-0.01)
27	Cyanides	mg/l	IS 3025 (Part-27)	0.05	No Relaxation	BDL(MDL-0.1)
28	Manganese	mg/l	APHA 3111 B:2023	0.1	0.3	BDL(MDL-0.2)

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
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by: Authorized Signatory

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

---End of Report---

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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

TEST REPORT

Discipline: Chemical	Group: Water	Sub-Group: Ground water
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002GW3	
Sample ID: 260917WA02003	Sample Description: Ground Water (Bore well)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block-I , 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any): N/A		
Type of Industry: Energy	Condition of Sample: Fit for Test	
Sampling Protocol: I.S 17614 (Part-1):2025	Sampling Date: 17-09-2026	
Protocol: CPCB Guideline & IS Method 3025 Series & APHA		
Sampling Location: NK # 64		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
29.	SAR	mg/l	IEM/ SOP/ WATER	--	--	4.8
30.	Salinity	--	APHA 2520 B:2023	--	--	4.15
31.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
32.	Vanadium (as V)	mg/l	APHA 3500 V B, 2023	--	--	BDL(MDL-0.1)

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Reviewed by _____ Authorized Signatory

(Shubham Pushp)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

---End of Report---



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Ranchi-834002, Jharkhand, India
Ph - 8407804253, 8407804251, Email - iem2012@rediffmail.com



TEST REPORT

Annexure IV TC-16135

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	6	F
Discipline: Chemical			Group: Pollution & Environment										Sub-Group: Waste Water					
Report Issue Date: 19-09-2026										Test Report No.: RN-260914002WW01								
Sample ID: 260917PE01001										Sample Description: Waste Water (Effluent)								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 14-09-2026								
Name and Contact Details of Customer: P & C Dept.																		
Email id:- pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(P.E.L.), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any): N/A																		
Type of Industry: Energy										Condition of Sample: Fit For Test								
Sampling Protocol: I.S.17614(Part-1):2025										Sampling Date: 17-09-2026								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 10																		
Field Meteorological Information					A. Temp. (°C): 28				R.H. (%): 57				W.C.: Partly Sunny				W.D.: SW to NE	
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 17-09-2026					Testing Started: 17-09-2026					Testing Ended: 19-09-2026								

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	8.4
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.2
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	61
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	558
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	23.2
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	84
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	24.2
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	45
13.	Sodium	mg/l	IS 3025 (Part-24)	--	38.42

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Reviewed by: _____ Authorized Signatory

(Shubham Pushp) (Dr. S. C. Jain)

Dy. Technical Manager Director

---End of Report---

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-15135

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	619
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.39
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

Shubham Pushp
(Shubham Pushp)

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

Dy Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 19-09-2026			Test Report No.: RN-260914002WW01		
Sample ID: 260917PE01001			Sample Description: Waste Water (Effluent)		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 14-09-2026		
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: I.S.17614(Part-1):2025			Sampling Date:17-09-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK # 10					
Field Meteorological Information		A. Temp. (°C): 28	R.H. (%): 57	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 17-09-2026		Testing Started: 17-09-2026		Testing Ended: 19-09-2026	

----Test Results----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	3.7
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (** Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh& team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)

(Shubham Pushp)

Dy. Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	7	F
Discipline: Chemical						Group: Pollution & Environment						Sub-Group: Waste Water						
Report Issue Date: 19-09-2026						Test Report No.: RN-260914002WW02												
Sample ID: 260917PE01002						Sample Description: Waste Water (Effluent)												
Challan No./P.O. No.: N/A						Challan No./ P.No. Date: 14-09-2026												
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any): N/A																		
Type of Industry: Energy						Condition of Sample: Fit For Test												
Sampling Protocol: IS.17614(Part-1):2025						Sampling Date: 17-09-2026												
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 34																		
Field Meteorological Information			A. Temp. (°C): 28			R.H. (%): 57			W.C.: Partly Sunny			W.D.: SW to NE						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 17-09-2026						Testing Started: 17-09-2026						Testing Ended: 19-09-2026						

---Test Results---

SL No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	7.6
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.4
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	43
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	421
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	16.4
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	44
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	56
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	38
13.	Sodium	mg/l	IS 3025 (Part-24)	--	31.25

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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

(Shubham Pushp)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001
Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India
Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com



TC-16125

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	464
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.34
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (--- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

[Signature]

(Shubham Pushp)

Dy. Technical Manager

[Signature]

(Dr. S. C. Jain)

Director

---End of Report---

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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

TEST REPORT

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water		
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002WW02			
Sample ID: 260917PE-01002	Sample Description: Waste Water (Effluent)			
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026			
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002				
Information obtained from customer (if any): N/A				
Type of Industry: Energy	Condition of Sample: Fit For Test			
Sampling Protocol: I.S.17614(Part-1):2025	Sampling Date:17-09-2026			
Protocol: CPCB Guideline & IS Method 3025 Series				
Sampling Location: NK # 34				
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: JEM Laboratory, Ranchi				
Sample Receiving Date: 17-09-2026	Testing Started: 17-09-2026		Testing Ended: 19-09-2026	

---Test Results---

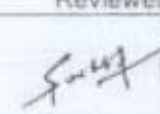
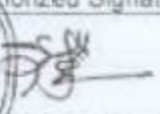
Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	2.78
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (--- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Addition: to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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
	
(Shubham Pushp)	(Dr. S. C. Jain)
Dy. Technical Manager	Director

---End of Report---

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-16125

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	2	6	2	8	F						
Discipline: Chemical					Group: Pollution & Environment					Sub-Group: Waste Water														
Report Issue Date: 19-09-2026										Test Report No.: RN-260914002WW03														
Sample ID: 260917PE01003										Sample Description: Waste Water (Effluent)														
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 14-09-2026														
Name and Contact Details of Customer: P & C Dept. Email id - pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(P.E.L.), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002																								
Information obtained from customer (if any): N/A																								
Type of Industry: Energy										Condition of Sample: Fit For Test														
Sampling Protocol: I.S.17614(Part-1):2025										Sampling Date: 17-09-2026														
Protocol: CPCB Guideline & IS Method 3025 Series																								
Sampling Location: NK # 64																								
Field Meteorological Information					A. Temp. (°C): 28					R.H. (%): 57					W.C.: Partly Sunny					W.D.: SW to NE				
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																								
Sample Receiving Date: 17-09-2026					Testing Started: 17-09-2026					Testing Ended: 19-09-2026														

----Test Results----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	6.6
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.8
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	52
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	441
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	19.2
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	64
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	12.7
8.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	42
13.	Sodium	mg/l	IS 3025 (Part-24)	--	33.15

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Reviewed by _____ Authorized Signatory

(Shubham Pusop)

Dy. Technical Manager

(Dr. S. C. Jain)

Director

----End of Report----

INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-10132

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	493
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.37
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

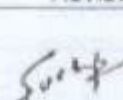
Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (--) Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by Authorized Signatory



 (Shubham Pushp) (Dr. S. C. Jain)

Dy. Technical Manager Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TEST REPORT

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 19-09-2026	Test Report No.: RN-260914002WW03	
Sample ID: 260917PE01003	Sample Description: Waste Water (Effluent)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 14-09-2026	
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any): N/A		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: I.S.17614(Part-1):2025	Sampling Date:17-09-2026	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 64		
Field Meteorological Information	A. Temp. (°C): 28	R.H. (%): 57
	W.C.: Partly Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 17-09-2026	Testing Started: 17-09-2026	Testing Ended: 19-09-2026

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	2.9
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water, (--- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	• The results relate only to the item tested, calibrated or sampled. • Additions to, deviations, or exclusions from the method is not practiced if not mentioned. • Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory


(Shubham Pushp)
Dy. Technical Manager


Dr. S. C. Jain
Director

---End of Report---



File No.: J-11011/228/2012- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 08/09/2025



To,

Shri. Shailendra Kumar Singh
M/s. Prabha Energy Private Limited
shailendra.singh@prabhaenergy.com

Subject: Development of North Karanpura CBM Block (NK-CBM-2001/1) for extraction and processing of Coal Bed Methane Gas of 0.15MMSCMD capacity located in Jharkhand by M/s Prabha Energy Private Limited - Consideration for Validity Extension of Environmental Clearance.

Sir/Madam,

This is in reference to your application submitted to Ministry vide proposal number IA/JH/IND2/545787/2025 dated 24/07/2025 for an extension in validity of prior Environmental Clearance (EC) granted to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) Validity Extension Identification No.	EC25A0303JH5756153N
(ii) File No.	J-11011/228/2012- IA II (I)
(iii) Clearance Type	Application for Validity Extension of EC- Form-6
(iv) Category	A
(v) Schedule No./ Project Activity	1(b) Off-shore and onshore oil and gas exploration, development and production
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	North Karanpura CBM Block (NK-CBM-2001/1) in Jharkhand
(viii) Location of Project (District, State)	HAZARIBAGH, JHARKHAND
(ix) Issuing Authority	MoEF&CC
(x) EC date	
(xi) Status of implementation of the project	CTE was taken and project is under construction/development
(xii) Whether any amendment to the earlier EC has been sought?	No

3. The Ministry of Environment, Forest and Climate Change has considered the above proposal for validity extension amendment in the Environmental Clearance granted by the Ministry vide IA- J-11011/228/2012- IA II (I) dated 12th May, 2015 for the project Development of North Karanpura CBM Block (NK-CBM-2001/1) for extraction and processing of Coal Bed Methane Gas of 0.15 MMSCMD capacity by M/s ONGC Ltd. The project involves drilling of 74 wells (64 development and 6 assessment wells) and installation of 3 mini GCS. The EC has been transferred to M/s Prabha Energy Private Limited vide even letter dated 01st May, 2018.

4. The Project Proponent has requested an extension of validity of the Environmental Clearance (EC) citing the following reasons:

- EC was granted to ONGC on 12th May 2015 and subsequently transferred to Prabha Energy Private Limited on 1st May 2018.
- Initially Petroleum Mining Lease (PML) was granted to consortium (ONGC & IOCL) on 31st July 2015. Later on same was transferred to PEPL on 04th September 2017. Thereby resulting in time loss of about 2 years.
- Prabha Energy Limited is currently engaged in developing North Karanpura CBM block on behalf of consortium (ONGC-IOCL & PEPL). So far, Operations are being performed in Sector-C of North Karanpura CBM Block (NK-CBM-2001/1).
- Due to Pandemic National Lockdown in 2020-21, operations were stalled in North Karanpura CBM Block.
- Status of implementation: Development drilling in the block started on 07.06.2018. Till date 62 wells drilled. Out of which 54 wells have been completed. Massive Hydraulic Fracturing jobs were carried out to achieve maximum gas production.

5. During deliberations, EAC noted that the initial EAC was granted on 12th May 2015, which is valid till 11th May, 2026 (10 years as per extant rules + 1 year zero-period notified vide S.O. 4254(E) dated 27th November, 2020). EAC also noted that the instant application for extension of validity is within the validity period of EC. Hence, the validity of EC be extended for one more year as per S.O. 1807 (E) dated 12th April, 2022.

6. After detailed deliberations EAC found the implementation status of the project satisfactory and recommended the project for extension of validity of EC till 11th May, 2027.

7. However, all other terms and conditions mentioned in EC issued vide F. No. IA- J-11011/228/2012- IA II (I) dated 12th May, 2015 shall remain unchanged.

8. Based on **recommendations** of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords **approval** to the proposed extension in the validity of Environmental Clearance dated 12th May, 2015 as stated above, for the project **"Development of North Karanpura CBM Block (NK-CBM-2001/1) for extraction and processing of Coal Bed Methane Gas of 0.15MMSCMD capacity"** located in Jharkhand by M/s Prabha Energy Private Limited.

9. This issues with approval of the Competent Authority.

Copy To

1. The Additional Chief Secretary, Environment & Forests Department, Government of Jharkhand, Secretariat, Nepal House, Doranda, Ranchi - 834 001.
2. The Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office, Bunglow No. A-2, Shyamali Colony, Ranchi - 834 002.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 32.
4. The Member Secretary, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, Ranchi - 824 004.
5. Compliance & Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. District Collector, Hazaribagh, Chatra, Jharkhand.
7. Guard File/Monitoring File/Parivesh Portal /Record File.

Signed by
Vimal Kumar Hatwal
Date: 08-09-2025 09:36:51
Reason: Verified and signed

F. No. J-11011/228/2012-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA- II Section)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 1st May, 2018

✓ To

M/s Prabha Energy Private Limited
12A, Abhishree Corporate Park
Ambli-Bopal Road
Ahmedabad (Gujarat) - 380 058

Sub: Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand- Transfer of Environmental Clearance from M/s ONGC Ltd to M/s Prabha Energy Private Limited - reg.

Sir,

This has reference to your proposal No. IA/JH/IND2/71896/2014 dated 28th December, 2017 regarding transfer of environmental clearance from M/s ONGC Ltd to M/s Prabha Energy Private Limited.

2. The Ministry had earlier granted environmental clearance vide letter dated 12th May, 2015 for the project 'Development of North Karanpura CBM Block NK-CBM-2001/1' in Jharkhand in favour of M/s ONGC Ltd.

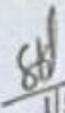
3. As per the amendment to the CBM contract and joint operating agreement, there has been change in the operatorship of the block w.e.f 28th December, 2015 and M/s Prabha Energy Private Limited has been assigned 25% participating interest (PI), and thus necessitating transfer of all requisite approvals in the new name of the company.

4. M/s ONGC Ltd has submitted a letter dated 4th July, 2017 stating no objection to the transfer of environmental clearance dated 12th May, 2015 in favour of M/s Prabha Energy Private Limited.

5. M/s Prabha Energy Private Limited has submitted an affidavit to abide by the terms and conditions stipulated in the environmental clearance dated 12th May, 2015 issued in the name of M/s ONGC Ltd.

6. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance to the project 'Development of North Karanpura CBM Block NK-CBM-2001/1' in Jharkhand granted by the Ministry vide letter dated 12th May, 2015 is hereby transferred from M/s ONGC Ltd to M/s Prabha Energy Private Limited, on the same terms and conditions under which prior environmental clearance was initially granted and for the same validity period.

7. This issues with approval of the competent authority.


11/5/2018
(S. K. Srivastava)
Scientist E

Copy to:-

1. The Additional PCCF (C), MoEF&CC Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi - 2

2. The Secretary, Forest, Environment and Climate Change Department, Government of Jharkhand, Ranchi (Jharkhand)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Jharkhand State Pollution Control Board, T A Building, HEC Complex, Ranchi (Jharkhand)
5. Guard File/Monitoring File/Website/Record File

CH
SV
1/5/2018
(S. K. Srivastava)
Scientist E

F. No. J-11011/228/2012- IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail : lk.bokolia@nic.in
Telefax : 011: 24695313
Date: 12th May, 2015

To,

Shri G S Datta (CE (D), In-charge HSE)
M/s Oil & Natural Gas Corporation Ltd.
1st Floor, HSCL Building,
Nayamore Bokaro- 82700, Jharkhand

E-mail: gourisankar.datta@yahoo.co.in ; data_gouri@ongc.co.in ; Fax No. :06542-226666.

Subject: Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand by M/s ONGC Ltd. - Environmental Clearance reg.

Ref. : Your letter no. ONGC/CHSE/EC/2014 dated 28th June, 2014.

Sir,

This has reference to your letter dated 28th June, 2014 on the above mentioned subject alongwith project documents including Prefeasibility Report, Draft Terms of References, EIA/EMP, Public Hearing Report and subsequent submission of additional information vide letter dated 17th January, 2015 regarding above mentioned project.

2.0 The Ministry of Environment, Forests & Climate Change has examined your application. It is noted that the proposal is for development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand by M/s ONGC Ltd. The block falls in the districts of Hazaribagh and Chatra of Jharkhand State with block area (271.8 sq. km). It is reported that no sensitive zone and bio-reserves are located within 10 Km distance and no forest land is involved. The block is bounded by latitude 23°46'56" & 23°54'57" and longitudes 85°00'36" & 85°20'44". In the said block ONGC proposed to drill 74 wells (68 Development Wells & 6 assessment wells). The present proposal is in 3rd phase of development. Average depth of drilling will be 1000 m and Maximum upto 1500 m. There will be 3 mini Gas Collection Stations (GCS) in Sector -C, one located in subsector -1 and other two in Sub-sector -2. Total capacity of gas processing is 0.15 MMSCMD. Produced water handling capacity will be 1500 m3/day. Cost of project is Rs. 684 Crore.

3.0 Elevated flaring will be done only during process upset. Adequate stack height will be provided to DG set/GG sets. Fresh water requirement from surface water source/tanker supply/CBM produced water will be 25m³/day. Wastewater generated during drilling operations will be 5-10 m3/day or 150-200 m3 per well. The effluent generated during drilling operations are recommended to be collected in lined waste pits to avoid groundwater contamination. The wastewater is solar evaporated and residual material on completion of well is removed and disposed in accordance with prevailing rules. Drill cuttings will be generated and separate in a solid control system and conveyed to a specially designed pit (lined with HDPE) for temporary storage and disposed in accordance with CPCB regulations specified for on-shore oil and gas industry or will be used for road making. Generation of produce

CR.

water from CBM wells will be 3-5 m³/day. The produced water during production testing is allowed to evaporate naturally from the evaporation pit. Produced water based on water quality will be reused for beneficial purposes. Waste oil/used oil will be sent to authorized re-processors.

4.0 All the projects related to offshore and onshore Oil and Gas exploration, development and production are listed in para 1(b) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at Central level.

5.0 Public hearing/public consultation meetings were held for Chatra District on 25.02.2014 and for Hazaribagh District on 26.02.2014.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd, 24th and 34th Meetings held during 3rd-5th December, 2012, 29th-30th September, 2014 and 17th-19th February, 2015 respectively. Project Proponent as well as EIA Consultant namely M/s ONGC Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS :

- i. Compensation for the land acquisition to the land owners, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.
- ii. The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.
- iii. Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, CH₄, VOCs, HC, Non-methane HC etc. Efforts shall be made to improve the ambient air quality of the area.
- iv. The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the flare pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emissions from stacks shall meet the MOEF/CPCB guidelines.
- v. The company shall make the arrangement for control of noise from the drilling activity and DG/GG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG/GG sets and meet the norms notified by the MoEF. Height of all the stacks/vents shall be as per the CPCB guidelines.

- vi. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR. 546(E) dated 30th August, 2005.
- vii. Total fresh water requirement shall not exceed (25m³/day) for each well during drilling phase and prior permission shall be obtained from the Competent Authority and a copy submitted to the Ministry's Regional Office at Bhubaneswar.
- viii. During well drilling, wastewater shall be segregated into waste drilling fluid and drill cuttings. Drill cutting shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be disposed off through septic tank followed by soak pit.
- ix. Ground water quality monitoring shall be done to assess if produced water storage or disposal has any effect.
- x. Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or treated and shall comply with the notified standards for on-shore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bhubaneswar.
- xi. Only water based drilling mud shall be used. The drilling mud shall be recycled. Hazardous waste shall be disposed of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. The recyclable waste (oil sludge) and spent oil shall be disposed of to the authorized recyclers/re-processors.
- xii. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- xiii. To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH₄ and H₂S shall be provided.
- xiv. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.
- xv. The company shall develop a contingency plan for H₂S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H₂S detectors in locations of high risk of exposure along with self containing breathing apparatus.
- xvi. Adequate well protection system shall be provided like Blow Out Preventer (BOP) or diverter systems as required based on the geological formation of the blocks.

- xvii. The top soil removed shall be stacked separately for reuse during restoration process.
- xviii. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.
- xix. Project proponent shall comply with the environment protection measures and safeguards recommended in the EIA/EMP/risk analysis report/disaster management plan.
- xx. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.
- xxi. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- xxii. All the commitments made to the public during the Public Hearing / Public Consultation meetings held on 25.02.2014 for Chatra District and on 26.02.2014 for Hazaribagh District shall be satisfactorily implemented.
- xxiii. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Jharkhand State Pollution Control Board (JSPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- 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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall

be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

- vi. 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, risk mitigation measures and public hearing relating to the project shall be implemented.
- vii. 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.
- viii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- x. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xi. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xii. 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 MoEF, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiii. The environmental statement for each financial year ending 31st 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 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 MoEF by e-mail.
- xiv. 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://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xv. 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.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

10.0 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 Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

11.0 Environment Clearance is issued to M/s ONGC Ltd. for Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand.

(Lalit Bokolia)
Additional Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. The Chief Conservator of Forests, Regional Office (EZ), A/3, Chandrashekharpur, Bhubaneswar, 751023, Orissa.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, Ranchi- 824004.
5. Monitoring Cell, Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi.
6. Guard File/Monitoring File/Record File.

(Lalit Bokolia)
Additional Director

NORTH KARANPURA CBM PROJECT
(CONSORTIUM OF ONGC, IOCL AND PEL)

PEL/NKCBM/HSE/MOEFCC/2026/01

Date: 23rd April 2026

To,
The Member Secretary
Jharkhand State Pollution Control Board
Township Building, HEC Complex, Dhurva
Ranchi - 834004
Jharkhand

Subject: Environmental Statement for the financial year ending 31st March 2026 in FORM V for "Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand State".

Dear Sir,

Kindly find attached herein the Environmental Statement for the financial year ending 31st March 2026 in FORM V as mandated vide General Conditions of the environmental clearance granted by MoEFCC vide Ministry's letter no. J - 11011/228/2012 - IA. II (I) dated 12th May 2015, extension date 11th May 2027.

Thanking you,

Yours truly,

For Prabha Energy Limited



Dr. Shailendra K Singh
Sr. Vice President (Operations)

CC:

- 1) The Ministry of Environment, Forest and Climate Change, Integrated Regional Office, (New Building of Jharkhand Rajya Awaas Board), Harmu, Ranchi-834002, Jharkhand

Enclosure: Environmental Statement for the financial year ending 31st March 2026

1. Ambient Air Report
2. Stack Monitoring Report
3. Effluent Water Report

ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2026

PART-A

- a) Name and address of the owner/
Occupier of the industry
Operation or process : Prabha Energy Limited,
12A, Abhishree Corporate Park
Opposite Swagat Bunglows BRTS
Bus Stop, Ambli - Bopal Road,
Ambli, Ahmedabad, Gujarat-
380058
- b) Industry category Primary-
(STC Code) Secondary- (SIC Code) : Red
- c) Production category-Units. : Coal Bed Methane-
20,000 m3/day
- d) Year of establishment : 2017
- e) Date of the last Environmental
Statement submitted. : 7th May 2025



PART -B

- a) Water and Raw Material Consumption : Fresh Water required for operational
- Requirements/In house uses.
Effluent Water is being used for Drilling and Hydro-fracturing operation. (Being admissible limit of CPCB Norms _Annexure 3)

(However, all Drilling and Hydro-fracturing operations in North Karanpura CBM Block have been suspended from 1st April 2025 to 31st March 2026)

- b) Water consumption in m³/d : 3 m³/day
- Process :
Cooling :
Domestic : 3 m³/day

Name of Products	Process water consumption per unit of products	
	During the previous financial year 2025-2026	During the current financial year 2025-2026
Coal-bed Methane (CBM) Gas	NIL	NIL

- c) Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year 2025-2026	During the current financial year 2025-2026
There are no raw materials involved in the production of CBM gas. Naturally occurring CBM Gas is extracted from the coal seams at well pads.		Nil	Nil



PART-C

a) Pollution discharged to environment/ : No pollution is discharged to
Unit of output environment

(Parameter as specified in the consent is used)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	119.18071 m ³ /day water has been discharged through CBM production.	The discharged water is analyzed periodically and meets the standards set by CPCB. Discharge water is stored with in the premises of each well site inside pits for Natural evaporation and for rain water recharging apart from agricultural uses in nearby surrounding area.	There are no variations
(b) Air (Gas Genset 62.5 KVA)	Average velocity of flue emission is 9.8 m/s	Ambient Air and Stack Emission is analyzed periodically and meet the standards set by CPCB (EPA)	There are no variations



PART-D

- a) Hazardous Wastes : No Hazardous Waste is discharged to environment

As specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
i. From Process	Not Applicable	Not Applicable
ii. From Pollution Control Facilities		

PART – E

- a) Solid Waste : Drill cuttings are Solid Waste

Solid Wastes	Total Quantity (m3)	
	During the previous financial year	During the current financial year
i. From process	0 m ³	0 m ³
ii. From Pollution Control Facility	Not Applicable	Not Applicable
iii. Quantity recycled or reutilized within the unit.	Not Applicable	Not Applicable

(Drilling Operation in North Karanpura CBM Block has been suspended from 1st April 2025 to 31st March 2026, so no solid waste generated in the year)



PART - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- Hazardous Waste: Presently no hazardous waste is generated.
- Non-Hazardous Waste: Drill cuttings are non-hazardous inert material and are being used for construction activities like back filling of low lying areas, construction of well pads, road filling etc.

However, Drilling Operation in North Karanpura CBM Block has been suspended from 1st April 2025 to 31st March 2026, so no drill cuttings were generated during the year."

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

- Reuse of produced water in dust suppression and as utilities.
- Gas based Generator Sets used at well sites and facilities.
- Maximum Sale of Coal bed Methane Gas and target to achieve "Zero" the Gas flaring.

PART - H

Additional measures / investment proposal for environmental protection including abatement of pollution.

Regular environmental monitoring through CPCB/NABL approved laboratory for Ambient Air and Noise Quality monitoring and GG set Stack emission monitoring, sampling and Analysis of Produced water, Ground water. The analysis and monitoring report was submitted with half yearly Environmental Clearance compliance report.

No pollution is generated in our routine operations.



PART -I

Any other particulars for improving the quality of environment.

Tree plantation taken up along existing well sites.





INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harma Housing Colony,

Ranchi-834002, Jharkhand, India

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



IC-16133

TEST REPORT

U/LR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	5	0	5
Discipline: Chemical	Group: Pollution & Environment									Sub-Group: Waste Water								
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003WW01																	
Sample ID: 260218PE01001	Sample Description: Waste Water (Effluent)																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any): N/A																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: I.S.17614(Part-1):2025									Sampling Date:18-02-2026									
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 09																		
Field Meteorological Information			A. Temp. (°C): 24			R.H. (%): 59			W.C.: Semi-Cloudy			W.D.: SW to NE						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 18-02-2026					Testing Started: 18-02-2026					Testing Ended: 21-02-2026								

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	7
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.4
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	6
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	424
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	18.4
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	40
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	16.4
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	44
13.	Sodium	mg/l	IS 3025 (Part-24)	--	39.12

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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

(Signature)
(Akanksha Sourabh)

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

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-10120

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms ^{1,2}	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	451
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.32
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 19631966(C)
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms ^{1,2} is Specified	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (--- Indicates not mentioned in CPCB guidelines)
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pashp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh)

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

Dy. Technical Manager

Director

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INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 21-02-2026			Test Report No.: RN-240930003WW01		
Sample ID: 260218PE01001			Sample Description: Waste Water (Effluent)		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block , 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: I.S.17614(Part-1):2025			Sampling Date:18-02-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK # 09					
Field Meteorological Information		A. Temp. (°C): 24	R.H. (%): 59	W.C.: Semi-Cloudy	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 18-02-2026		Testing Started: 18-02-2026		Testing Ended: 21-02-2026	

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	4.68
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pashp.
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh)
Dy. Technical Manager

(Signature)
(Dr. S. C. Jain)
Director

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Ranchi-834002, Jharkhand, India

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



IC-18118

TEST REPORT

ULR No.:	T	C	1	6	1	3	3	2	6	0	0	0	0	0	0	3	0	6
Discipline: Chemical	Group: Pollution & Environment									Sub-Group: Waste Water								
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003WW02																	
Sample ID: 260218PE01002	Sample Description: Waste Water (Effluent)																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Name and Contact Details of Customer: P & C Dept.																		
Email id.: pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any): N/A																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: IS.17614(Part-1):2025									Sampling Date: 18-02-2026									
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 10																		
Field Meteorological Information			A. Temp. (°C): 24			R.H. (%): 59			W.C.: Semi-Cloudy			W.D.: SW to NE						
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 18-02-2026						Testing Started: 18-02-2026						Testing Ended: 21-02-2026						

Test Results

SL No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	7.7
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.1
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	26
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	812
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	20.7
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	44
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	22
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	83
13.	Sodium	mg/l	IS 3025 (Part-24)	--	176.6

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh)

Dy. Technical Manager

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

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TC 15125

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	950
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	5
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.31
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (--- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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	 (Akanksha Sourabh) Dy. Technical Manager	 (Dr. S. C. Jain) Director

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INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Laboratory Site - H No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harma Housing Colony,

Ranchi-834002, Jharkhand, India

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



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 21-02-2026			Test Report No.: RN-240930003WW02		
Sample ID: 260218PE01002			Sample Description: Waste Water (Effluent)		
Challan No./P.O. No.: N/A			Challan No./ P.No, Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhacenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: IS.17614(Part-1):2025			Sampling Date:18-02-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK # 10					
Field Meteorological Information		A. Temp. (°C): 24	R.H. (%): 59	W.C.: Semi-Cloudy	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 18-02-2026		Testing Started: 18-02-2026		Testing Ended: 21-02-2026	

----Test Results----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	5.03
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Signature)

(Signature)

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



IC-AC135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	9	0	0	0	0	0	2	9	7
Discipline: Chemical					Group: Pollution & Environment					Sub-Group: Waste Water							
Report Issue Date: 21-02-2026					Test Report No.: RN-240930003WW03												
Sample ID: 260218PE01003					Sample Description: Waste Water (Effluent)												
Challan No./P.O. No.: N/A					Challan No./ P.No. Date: 30-09-2024												
Name and Contact Details of Customer: P & C Dept.																	
Email id.- pne.ranchi@prabhaenergy.com																	
Prabha Energy Ltd.(PEL), NK CBM Block,																	
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																	
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																	
Information obtained from customer (if any): N/A																	
Type of Industry: Energy									Condition of Sample: Fit For Test								
Sampling Protocol: I.S.17614(Part-1):2025									Sampling Date:18-02-2026								
Protocol: CPCB Guideline & IS Method 3025 Series																	
Sampling Location: NK # 34																	
Field Meteorological Information			A. Temp. (°C): 24			R.H. (%): 59			W.C.: Semi-Cloudy			W.D.: SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																	
Sample Receiving Date: 18-02-2026					Testing Started: 18-02-2026					Testing Ended: 21-02-2026							

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	6.2
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.3
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	8
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	437
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	16.3
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	28
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	7.6
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	47
13.	Sodium	mg/l	IS 3025 (Part-24)	--	44.1

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Reviewed by

Authorized Signatory

(Signature)
(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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

Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - iem7012@rediffmail.com



TC 10126

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	465
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.39
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water, (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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 _____

(Signature)
(Akanksha Sourabh)

Dy. Technical Manager

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

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001
Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi 834002, Jharkhand, India
Ph - 8407804253, 8407804251, Email - iem2017@rediffmail.com



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 21-02-2026			Test Report No.: RN-240930003WW03		
Sample ID: 260218PE01003			Sample Description: Waste Water (Effluent)		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: IS.17614(Part-1):2025			Sampling Date:18-02-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK @ 34					
Field Meteorological Information		A. Temp. (°C): 24		R.H. (%): 59	W.C.: Semi-Cloudy
W.D.: SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 18-02-2026		Testing Started: 18-02-2026		Testing Ended: 21-02-2026	

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	5.12
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (--- Indicates not mentioned in CPCB guidelines)
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pashp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)
(Akanksha Sourabh)

Dy. Technical Manager

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

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



IC-44925

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	5	0	8
Discipline: Chemical									Group: Pollution & Environment						Sub-Group: Waste Water			
Report Issue Date: 21-02-2026									Test Report No.: RN-240930003WW04									
Sample ID: 260218PE01004									Sample Description: Waste Water (Effluent)									
Challan No./P.O. No.: N/A									Challan No./ P.No. Date: 30-09-2024									
Name and Contact Details of Customer: P & C Dept. Email id.- pne.ranchi@prabhaenergy.com Prabha Energy Ltd (PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any): N/A																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: I.S.17614(Part-1):2025									Sampling Date:18-02-2026									
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 6																		
Field Meteorological Information			A. Temp. (°C): 24				R.H. (%): 59				W.C.: Semi-Cloudy				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 18-02-2026									Testing Started: 18-02-2026						Testing Ended: 21-02-2026			

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	6.3
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.2
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	34
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	583
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	11.7
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	24
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	6.6
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	46
13.	Sodium	mg/l	IS 3025 (Part-24)	--	78.3

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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

(Signature)

(Akanksha Sourabh)

Dy. Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TC-16105

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	659
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.41
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water, (-/- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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	 (Akanksha Sourabh) Dy. Technical Manager	 (Dr. S. C. Jain) Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 21-02-2026			Test Report No.: RN-240930003 WW04		
Sample ID: 260218PE01004			Sample Description: Waste Water (Effluent)		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: I.S.17614(Part-1):2025			Sampling Date:18-02-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK # 6					
Field Meteorological Information		A. Temp. (°C): 24		R.H. (%): 59	
				W.C.: Semi-Cloudy	
				W.D.: SW to NE	
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 18-02-2026		Testing Started: 18-02-2026		Testing Ended: 21-02-2026	

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	5.31
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water, (--- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)
(Akanksha Sourabh)

Dy. Technical Manager

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

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhowari, Harmu Housing Colony,

Ranchi 834002, Jharkhand, India

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



TC-40436

TEST REPORT

ULR No.:	1	0	1	6	1	3	5	2	6	0	0	0	0	0	0	0	0	0	0										
Discipline: Chemical	Group: Pollution & Environment									Sub-Group: Waste Water																			
Report Issue Date: 21-02-2026										Test Report No.: RN-240930003WW05																			
Sample ID: 260218PE01005										Sample Description: Waste Water (Effluent)																			
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024																			
Name and Contact Details of Customer: P & C Dept.																													
Email id:- pnc.ranchi@prabhaenergy.com																													
Prabha Energy Ltd.(PEL), NK CBM Block,																													
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																													
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																													
Information obtained from customer (if any): N/A																													
Type of Industry: Energy										Condition of Sample: Fit For Test																			
Sampling Protocol: I.S.17614(Part-1):2025										Sampling Date: 18-02-2026																			
Protocol: CPCB Guideline & IS Method 3025 Series																													
Sampling Location: NK # 40																													
Field Meteorological Information					A. Temp. (°C): 24					R.H. (%): 59					W.C.: Semi-Cloudy					W.D.: SW to NE									
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																													
Sample Receiving Date: 18-02-2026										Testing Started: 18-02-2026										Testing Ended: 21-02-2026									

---Test Results---

SL No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	---	IS 3025 (Part-11)	5.5 to 9.0	7.3
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	27.1
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	28
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	584
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	16.5
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	32
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	11.5
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	39
13.	Sodium	mg/l	IS 3025 (Part-24)	--	87.6

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh)

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

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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

Ranchi-834002, Jharkhand, India

Ph - 8407804253, 8407804251, Email - lem2012@rediffmail.com



YC-18133

TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL(MDL-0.2)
16.	Total Solid	mg/l	IS 3025	—	640
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL(MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.34
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL(MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (— Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pashp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by Authorized Signatory

(Signature)
(Akanksha Sourabh)

Dy. Technical Manager

(Signature)
Dy. S. C. Jain

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834001
Laboratory Site - H.No. - A 13, Saket Vihar, Near Sohrai Bhawan, Harmu Housing Colony,
Ranchi-834002, Jharkhand, India
Ph - 8407804253, 8407804251, Email - iem2012@gmail.com



TEST REPORT

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003WW05	
Sample ID: 260218PE01005	Sample Description: Waste Water (Effluent)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any): N/A		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: I.S.17614(Part-1):2025	Sampling Date:18-02-2026	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 40		
Field Meteorological Information	A. Temp. (°C): 24	R.H. (%): 59
	W.C.: Semi-Cloudy	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	5.26
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants. Part-A: Effluent for Inland Surface Water. (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

ULR No.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water																			
Report Issue Date: 21-02-2026															Test Report No.: RN-240930003WW07															
Sample ID: 260218PE01007															Sample Description: Waste Water (Effluent)															
Challan No./P.O. No.: N/A															Challan No./ P.No. Date: 30-09-2024															
Name and Contact Details of Customer: P & C Dept.																														
Email id.- pnc.ranchi@prabhaenergy.com																														
Prabha Energy Ltd.(PEL), NK CBM Block,																														
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																														
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																														
Information obtained from customer (if any): N/A																														
Type of Industry: Energy															Condition of Sample: Fit For Test															
Sampling Protocol: IS.17614(Part-1):2025															Sampling Date: 18-02-2026															
Protocol: CPCB Guideline & IS Method 3025 Series																														
Sampling Location: NK # 64																														
Field Meteorological Information										A. Temp. (°C): 24					R.H. (%): 59					W.C.: Semi-Cloudy					W.D.: SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																														
Sample Receiving Date: 18-02-2026										Testing Started: 18-02-2026										Testing Ended: 21-02-2026										

---Test Results---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	6.5
2.	Temperature	°C	APHA 3111 B:2023	Shall not exceed 5°C above the receiving water temp.	26.9
3.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	38
4.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)	--	615
5.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	23.6
6.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	92
7.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	9.8
8.	Copper	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
9.	Lead	mg/l	APHA: 3111B:2023	0.1	BDL(MDL-0.2)
10.	Zinc	mg/l	APHA: 3111B:2023	5.0	BDL(MDL-0.2)
11.	Nickel	mg/l	APHA: 3111B:2023	3.0	BDL(MDL-0.2)
12.	Chloride	mg/l	IS 3025 (Part-32)	--	49
13.	Sodium	mg/l	IS 3025 (Part-24)	--	44.18

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Reviewed by

Authorized Signatory

(Signature)

(Akanksha Sourabh)

Dy. Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
14.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL (MDL-0.05)
15.	Total Chromium	mg/l	APHA: 3111B.2023	2.0	BDL (MDL-0.2)
16.	Total Solid	mg/l	IS 3025	--	656
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	1.0	BDL (MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	10	BDL (MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	0.1	BDL (MDL-0.01)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.38
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL (MDL-0.05)
22.	Cyanides	mg/l	IS 3025 (Part-27)	0.2	BDL (MDL-0.1)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (--) Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



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Ranchi-834002, Jharkhand, India

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



TEST REPORT

Discipline: Chemical		Group: Pollution & Environment		Sub-Group: Waste Water	
Report Issue Date: 21-02-2026		Test Report No.: RN-240930003WW07			
Sample ID: 260218PE01007		Sample Description: Waste Water (Effluent)			
Challan No./P.O. No.: N/A		Challan No./ P.No. Date: 30-09-2024			
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Information obtained from customer (if any): N/A					
Type of Industry: Energy			Condition of Sample: Fit For Test		
Sampling Protocol: IS.17614(Part-1):2025			Sampling Date:18-02-2026		
Protocol: CPCB Guideline & IS Method 3025 Series					
Sampling Location: NK # 64					
Field Meteorological Information		A. Temp. (°C): 24		R.H. (%): 39	W.C.: Semi-Cloudy
W.D.: SW to NE					
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 18-02-2026		Testing Started: 18-02-2026		Testing Ended: 21-02-2026	

----Test Results----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
23.	Salinity	-	APHA 2520 B:2023	--	4.93
24.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)

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	Schedule-VI General Standard for discharge of environmental pollutants, Part-A: Effluent for Inland Surface Water. (-- Indicates not mentioned in CPCB guidelines).
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Shubham Pushp
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Ranchi-834002, Jharkhand, India

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



TC-16135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	9	6				
Discipline: Chemical	Group: Atmospheric Pollution										Sub-Group: Stack Emission											
Report Issue Date: 21-02-2025	Test Report No.: RN-240930003S1																					
Sample ID: 260218AP03001	Sample Description: Stack Emission																					
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																					
Name and Contact Details of Customer: P & C Dept.																						
Email id:- pnc.ranchi@prabhaenergy.com																						
Prabha Energy Ltd.(PEL), NK CBM Block,																						
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																						
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																						
Type of Industry: Energy										Condition of Sample: Fit for Test												
Sampling Protocol: IS:11255: 2009										Sampling Date: 17-02-2025												
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																						
Sampling Location: NK#09																						
Field Meteorological Information					A. Temp. (°C): 24					R.H. (%): 59					W.C.: Sunny				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																						
Sample Receiving Date: 17-02-2025					Testing Started: 17-02-2025					Testing Ended: 21-02-2025												

Information obtained from Customer

Stack Identification	NK#09	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	----

Flue Gas Temperature (K): 398 Flue Gas Velocity (m/s): 9.8 Flue Gas Volumetric Flow Rate (Nm³/hr): 128.9

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Norms**
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	0.26	≤0.3
2.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	g/kw-hr	0.44	--
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	0.42	≤3.5

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers:	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh) (Dr. S. C. Jain)

Dy Technical Manager Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 21-02-2025			Test Report No.: RN-24093000351		
Sample ID: 260218AP03001			Sample Description: Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Type of Industry: Energy			Condition of Sample: Fit for Test		
Sampling Protocol: IS:11255: 2009			Sampling Date: 17-02-2025		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Sampling Location: NK#09					
Field Meteorological Information		A. Temp. (°C): 24		R.H. (%): 59	
		W.C.: Sunny		W.D.: SW to NE	
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 17-02-2025		Testing Started: 17-02-2025		Testing Ended: 21-02-2025	

Information obtained from Customer

Stack Identification	NK#09	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	----

Flue Gas Temperature (K): 398	Flue Gas Velocity (m/s): 9.8	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 128.9
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Test Result

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

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 1963:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohral Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

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



TC-16126

TEST REPORT

ULR No.:	1	0	1	5	5	2	6	0	0	0	0	0	0	4	9	7
Discipline: Chemical	Group: Atmospheric Pollution							Sub-Group: Stack Emission								
Report Issue Date: 21-02-2025	Test Report No.: RN-24093000352															
Sample ID: 260218AP03002	Sample Description: Stack Emission															
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024															
Name and Contact Details of Customer: P & C Dept.																
Email id.- pnc.ranchi@prabhaenergy.com																
Prabha Energy Ltd.(PEL), NK CBM Block,																
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																
Type of Industry: Energy	Condition of Sample: Fit for Test															
Sampling Protocol: IS:11255: 2009	Sampling Date: 17-02-2025															
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																
Sampling Location: NK#10																
Field Meteorological Information	A. Temp. (°C): 24				R.H. (%): 59				W.C.: Sunny				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																
Sample Receiving Date: 17-02-2025				Testing Started: 17-02-2025				Testing Ended: 21-02-2025								

Information obtained from Customer

Stack Identification	NK#10	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 396 Flue Gas Velocity (m/s): 10.3 Flue Gas Volumetric Flow Rate (Nm³/hr): 136.5

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Norms**
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	0.23	≤0.3
2.	Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	g/kw-hr	0.46	---
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	0.71	≤3.5

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by Authorized Signatory

(Akanksha Sourabh) (Dr. S. C. Jain)

Dy Technical Manager Director

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INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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



TEST REPORT

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 21-02-2025			Test Report No.: RN-24093000352		
Sample ID: 260718AP03002			Sample Description: Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Type of Industry: Energy			Condition of Sample: Fit for Test		
Sampling Protocol: IS:11255: 2009			Sampling Date: 17-02-2025		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Sampling Location: NK#10					
Field Meteorological Information		A. Temp. (°C): 24	R.H. (%): 59	W.C.: Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 17-02-2025		Testing Started: 17-02-2025		Testing Ended: 21-02-2025	

Information obtained from Customer

Stack Identification	NK#10	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 396	Flue Gas Velocity (m/s): 10.3	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 136.5
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Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Limits
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	0.35	---
5.	Smoke Limit	IEM/SOP/AIR	m-1	<1	<0.7

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Signature)
(Akanksha Sourabh)

Dy Technical Manager

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

Director

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INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Ranchi-834002, Jharkhand, India

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



TC-16125

TEST REPORT

ULR No.:	1	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	9	8				
Discipline: Chemical	Group: Atmospheric Pollution										Sub-Group: Stack Emission											
Report Issue Date: 21-02-2025	Test Report No.: RN-240930003S3																					
Sample ID: 260218AP03003	Sample Description: Stack Emission																					
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																					
Name and Contact Details of Customer: P & C Dept.																						
Email id.- pne.ranchi@prabhaenergy.com																						
Prabha Energy Ltd.(PEL), NK CBM Block,																						
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																						
Landmark: Above Bank Of India, Ranchi, Jharkhand 834002																						
Type of Industry: Energy										Condition of Sample: Fit for Test												
Sampling Protocol: IS:11255: 2009										Sampling Date: 17-02-2025												
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																						
Sampling Location: NK#13																						
Field Meteorological Information										A. Temp. (°C): 24				R.H. (%): 59				W.C.: Sunny				W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																						
Sample Receiving Date: 17-02-2025					Testing Started: 17-02-2025					Testing Ended: 21-02-2025												

Information obtained from Customer

Stack Identification	NK#13	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 393 Flue Gas Velocity (m/s): 10.6 Flue Gas Volumetric Flow Rate (Nm³/hr): 141.0

Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Norms**
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	0.24	≤0.3
2.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	g/kw-hr	0.37	---
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	0.67	≤3.5

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)
(Akanksha Sourabh)

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

Dy Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Solrai Bhawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

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



TEST REPORT

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 21-02-2025			Test Report No.: RN-24092000282		
Sample ID: 260218AP03003			Sample Description: Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishabh Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Type of Industry: Energy			Condition of Sample: Fit for Test		
Sampling Protocol: IS:11255: 2009			Sampling Date: 17-02-2025		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Sampling Location: NK#13					
Field Meteorological Information		A. Temp. (°C): 24	R.H. (%): 59	W.C.: Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 17-02-2025		Testing Started: 17-02-2025		Testing Ended: 21-02-2025	

Information obtained from Customer

Stack Identification	NK#13	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	----

Flue Gas Temperature (K): 393	Flue Gas Velocity (m/s): 10.6	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 141.0
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Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Limits
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	0.37	---
5.	Smoke Limit	IEM/SOP/AIR	m-1	<1	≤0.7

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajcey Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by	Authorized Signatory
 (Akanksha Sourabh) Dy Technical Manager	 (Dr. S. C. Jain) Director

----End of Report----



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TC-18118

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	9	9
Discipline: Chemical					Group: Atmospheric Pollution										Sub-Group: Stack Emission			
Report Issue Date: 21-02-2025										Test Report No.: RN-240930003S4								
Sample ID: 260218AP03004										Sample Description: Stack Emission								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024								
Name and Contact Details of Customer: P & C Dept.																		
Email id.- pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Type of Industry: Energy										Condition of Sample: Fit for Test								
Sampling Protocol: IS:11255: 2009										Sampling Date: 17-02-2025								
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																		
Sampling Location: NK#6																		
Field Meteorological Information			A. Temp. (°C): 24				R.H. (%): 59				W.C.: Sunny				W.D.: SW to NE			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving Date: 17-02-2025							Testing Started: 17-02-2025							Testing Ended: 21-02-2025				

Information obtained from Customer

Stack Identification	NK#6	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 413	Flue Gas Velocity (m/s): 10.3	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 130.7
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Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Norms**
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	0.25	≤0.3
2.	Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	g/kw-hr	0.68	---
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	0.66	≤3.5

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by	Authorized Signatory
<i>(Signature)</i>	<i>(Signature)</i>
(Akanksha Sourabh)	(Dr. S. C. Jain)
Dy Technical Manager	Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Stack Emission
Report Issue Date: 21-02-2025	Test Report No.: RN-24093000354	
Sample ID: 260218AP03004	Sample Description: Stack Emission	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id:- pne.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Type of Industry: Energy	Condition of Sample: Fit for Test	
Sampling Protocol: IS:11255: 2009	Sampling Date: 17-02-2025	
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series		
Sampling Location: NK#6		
Field Meteorological Information	A. Temp. (°C): 24	R.H. (%): 59
	W.C.: Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving Date: 17-02-2025	Testing Started: 17-02-2025	Testing Ended: 21-02-2025

Information obtained from Customer

Stack Identification	NK#6	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 413	Flue Gas Velocity (m/s): 10.3	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 130.7
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Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Limits
4.	Total Hydrocarbon (THC)	IEM/SOP/AIR	g/kw-hr	0.35	---
5.	Smoke Limit	IEM/SOP/AIR	m-1	<1	≤0.7

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by	Authorized Signatory
(Akanksha Sourabh)	(Dr. S. C. Jain)
Dy Technical Manager	Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC-18/18

TEST REPORT

ULR No.:	1	C	1	6	1	3	5	2	6	0	0	0	0	0	0	0	0	0	0					
Discipline: Chemical	Group: Atmospheric Pollution										Sub-Group: Stack Emission													
Report Issue Date: 21-02-2025	Test Report No.: RN-24093000385																							
Sample ID: 260218AP03005	Sample Description: Stack Emission																							
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																							
Name and Contact Details of Customer: P & C Dept.																								
Email id - pne.ranchi@prabhaenergy.com																								
Prabha Energy Ltd.(PEL), NK CBM Block,																								
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																								
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																								
Type of Industry: Energy										Condition of Sample: Fit for Test														
Sampling Protocol: IS:11255: 2009										Sampling Date: 17-02-2025														
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series																								
Sampling Location: GCGDU																								
Field Meteorological Information					A. Temp. (°C): 24					R.H. (%): 59					W.C.: Sunny					W.D.: SW to NE				
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																								
Sample Receiving Date: 17-02-2025					Testing Started: 17-02-2025					Testing Ended: 21-02-2025														

Information obtained from Customer

Stack Identification	GCGDU	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 403	Flue Gas Velocity (m/s): 10.9	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 142.1
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Test Result

Sl. NO.	Parameters	Test Methods	Unit	Result	Norms**
1.	Particulates Matter (PM)	IS 11255 (Part-1)	g/kw-hr	0.27	≤0.3
2.	Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	g/kw-hr	0.51	---
3.	Carbon Monoxide (CO)	IS 13270	g/kw-hr	0.73	≤3.5

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 the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by	Authorized Signatory
(Akanksha Sourabh)	(Dr. S. C. Jain)
Dy Technical Manager	Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TEST REPORT

Discipline: Chemical		Group: Atmospheric Pollution		Sub-Group: Stack Emission	
Report Issue Date: 21-02-2025			Test Report No.: RN-24092000353		
Sample ID: 260218AP03005			Sample Description: Stack Emission		
Challan No./P.O. No.: N/A			Challan No./ P.No. Date: 30-09-2024		
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002					
Type of Industry: Energy			Condition of Sample: Fit for Test		
Sampling Protocol: IS:11255: 2009			Sampling Date: 17-02-2025		
Protocol: CPCB Guideline (LATS/80/2013-14) & IS Method 11255 Series					
Sampling Location: GCGDU					
Field Meteorological Information		A. Temp. (°C): 24	R.H. (%): 59	W.C.: Sunny	W.D.: SW to NE
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi					
Sample Receiving Date: 17-02-2025		Testing Started: 17-02-2025		Testing Ended: 21-02-2025	

Information obtained from Customer

Stack Identification	GCGDU	Sampling Port	Available
Plat Form	Temporary	Stack Height from Ground Level (m)	1.828
Stack Description	Single	Port Hole Height from Ground Level (m)	1.828
Shape of Stack	Circular	Inner Dimension of Stack (m)	0.08
Construction Material	MS	Pollution Control Device (if any)	---

Flue Gas Temperature (K): 403	Flue Gas Velocity (m/s): 10.9	Flue Gas Volumetric Flow Rate (Nm ³ /hr): 142.1
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Test Result

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

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(I).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per the IS Method 11255 Series.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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	 (Akanksha Sourabh) Dy Technical Manager	 (Dr. S. C. Jain) Director

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

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



TC 12122

TEST REPORT

U/LR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	8	6		
Discipline: Chemical	Group: Atmospheric Pollution									Sub-Group: Ambient Air										
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A01																			
Sample ID: 260218AP01001	Sample Description: Ambient Air																			
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																			
Name and Contact Details of Customer: P & C Dept.																				
Email id:- pnc.ranchi@prabhaenergy.com																				
Prabha Energy Ltd (PEL), NK CBM Block,																				
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																				
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																				
Information obtained from customer (if any):																				
Type of Industry: Energy									Condition of Sample: Fit For Test											
Sampling Protocol: IS:5182									Sampling Date: 17-02-2026 to 18-02-2026											
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																				
Sampling Location: NK # 09																				
Field Meteorological Information									A. Temp. (°C): 23			R.H. (%): 56			W.C.: Sunny			W.D.: SE to NW		
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																				
Sample Receiving date: 18-02-2026									Testing Started: 18-02-2026					Testing Ended: 21-02-2026						

---Test Results---

SLNo.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	65.9
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	31.4
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	24.1
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	43.6
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	39.3
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	25.2
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Akanksha Sourabh) (Dr. S. C. Jain)
Dy. Technical Manager Director

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INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhiawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

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



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A01	
Sample ID: 260218AP01001	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS-5182	Sampling Date: 17-02-2026 to 18-02-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 09		
Field Meteorological Information	A. Temp. (°C): 23	R.H. (%): 56
	W.C.: Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date:18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---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	02	BDL (MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)

(Akanksha Sourabh)

Dy. Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bihawan, Harmu Housing Colony,

Ranchi-834002, Jharkhand, India

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



TC-18133

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	8	7
Discipline: Chemical	Group: Atmospheric Pollution									Sub-Group: Ambient Air								
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A02																	
Sample ID: 260218AP01002	Sample Description: Ambient Air																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Name and Contact Details of Customer: P & C Dept.																		
Email id - pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishabh Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (If any):																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: IS:5182									Sampling Date: 17-02-2026 to 18-02-2026									
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																		
Sampling Location: NK # 10																		
Field Meteorological Information																		
A. Temp. (°C): 23					R.H. (%): 56					W.C.: Sunny					W.D.: SE to NW			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving date:18-02-2026									Testing Started: 18-02-2026					Testing Ended: 21-02-2026				

---Test Results---

SLNo.	Parameters	Test Method No.	Unit	Norms**	Results
1.	Particulate Matter (PM ₁₀)	IS 5182 Part 23:2006	µg/m ³	100	61.3
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	28.5
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	21.6
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	40.1
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	36.7
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	31.8
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

Akanksha Sourabh

Dr. S. C. Jain

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

Ranchi-834002, Jharkhand, India

Ph - 8407804252, 8407804251, Email - jem2012@rediffmail.com



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A02	
Sample ID: 260218AP01002	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 17-02-2026 to 18-02-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 10		
Field Meteorological Information	A. Temp. (°C): 23	R.H. (%): 56
	W.C.: Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date:18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---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	02	BDL (MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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

Reviewed by

Authorized Signatory

Akanksha Sourabh

Dr. S. C. Jain

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Ranchi-834002, Jharkhand, India

Ph: 8407804253, 8407804251, Email: icm7012@rediffmail.com



IC-18135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	8	8	
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Air										
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A03																		
Sample ID: 260218AP01003	Sample Description: Ambient Air																		
Challan No./P.O. No.: N/A	Challan No./P.No. Date: 30-09-2024																		
Name and Contact Details of Customer: P & C Dept.																			
Email id.- pnc.ranchi@prabhaenergy.com																			
Prabha Energy Ltd.(PEL), NK CBM Block,																			
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																			
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																			
Information obtained from customer (if any):																			
Type of Industry: Energy	Condition of Sample: Fit For Test																		
Sampling Protocol: IS:5182	Sampling Date: 17-02-2026 to 18-02-2026																		
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																			
Sampling Location: NK # 13																			
Field Meteorological Information	A. Temp. (°C): 23					R.H. (%): 56					W.C.: Sunny					W.D.: SE to NW			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																			
Sample Receiving date: 18-02-2026					Testing Started: 18-02-2026					Testing Ended: 21-02-2026									

---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	68.5
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	33.1
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	27.4
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	50.3
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	31.8
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	27.6
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature)

(Akanksha Sourabh)

Dy Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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Laboratory Site - H.No. - A-13, Saket Vihar, Near Sohrai Bhawan, Hermu Housing Colony,

Ranchi-834002, Jharkhand, India

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



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A03	
Sample ID: 260218AP01003	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 17-02-2026 to 18-02-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 13		
Field Meteorological Information	A. Temp. (°C): 23	R.H. (%): 56
	W.C.: Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date:18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---Test Results---

SLNo.	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	02	BDL (MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Akanksha Sourabh)

(Dr. S. C. Jain)

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TC-46135

TEST REPORT

ULR No.:	T	C	1	6	1	3	5	2	6	0	0	0	0	0	0	4	8	9
Discipline: Chemical	Group: Atmospheric Pollution									Sub-Group: Ambient Air								
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A04																	
Sample ID: 260218AP01004	Sample Description: Ambient Air																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Name and Contact Details of Customer: P & C Dept.																		
Email id - pnc.ranchi@prabhaenergy.com																		
Prabha Energy Ltd.(PEL), NK CBM Block,																		
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																		
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																		
Information obtained from customer (if any):																		
Type of Industry: Energy									Condition of Sample: Fit For Test									
Sampling Protocol: IS:5182									Sampling Date: 17-02-2026 to 18-02-2026									
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																		
Sampling Location: NK # 34																		
Field Meteorological Information																		
A. Temp. (°C): 23					R.H. (%): 56					W.C.: Sunny					W.D.: SE to NW			
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi																		
Sample Receiving date:18-02-2026					Testing Started: 18-02-2026					Testing Ended: 21-02-2026								

---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	66.2
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	32.3
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	25.8
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	42.5
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	38.6
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	29.1
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by

Authorized Signatory

(Signature)
(Akanksha Sourabh)

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

Dy. Technical Manager

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A04	
Sample ID: 260218AP01004	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id:- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block, 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 17-02-2026 to 18-02-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 34		
Field Meteorological Information	A. Temp. (°C): 23	R.H. (%): 56
	W.C.: Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date: 18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---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	02	BDL (MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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Reviewed by _____ Authorized Signatory

(Signature)

(Akanksha Sourabh)

Dy. Technical Manager

(Signature)

(Dr. S. C. Jain)

Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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

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



IC-10133

TEST REPORT

ULR No.:	1	C	1	6	1	3	5	2	6	0	0	0	0	0	4	9	0
Discipline: Chemical	Group: Atmospheric Pollution								Sub-Group: Ambient Air								
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A05																
Sample ID: 260218AP01005	Sample Description: Ambient Air																
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																
Name and Contact Details of Customer: P & C Dept.																	
Email id:- pnc.ranchi@prabhaenergy.com																	
Prabha Energy Ltd.(PEL), NK CBM Block,																	
4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4																	
Landmark Above Bank Of India, Ranchi, Jharkhand 834002																	
Information obtained from customer (if any):																	
Type of Industry: Energy	Condition of Sample: Fit For Test																
Sampling Protocol: IS-5182	Sampling Date: 17-02-2026 to 18-02-2026																
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																	
Sampling Location: GCGDU																	
Field Meteorological Information	A. Temp. (°C): 23				R.H. (%): 56				W.C.: Sunny				W.D.: SE to NW				
Location of performance of the Laboratory Activity: JEM Laboratory, Ranchi																	
Sample Receiving date:18-02-2026				Testing Started: 18-02-2026				Testing Ended: 21-02-2026									

---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	67.1
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	32.6
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	28.7
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	48.2
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	32.9
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	100	33.3
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)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev Singh & team
Disclaimers	- The results relate only to the item tested, calibrated or sampled. - Additions to, deviations, or exclusions from the method is not practiced if not mentioned. - Results from external providers are not used if not specified.

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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

(Signature) *(Signature)*

(Akanksha Sourabh) (Dr. S. C. Jain)

Dy. Technical Manager Director

---End of Report---



INSTITUTE FOR ENVIRONMENTAL MANAGEMENT

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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



TEST REPORT

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Ambient Air
Report Issue Date: 21-02-2026	Test Report No.: RN-240930003A05	
Sample ID: 260218AP01005	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Name and Contact Details of Customer: P & C Dept. Email id.- pnc.ranchi@prabhaenergy.com Prabha Energy Ltd.(PEL), NK CBM Block , 4th Floor, Rishab Complex Opposite Ashok Nagar Road No.4 Landmark Above Bank Of India, Ranchi, Jharkhand 834002		
Information obtained from customer (if any):		
Type of Industry: Energy	Condition of Sample: Fit For Test	
Sampling Protocol: IS:5182	Sampling Date: 17-02-2026 to 18-02-2026	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: GCGDU		
Field Meteorological Information	A. Temp. (°C): 23	R.H. (%): 56
	W.C.: Sunny	W.D.: SE to NW
Location of performance of the Laboratory Activity: IEM Laboratory, Ranchi		
Sample Receiving date:18-02-2026	Testing Started: 18-02-2026	Testing Ended: 21-02-2026

---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	02	BDL(MDL-1.8)
12.	Benzene (C ₆ H ₆)	IS 5182 Part 11	µg/m ³	---	BDL (MDL- 0.06)

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.
Remark	Sample Comply with prescribed specification.
Opinion & Interpretation	Not Practiced.
Tested by	Anjali Kumari
Sample Drawn by	Rajeev 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

(Akanksha Sourabh)

Dy. Technical Manager

Authorized Signatory

(Dr. S. C. Jain)

Director

---End of Report---