



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

PEL/NKCBM/HSE/MOEFCC/2024/01

18th November 2024

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

Subject: Six Monthly Compliance Report of "Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand" for the period ending 30th September 2024.

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

Dear Sir,

Kindly find attached here with the six monthly compliance report with respect to the above EC for favor of your kind information.

Thanking you.

Yours truly,

For Prabha Energy Limited



(Dr S.K. Singh)

(Sr. VP-Operations)

Enclosure: Six Monthly Compliance Report (Period ending 30th September 2024) along with

- 1) Annexure 1- Ambient Air Quality report
- 2) Annexure 2- Noise report
- 3) Annexure 3- Ground water report
- 4) Annexure 4- Effluent water report
- 5) Annexure 5- Copy of Environment Clearance
- 6) Annexure 6- Environmental Statement for 31.03.2024
- 7) Annexure 7- Certificate of Incorporation Consequent upon conversion to public company.

CC:

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 | **CIN:** U40102 GJ2009 PLC 057716

EC Compliance Report - Development of North Karanpura Coalbed Methane (CBM) Block (NK-CBM-2001/1) of ONGC/PEL/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 from MoEFCC

Period of Compliance Report: Six monthly compliance report for the period April 2024 to September 2024

SNo.	Conditions/ Guide lines	Status of Compliance
Page - 1		
Specific Conditions		
1	<p>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.</p>	<p>Land compensation on approved lease rental is being regularly paid to the land acquired earlier by Prabha Energy Limited on behalf of the consortium of ONGC-IOCL-PEL. Since only small patches of land are required, the land acquisition process does not cause any displacement and therefore no RR is required.</p>
2	<p>The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.</p>	<p>Surface facilities are under installation as per the OMR 2017 and OISD codes and standards and international practices.</p>
3	<p>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.</p>	<p>• 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. • All efforts shall be made to improve the ambient air quality of the NK Block area. All installed DGs and GGs are Environmental Friendly in NK Block.</p>
4	<p>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.</p>	<p>Currently no drilling activities is carried out at NK CBM Block and apart of operations Workover, Production Operations (Dewatering) and Pipeline is carrying out in limited area of the Block for Apr 2024 to Sep 2024. Overhead flare is constructed as per oilfield practices and OISD guidelines. • 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.</p>



EC COMPLIANCES - NK-CBM-2001/1		Status of Compliance
SNo.	Conditions/ Guide lines	
Specific Conditions (Contd.)		
5	<p>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.</p>	<ul style="list-style-type: none"> • M/S Institute for Environmental Management, a NABL accredited laboratory, has been engaged for periodic noise monitoring. Results of noise monitoring for this quarter are given in Annexure-2. • All DG/GG sets have proper acoustic enclosures and meet the norms notified by MOEFCC. • Height of all the stacks/vents is kept as per the CPCB guidelines. • Ambient noise data show that day and night levels are within the permissible limits as per Noise Rules and Regulations.
6	<p>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.</p>	<p>No drilling operation is carried out in the period of Apr 2024 to Sep 2024.</p>
7	<p>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.</p>	<p>As per the permission of Environmental Clearance (EC), requirement of total fresh water does not exceed 25 cum/day for each well during drilling phase.</p>
8	<p>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.</p>	<ul style="list-style-type: none"> • Drill cuttings was stored onsite in impervious HDPE lined pits for solar evaporation and drying. • The produced water conforms to CPCB norms and was stored onsite in HDPE lined pits for solar evaporation and reuse in drilling of new wells. • Effluents if any, will be treated, as per the CPCB standards. • Domestic effluents are disposed off through septic tanks followed by soak pit.



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. 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.	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. <ul style="list-style-type: none"> • Drilling waste water including drill cuttings, wash water are always collected in disposal pits lined with HDPE lining and naturally evaporated. • However, Drilling operations in North Karanpura CBM Block had been suspended from April 2024 to September 2024 due to future planning and preparations. Effluent water analysis reports are given in Annexure-4. <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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. • No ground flaring is carried out at NK CBM Block.
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 possibility of ingress of air into coal seams during CBM operations. Proper Risk analysis is always done with Gas Detectors for detection of CH ₄ and H ₂ S. However in CBM, there is absolutely no chance of H ₂ S emission as it is not present in coal seams.



EC COMPLIANCES - NK-CBM-2001/1		Status of Compliance
SNo.	Conditions/ Guide lines	
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.	Currently no drilling activities is carried out at NK CBM Block and apart of operations Workover, Production Operations (Dewatering) and Pipeline is carrying out in limited area of the Block for Apr 2024 to Sep 2024. All suggested specifications have been included in the tender document and company shall ensure that all the standards will be followed when production operations start.
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.
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) is always installed while performing drilling or well completion operations as per OMR-2017 and OISD-174.
17	The top soil removed shall be stacked separately for reuse during restoration process.	<ul style="list-style-type: none"> Top soil is not removed during any activity of CBM exploration in North Karanpura CBM block. However in future, whenever laying of pipelines in ROU will be carried out, the top soil (if available) will be preserved and re-used after pipeline laying work is completed.
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 OISD, DGMS and Govt of India. 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.	The environmental protection and risk mitigation measures and safeguards recommended in the various studies viz. EIA/EMP/Disaster Management Plan/Crisis Management Plan are implemented 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.	No drilling operation is carried out in the period of Apr 2024 to Sep 2024.
21	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Occupational health surveillance of the workers in NK CBM Block is being carried out periodically as per prevailing Acts and Rules.
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.	<ul style="list-style-type: none"> • 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

SL.NO.	Conditions/ Guide lines	Status of Compliance
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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Currently no drilling activities is carried out at NK CBM Block and apart of operations Workover, Production Operations (Dewatering) and Pipeline is carrying out in limited area of the Block for Apr 2024 to Sep 2024. GCS is planned to be set up in this phase. After setting up of Gas Collection Stations, 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 & down- wind 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 kept 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		Status of Compliance
SNo.	Conditions/ Guide lines	
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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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 Parisad/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.



General Conditions (Contd.)

SNo.	Conditions/ Guide lines	Status of Compliance
12	<p>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.</p>	<ul style="list-style-type: none"> • 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	<p>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.</p>	<p>Form - V for financial year ending 31st March 2024 was submitted to the JSPCB and Regional office of MoEFCC at Ranchi. Copy is enclosed in Annexure-6.</p> <p>The earlier Environmental Statements have been uploaded on the web site of PEL, which can be accessed at www.prabhaenergy.com</p>
14	<p>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.</p>	<ul style="list-style-type: none"> • 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	<p>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.</p>	<ul style="list-style-type: none"> • The project Field Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012 • Currently no drilling activities is carried out at NK CBM Block and apart of operations Workover, Production Operations (Dewatering) and Pipeline is carrying out in limited area of the Block for Apr.2024 to Sep 2024.



Annexure-1





Institute for Environmental Management



Test Report

Discipline: Chemical	Group: Atmospheric Pollution	Sub-Group: Source Noise Level		
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003SNL			
Sample ID: 241002AP02001	Sample Description: DG Noise			
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024			
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002				
Type of Industry: Energy	Customer Representative: RANJAN KUMAR			
Sample Drawn by: IEM Team	Sampling Date: 01-10-2024 to 02-10-2024			
Protocol: CPCB Guideline & IS Method 9989:1981				
Sampling Location: NK # 6				
Field Meteorological Information	A. Temp. (°C): 27	R.H. (%): 66	W.C.: Partly Sunny	W.D.: NW to SE
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024		

----Test Result----

Sl. No.	Sampling Location	Sampling Point	Condition	Acoustic Enclosure	Norms**	Result	Incineration Loss [Min.-25 dB(A)]
1.	NK # 6	1 meter from Enclosure Surface	OFF	Yes	--	56.5	25.1dB(A)
2.	NK # 6		ON (Enclosure open)	Yes	--	92.6	
3.	NK # 6		ON (Enclosure Closed)	Yes	75 dB(A)	67.5	

----End Of Reports----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	As per MoEF Notification GSR 371(E), Dated 17th May 2002
Remark	Sample Comply with Prescribed Specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rajeev Singh & team

Specific Contractual Notes :-

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2. This report shall not be reproduced except in full, without written approval of the MD.
3. This report is intended for only guidance and not for legal purpose or for advertisement.
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5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.
6. In case of feedback/ complaints, please send an email at gm.iemeco@gmail.com

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

Reviewed by _____ Authorized Signatory


(Tauqeer Ahmad) _____
Technical Manager


Dr. S. C. Jain
Director

Page 1 of 1

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834002

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



Annexure-2





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	7	7
Discipline: Chemical	Group: Water										Sub-Group: Ground Water							
Report Issue Date: 05-10-2024										Test Report No.: RN-240930003GW1								
Sample ID: 241002WA02001										Sample Description: Ground Water (Near NK# 62)								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024								
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 62																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.5
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	955
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	3.9
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	12
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	105
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	358
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	6
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	60
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	80.4
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	34
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	2.6
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	40.1

----END Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500 :2012
Remark	Sample Comply with prescribed specification.

Tested By: Mahendranath Mahto
Sample Drawn By: Rajeev Singh & team

Specific Contractual Notes :-

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5. Total liability of Institute for Environmental Management will be limited to invoiced amount only.
6. In case of feedback/ complaints, please send an email at gm.iemeco@gmail.com

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

Reviewed by	Authorized Signatory
<i>T. Ahmed</i>	<i>S. C. Jain</i>
(Tauqeer Ahmad)	(S. C. Jain)
Technical Manager	Director

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834002

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: 05-10-2024	Test Report No.: RN-240930003GW1	
Sample ID: 241002WA02001	Sample Description: Ground Water (Near NK# 62)	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 62		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
15.	Arsenic (as AS)	mg/l	APHA: 3114B.2023	--	--	BDL(MDL-0.02)
16.	Mercury	mg/l	APHA: 3112B.2023	--	--	BDL(MDL-0.05)
17.	Fluoride (as F)	mg/l	APHA 4500 D:2017	1.0	1.5	0.25
18.	Copper	mg/l	APHA 3111 B.2017	0.05	1.5	BDL(MDL-0.2)
19.	Lead	mg/l	APHA 3111 B.2017	0.01	No Relaxation	BDL(MDL-0.2)
20.	Iron	mg/l	APHA 3111 B.2017	1	No Relaxation	0.17
21.	Temperature	°C	APHA 3111 B:2023	--	--	28.4
22.	SAR	mg/l	IEM/ SOP/WATER	--	---	4.8
23.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	--	BDL(MDL-0.001)
24.	Chromium	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
25.	Zinc	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
26.	Nickel	mg/l	APHA: 3111B.2023	--	--	BDL(MDL-0.2)
27.	Hexavalent Chromium	mg/l	APHA: 3111 B.2023	--	--	BDL(MDL-0.02)
28.	Salinity	--	APHA 2520 B:2023	--	--	477.5
29.	Lithium	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)
30.	Vanadium (as V)	mg/l	APHA 3500 V B. 2023	--	--	BDL(MDL-0.1)
31.	Cyanides	mg/l	IS 3025 (Part-27)	--	--	BDL(MDL-0.1)
32.	Manganese	mg/l	APHA 3111 B:2023	--	--	BDL(MDL-0.2)

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500 :2012
Remark	Sample Comply with prescribed specification.

Tested By: Mahendranath Mahto

Sample Drawn By: Deepak Singh & Team

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

Reviewed by

T. Ahmad

(Tauqeer Ahmad)

Technical Manager

Authorized Signatory

(Dr. S. C. Jain)

Director





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	7	8
Discipline: Chemical					Group: Water					Sub-Group: Ground Water								
Report Issue Date: 05-10-2024										Test Report No.: RN-240930003GW2								
Sample ID: 241002WA02002										Sample Description: Ground Water (Near NK# 51)								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024								
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 51																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**		Results
				Acceptable	Permissible	
1.	PH Value	---	IS 3025 (Part - 11)	6.5 to 8.5	No Relaxation	6.6
2.	Conductivity	µs/cm	IS 3025 (Part - 14)	--	--	1190
3.	Colour	Hazen	IS 3025 (Part - 04)	5	15	<5
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	--	--	4.7
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	--	--	20
6.	Total Dissolved Solids	mg/l	IS 3025 (Part - 16)	500	2000	872
7.	Calcium (as Ca)	mg/l	IS 3025 (Part - 40)	75	200	123.4
8.	Total Alkalinity (as CaCO ₃)	mg/l	IS 3025 (Part - 23)	200	600	398
9.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	--	--	8
10.	Chloride (as Cl)	mg/l	IS 3025 (Part - 32)	250	1000	126
11.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part - 24)	200	400	97.1
12.	Magnesium (as Mg)	mg/l	APHA 3500 B:2017	30	100	54.4
13.	Dissolved Oxygen	mg/l	IS 3025 (Part - 38)	--	--	4.6
14.	Sodium	mg/l	IS 3025 (Part-45)	--	--	75.2

---END Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	IS 10500 :2012
Remark	Sample Comply with prescribed specification.

Tested By: Mahendranath Mahto
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 _____ Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)
Technical Manager

S. C. Jain
(S. C. Jain)
Director

Page 1 of 2

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



Annexure-3





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	1	6	7	3
Discipline: Chemical	Group: Atmospheric Pollution										Sub-Group: Ambient Air						
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003A01																
Sample ID: 241002AP01001	Sample Description: Ambient Air																
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																	
Type of Industry: Energy									Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team									Sampling Date: 01-10-2024 to 02-10-2024								
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																	
Sampling Location: NK # 6 (GDU Area)																	
Field Meteorological Information						A. Temp. (°C): 27			R.H. (%): 66			W.C.: Partly Sunny			W.D.: NW to SE		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024					

---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	71.4
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	25.6
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	17.1
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	41.0
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	37.8
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	180	20.2
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	0.02
9.	Nickel (Ni)	IS 5182 Part 26	ng/m ³	----	BDL (MDL-4)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

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 _____ Authorized Signatory

T. Ahmad

(Tauqeer Ahmad)

Technical Manager

[Signature]

(Dr. S. C. Jain)

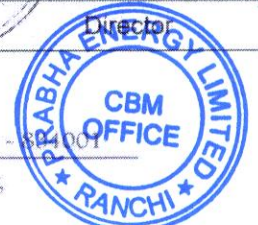
Director

Page 1 of 2

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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: 05-10-2024	Test Report No.: RN-240930003A01			
Sample ID: 241002AP01001	Sample Description: Ambient Air			
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024			
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002				
Type of Industry: Energy	Customer Representative: RANJAN KUMAR			
Sample Drawn by: IEM Team	Sampling Date: 01-10-2024 to 02-10-2024			
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series				
Sampling Location: NK # 6 (GDU Area)				
Field Meteorological Information	A. Temp. (°C): 27	R.H. (%): 66	W.C.: Partly Sunny	W.D.: NW to SE
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024		

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

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rajeev Singh & team

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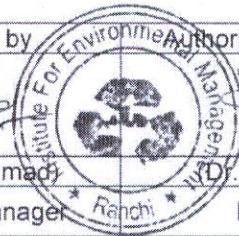
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

Reviewed by _____ Authorized Signatory

T. Ahmad

(Tauqeer Ahmad)

Technical Manager



[Signature]

(Dr. S. C. Jain)

Director





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	7	4				
Discipline: Chemical			Group: Atmospheric Pollution						Sub-Group: Ambient Air													
Report Issue Date: 05-10-2024										Test Report No.: RN-240930003A02												
Sample ID: 241002AP01002										Sample Description: Ambient Air												
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024												
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																						
Type of Industry: Energy										Customer Representative: RANJAN KUMAR												
Sample Drawn by: IEM Team										Sampling Date: 01-10-2024 to 02-10-2024												
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series																						
Sampling Location: NK # 6 (Colony)																						
Field Meteorological Information					A. Temp. (°C): 27				R.H. (%): 66				W.C.: Partly Sunny				W.D.: NW to SE					
Sample Receiving Date: 02-10-2024					Testing Started: 02-10-2024					Testing Ended: 05-10-2024												

---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	65.1
2.	Particulate Matter (PM _{2.5})	IS 5182 Part 24:2019	µg/m ³	60	22.1
3.	Sulphur Dioxide (SO ₂)	IS 5182 Part-02	µg/m ³	80	19.4
4.	Nitrogen Dioxide (NO ₂)	IS 5182 Part-06	µg/m ³	80	45.5
5.	Ammonia (NH ₃)	IS 5182 Part 25	µg/m ³	400	36.0
6.	Ozone (O ₃)	IS 5182 Part 09	µg/m ³	180	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)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rajiv Singh & team

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

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

Page 1 of 2

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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: 05-10-2024	Test Report No.: RN-240930003A02	
Sample ID: 241002AP01002	Sample Description: Ambient Air	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 01-10-2024 to 02-10-2024	
Protocol: CPCB Guideline(NAAQMS/36/2012-13) & IS Method 5182 Series		
Sampling Location: NK # 6 (Colony)		
Field Meteorological Information	A. Temp. (°C): 27	R.H. (%): 66
	W.C.: Partly Sunny	W.D.: NW to SE
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

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

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	National Ambient Air Quality Standards (NAAQS), 2009.
Remark	Sample Comply with prescribed specification.

Tested By: Akanksha Sourabh

Sample Drawn By: Rajeev Singh & team

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Reviewed by

Authorized Signatory

T. Ahmad

(Tauqeer Ahmad)

Technical Manager



Dr. S. C. Jain

Director



Annexure-4





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	1	6	8	1
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water						
Report Issue Date: 05-10-2024										Test Report No.: RN-240930003VW01							
Sample ID: 241002PE01001										Sample Description: Effluent							
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024							
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																	
Type of Industry: Energy										Customer Representative: RANJAN KUMAR							
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024							
Protocol: CPCB Guideline & IS Method 3025 Series																	
Sampling Location: NK # 9																	
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024					

----Test Result----

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
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	8
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		431
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	22.8
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	44
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	18.5
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		46
12.	Sodium	mg/l	IS 3025 (Part-24)		40.05
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966©.
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

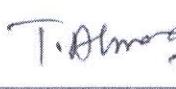

Tested By: Mahendranath Mahto

Sample Drawn By Rajeev Singh & team

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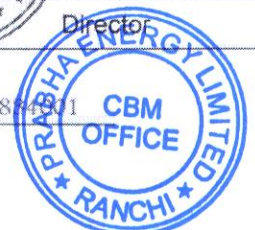
Reviewed by	Authorized Signatory
	
(Tauqeer Ahmad)	Dr. S. C. Jain
Technical Manager	Director

Page 1 of 2

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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: 05-10-2024	Test Report No.: RN-240930003WW01	
Sample ID: 241002PE01001	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 9		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	28.1
16.	Total Solid	mg/l	IS 3025		451
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	7.8
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.35
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	349.5
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--


Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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Reviewed by _____ Authorized Signatory


(Tauqeer Ahmad)

Technical Manager Ranchi


Dr. S. C. Jain

Director

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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





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	2
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024										Test Report No.: RN-240930003VWW02								
Sample ID: 241002PE01002										Sample Description: Effluent								
Challan No./P.O. No.: N/A										Challan No./ P.No. Date: 30-09-2024								
Issued to: PRABHA ENERGY LTD.(PEL), 4 th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 40																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	7.8
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	32
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		596
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	20.6
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	40
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	12.3
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		41
12.	Sodium	mg/l	IS 3025 (Part-24)		89.3
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

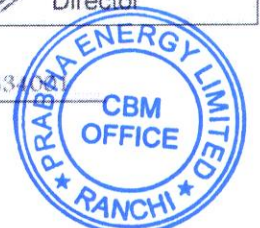
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	<i>T. Ahmed</i>	<i>S. C. Jain</i>
	(Tauqeer Ahmad)	Dr. S. C. Jain)
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.	Technical Manager	Director

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834002

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





Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW02	
Sample ID: 241002PE01002	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4 th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 40		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	28.1
16.	Total Solid	mg/l	IS 3025		640
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.38
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	445.5
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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Reviewed by _____ Authorized Signatory


(Tauqeer Ahmad) 
(Dr. S. C. Jain)

Technical Manager

Director

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Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	3
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW03																	
Sample ID: 241002PE01003	Sample Description: Effluent																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 34																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

----Test Result----

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.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	0.41
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		443
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	18.8
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	32
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	8.6
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		53
12.	Sodium	mg/l	IS 3025 (Part-24)		42.51
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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

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





Institute for Environmental Management



Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW03	
Sample ID: 241002PE01003	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 34		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	28
16.	Total Solid	mg/l	IS 3025		465
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.41
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	340.5
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

---End of Report---



Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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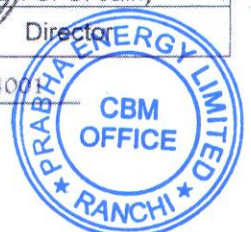
On the basis of Quality Checked and Technical data verified by the Authorized signatory, the report is issued by the Director of the Organization.

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

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Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	4
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW04																	
Sample ID: 241002PE01004	Sample Description: Effluent																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 6																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

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.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	40
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		605
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	13.7
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	28
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	7
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		47
12.	Sodium	mg/l	IS 3025 (Part-24)		80.5
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
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	Authorized Signatory
(Tauqeer Ahmad)	(S. C. Jain)
Technical Manager	Director

Page 1 of 2

Corporate office - A-8, Modi Heights, Opp.-All India Radio Station, Ratu Road, Ranchi, Jharkhand - 834002

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





Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003VW04	
Sample ID: 241002PE01004	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 6		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	27.6
16.	Total Solid	mg/l	IS 3025		659
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.39
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	420
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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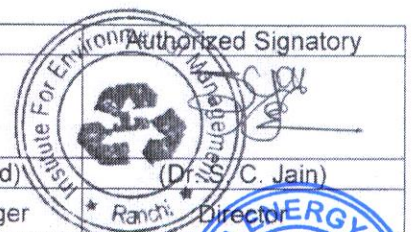
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Reviewed by _____ Authorized Signatory

T. Ahmad

(Tauqeer Ahmad)

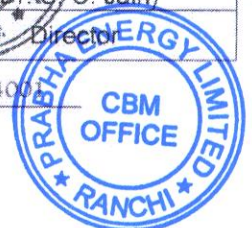
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Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	5
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW05																	
Sample ID: 241002PE01005	Sample Description: Effluent																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 58																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

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.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	27.8
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		1735
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	27
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	124
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	8.1
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		84
12.	Sodium	mg/l	IS 3025 (Part-24)		210.5
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
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 _____ Authorized Signatory

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

Page 1 of 2

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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: 05-10-2024	Test Report No.: RN-240930003WW05	
Sample ID: 241002PE01005	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 58		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	27.8
16.	Total Solid	mg/l	IS 3025		1880
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	8.6
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.45
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	1255
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto

Sample Drawn By Rajeev Singh & team

Specific Contractual Notes: -

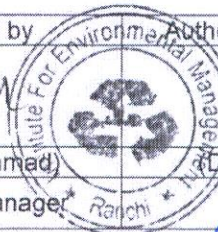
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Reviewed by _____ Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)

Technical Manager



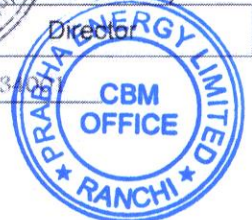
Dr. S. C. Jain
Director

Director

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Ranchi-834002, Jharkhand, India

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





Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	6
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW06																	
Sample ID: 241002PE01006	Sample Description: Effluent																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 51																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	7.5
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	27.5
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		908
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	24
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	52
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	21.8
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		87
12.	Sodium	mg/l	IS 3025 (Part-24)		178.5
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
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 _____ Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)
Technical Manager

Dr. S. C. Jain
Director

Page 1 of 2

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





Test Report

Discipline: Chemical	Group: Pollution & Environment	Sub-Group: Waste Water
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003VWV06	
Sample ID: 241002PE01006	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 51		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

----Test Result----

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	27.2
16.	Total Solid	mg/l	IS 3025		950
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	6
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.29
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	664
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

----End of Report----

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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Reviewed by

Authorized Signatory

T. Ahmad

(Tauqeer Ahmad)

Technical Manager


C. Jain
Director



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Ranchi-834002, Jharkhand, India

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



Institute for Environmental Management



TC - 11515

Test Report

ULR No.:	T	C	1	1	5	1	5	2	4	0	0	0	0	0	1	6	8	7
Discipline: Chemical	Group: Pollution & Environment										Sub-Group: Waste Water							
Report Issue Date: 05-10-2024	Test Report No.: RN-240930003WW07																	
Sample ID: 241002PE01007	Sample Description: Effluent																	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024																	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002																		
Type of Industry: Energy										Customer Representative: RANJAN KUMAR								
Sample Drawn by: IEM Team										Sampling Date: 02-10-2024								
Protocol: CPCB Guideline & IS Method 3025 Series																		
Sampling Location: NK # 62																		
Sample Receiving Date: 02-10-2024						Testing Started: 02-10-2024						Testing Ended: 05-10-2024						

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
1.	pH value at 25°C	----	IS 3025 (Part-11)	5.5 to 9.0	6.8
2.	Total Suspended Solids (TSS)	mg/l	IS 3025 (Part-17)	100	42
3.	Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16)		625
4.	Biological Oxygen Demand (BOD)	mg/l	IS 3025 (Part-44)	30	25.4
5.	Chemical Oxygen Demand (COD)	mg/l	IS 3025 (Part-58)	250	100
6.	Sulphate (as SO ₄)	mg/l	IS 3025 (Part-24)	--	10.3
7.	Copper	mg/l	APHA: 3111B.2023	3.0	BDL(MDL-0.2)
8.	Lead	mg/l	APHA: 3111B.2023	0.1	BDL(MDL-0.2)
9.	Zinc	mg/l	APHA: 3111B.2023	5.0	BDL(MDL-0.2)
10.	Nickel	mg/l	APHA: 3111B.2023	--	BDL(MDL-0.2)
11.	Chloride	mg/l	IS 3025 (Part-32)		53
12.	Sodium	mg/l	IS 3025 (Part-24)		46.08
13.	Mercury	mg/l	APHA: 3112B.2023	0.01	BDL(MDL-0.05)
14.	Chromium	mg/l	APHA: 3111B.2023		BDL(MDL-0.2)

---End of Report---

Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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Reviewed by _____ Authorized Signatory

T. Ahmad
(Tauqeer Ahmad)
Technical Manager

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

Page 1 of 2

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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: 05-10-2024	Test Report No.: RN-240930003VWW07	
Sample ID: 241002PE01007	Sample Description: Effluent	
Challan No./P.O. No.: N/A	Challan No./ P.No. Date: 30-09-2024	
Issued to: PRABHA ENERGY LTD.(PEL), 4th FLOOR, RISHAB COMPLEX OPPOSITE ASHOK NAGAR ROAD NO.4 LANDMARK ABOVE BANK OF INDIA, RANCHI, JHARKHAND 834002		
Type of Industry: Energy	Customer Representative: RANJAN KUMAR	
Sample Drawn by: IEM Team	Sampling Date: 02-10-2024	
Protocol: CPCB Guideline & IS Method 3025 Series		
Sampling Location: NK # 62		
Sample Receiving Date: 02-10-2024	Testing Started: 02-10-2024	Testing Ended: 05-10-2024

---Test Result---

Sl. No.	Tested Parameters	Unit	Method No.	Norms**	Results
15.	Temperature	°C	APHA 3111 B:2023	--	26.8
16.	Total Solid	mg/l	IS 3025		679
17.	Phenolic Compound	mg/l	IS 3025 (Part-43)	--	BDL(MDL-0.001)
18.	Oil & Grease	mg/l	IS 3025 (Part-39)	--	BDL(MDL-4)
19.	Hexavalent Chromium	mg/l	APHA: 3111 B.2017	--	BDL(MDL-0.02)
20.	Fluoride	mg/l	IS 3025 (Part-52)	2.0	0.36
21.	Sulphide	mg/l	IS 3025 (Part-29)	2.0	BDL(MDL-0.1)
22.	Salinity	-	APHA 2520 B:2023	--	336
23.	Lithium	mg/l	APHA 3111 B:2023	--	BDL(MDL-0.2)
24.	Cyanides	mg/l	IS 3025 (Part-27)	--	BDL(MDL-0.1)

---End of Report---



Env. Condition of Lab.	Laboratory is maintaining Temperature 27± 2°C and Relative Humidity 65±5 % in all testing area as per IS 196:1966(C).
Abbreviation	MDL: Minimum Detection Limit, BDL: Below Detection Limit
Norms** is Specified	--
Remark	--

Tested By: Mahendranath Mahto
Sample Drawn By Rajeev Singh & team

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

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Ranchi-834002, Jharkhand, India

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



Annexure-5



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 req.

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



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 (oily 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



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.

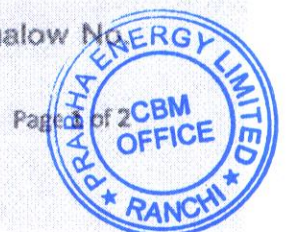
6. As per the relevant provisions of the EIA Notification, 2006, the environmental clearance to the project 'Development of North Karanpura CBM Block NK-CBM-2001/1' in Jharkhand granted by the Ministry vide letter dated 12th May, 2015 is hereby transferred from M/s ONGC Ltd to M/s Prabha Energy Private 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.


1/5/2018
(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



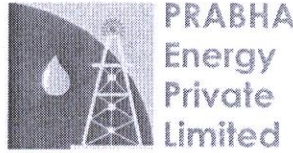
2. The Secretary, Forest, Environment and Climate Change Department, Government of Jharkhand, Ranchi (Jharkhand)
3. The Member Secretary, Central Pollution Control Board, Parvesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Jharkhand State Pollution Control Board,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

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



Annexure-6





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

PEPL/NKCBM/HSE/MOEFCC/2024/01

Date: 15th April 2024

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 2024 in FORM V for "Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand State".

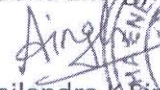
Dear Sir,

Kindly find attached herein the Environmental Statement for the financial year ending 31st March 2024 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.

Thanking you,

Yours truly,

For Prabha Energy Private 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 2024

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

PRABHA ENERGY PRIVATE 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, Ahmedabad – 380 049

Tel: (02717)298510, 9909009898 Fax:(02717)298520, Email: info@prabhaenergy.com , CIN:U 40102 GJ2009 PTC 057716



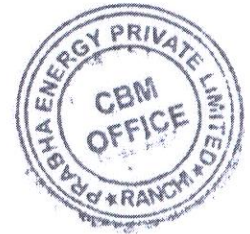
ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2024

PART-A

- a) Name and address of the owner/
Occupier of the industry
Operation or process : Prabha Energy Private 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. : Not Applicable
- d) Year of establishment : 2017 (Preparatory arrangements
commenced)
- e) Date of the last Environmental
Statement submitted. : 08th April 2023



PART -B

- a) Water and Raw Material Consumption : Fresh Water required for Cementing, Effluent Water required for Drilling and Hydro-fracturing operation.

(However, all operations in North Karanpura CBM Block have been suspended from 1st April 2023 to 31st March 2024 due to future planning and preparatory measures)

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

Name of Products	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
Coal-bed Methane (CBM) Gas	Not Applicable	Not Applicable

- c) Raw material consumption

Name of raw materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
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/ Unit of output : No pollution is discharged to environment

(Parameter as specified in the consent is used)

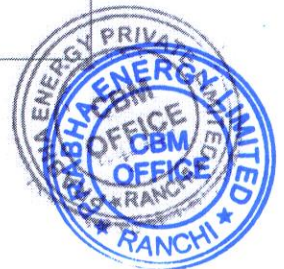
Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	165.61 m ³ /day water has been discharged through CBM production.	The discharged water is analyzed periodically and meets the standards set by CPCB	There are no variations
(b) Air (Gas Genset 62.5 KVA)	Average velocity of flue emission is 7.2 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

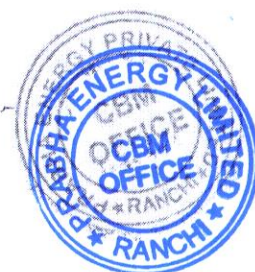
(Drilling Operation in North Karanpura CBM Block has been suspended from 1st April 2023 to 31st March 2024 due to future planning and preparatory measures, so no solid waste generated in the year)

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 2023 to 31st March 2024, 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.

Not Applicable

PART - H

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

No pollution is generated from drilling Process

PART - I

Any other particulars for improving the quality of environment.

Tree plantation taken up along existing well sites.



Annexure 7





**GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS**

Central Processing Centre
Manesar, Plot No. 6,7, 8, Sector 5, IMT Manesar, Gurgaon, Haryana, 122050, India

Certificate of Incorporation Consequent upon conversion to public company

Corporate Identity Number: U40102GJ2009PLC057716

IN THE MATTER OF PRABHA ENERGY PRIVATE LIMITED

I hereby certify that PRABHA ENERGY PRIVATE LIMITED which was originally incorporated on FIFTH day of AUGUST TWO THOUSAND NINE under Companies Act, 1956 as PRABHA ENERGY PRIVATE LIMITED and upon an intimation made for conversion into public company under Section 18 of the Companies Act, 2013; and approval of Central Government signified in writing having been accorded thereto by the ROC, CPC vide SRN AA8777144 dated 18/07/2024 the name of the said company is this day changed to PRABHA ENERGY LIMITED

Given under my hand at ROC, CPC this TWENTY THIRD day of JULY TWO THOUSAND TWENTY FOUR

Sunidhi Matroja

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

Central Processing Centre

Note: The corresponding form has been approved by Sunidhi Matroja, Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies and this letter has been digitally signed by the Registrar through a system generated digital signature under rule 9(2) of the Companies (Registration Offices and Fees) Rules, 2014

Mailing Address as per record available in Registrar of Companies office:

PRABHA ENERGY LIMITED

12A, Abhishree Corporate Park, Opp Swagat BRTS Bus Stop, Ambli-Bopal Road, Bopal, NA, Ahmedabad, Ahmedabad-380058, Gujarat

