



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

PEPL/NKCBM/HSE/MOEF/2021/7

25th Oct 2021

To,
The Ministry of Environment, Forest and Climate Change
Regional Office, Ranchi;
Bungalow No. A-2, Shyamali Colony;
Doronda, Ranchi - 834002

Subject: Six Monthly Compliance Report of "Development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand" for the period ending 30th September 2021.

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.

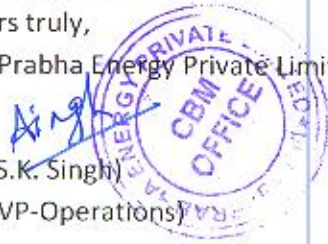
Thanking you.

Yours truly,

For Prabha Energy Private Limited

(Dr S.K. Singh)

(Sr. VP-Operations)



Enclosure: Six Monthly Compliance Report (Period ending 30th September 2021) along with

- 1) Annexure 1- Ambient Air Quality report
- 2) Annexure 2- Noise report
- 3) Annexure 3- Ground water report
- 4) Annexure 4- Drilling cuttings report
- 5) Annexure 5- Effluent water report
- 6) Annexure 6- Photos of completing Commitments of Public Hearing
- 7) Annexure 7- CSR Photos
- 8) Annexure 8- Plantation Photos
- 9) Annexure 9- Environmental Management Cell
- 10) Annexure 10- NABL Certificate of Third Party
- 11) Annexure 11- Copy of Environmental Management Cell
- 12) Annexure 12- Environmental Statement for 31.03.2021

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

EC Compliance Report - Development of North Karanpura Coalbed Methane (CBM) Block (NK-CBM-2001/1) of ONGC/PEPL/IOCL Located in Hazaribagh District of Jharkhand State

Name of the Project: Development of North Karanpura Coalbed Methane (CBM) Block NK-CBM-2001/1

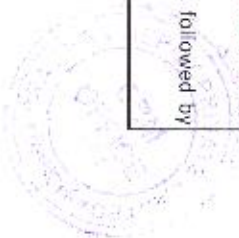
Environmental Clearance Letter : J-11011/228/2012-IAII (I) Dated 12th May 2015 from MoEFCC

Period of Compliance Report: Six monthly compliance report for the period April 2021 to September 2021

SNo.	Conditions/ Guide lines	Status of Compliance
Page - 1		
1	Compensation for the land acquisition to the land owners, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.	Land is being acquired through proper procedure and applicable laws through district administration. Since only small patches of land are required, the land acquisition process does not cause any displacement and therefore no RR is required.
2	The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.	Surface facilities are under installation as per the OMR 2017 and OISD codes and standards and international practices.
3	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the ministry vide GSR NO 826(E) dated 16 th 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.	<ul style="list-style-type: none"> Air quality monitoring has been carried out at 3 locations for Six Monthly Compliance. Previously reports were shared with JSPCB and MoEFCC. Reports of AAQ for this quarter is enclosed as Annexure-1. All efforts shall be made to improve the ambient air quality of the NK Block area. All DGs and GGS are Environmental Friendly in NK Block.
4	The flare shall be designed as per good oilfield practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the fire pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emission from stacks shall meet the MoEF/CPCB guidelines.	<ul style="list-style-type: none"> As Production Phase is yet to commence, overhead flare will be designed as per oilfield practices and OISD guidelines in central gas facility i.e. Gas Gathering Stations (GGS). GGS will be established in coming time after completion of Development Drilling Phase. 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.



SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions (Contd.)		
5	The company shall make the arrangement for control of noise from drilling activity and DG/GG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG/GG sets and meet the norms notified by the MOEFCC. Height of all the stacks/vents shall be as per the CPCB guidelines.	<ul style="list-style-type: none"> • M/S NETEL India, a NABL accredited laboratory, has been engaged for periodic/quarterly 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 shows that day and night levels are within the permissible limits as per Noise Rules and Regulations.
6	The company shall comply with the guidelines for disposal for solid waste, drill cuttings and drilling fluids for onshore drilling operation notified vide GSR, 546(E) dated 30th August 2005.	<ul style="list-style-type: none"> • CBM drill cuttings do not carry any oil traces and they are non-hazardous. Infact, No hazardous chemical is used in drilling operation. • The drill cuttings are inert material and are being used for construction activities like back filling of low lying areas, construction of well pads, road filling etc. • The drilling fluid after solid-liquid separation is recycled or evaporated in HDPE lined pits.
7	Total fresh water requirement shall not exceed (25 cum/day) for each well during drilling phase and prior permission shall be obtained from the competent authority and a copy submitted to the Ministry's Regional office at Bhubaneswar/Ranchi.	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.
8	During well drilling waste water shall be segregated into waste drilling fluid and drill cuttings. Drill cuttings shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be disposed off through septic tank followed by soak pit.	<ul style="list-style-type: none"> • Drill cuttings are stored onsite in impervious HDPE lined pits for solar evaporation and drying. • The produced water conforms to CPCB norms and is either stored onsite in HDPE lined pits for solar evaporation and reuse in drilling of new wells. • Effluents shall be properly treated, if required, as per the CPCB standards. • Domestic effluents are disposed off through septic tanks followed by soak pit.



SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions (Contd.)		
9	Ground water monitoring shall be done to assess if produced water storage or disposal has any effect.	Ground water is being regularly monitored by NABL accredited laboratory to ensure that the produced water storage or disposal has no effect on it. Reports of Ground Water are attached as Annexure-3.
10	Drilling waste water including drill cuttings, wash water shall be collected in disposal pits lined with HDPE lining, evaporated or treated and shall comply with the notified standards for onshore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bhubaneswar.	<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. • Drill cuttings are analyzed and the toxicological analysis report is attached as Annexure-4. • Effluent water analysis reports are given in Annexure-5. • 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. • Overhead flaring of sufficient height will be provided at central facility station i.e. GGS when where GGS will be established.
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.



SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions (Contd.)		
14	The design, material of construction, assembly, inspection, testing and safety aspect of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B 31.4 and OSD 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.	At present, development drilling is going on in NK CBM Block and Production Phase is yet to commence. 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	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 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 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 practical through periodic drills.



SNo.	Conditions/ Guide lines	Status of Compliance
Specific Conditions (Contd.)		
20	The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Shall be followed as suggested
21	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	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) Providing Football ground to students. 3) Given Civil work to Local Contractors. 4) Repairing of roads and culverts for Locals. The photos for completing the commitments made in public hearing are in Annexure-6.
23	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	• 5% of the total cost of the project shall be spent on CSR activities over the life of the project. • CSR plans in NK CBM Block always covers the promotion of education, medical facilities, road development, skill development of local people. • Recently CSR activities like distribution of Medical Items, school uniforms was done at project site. Same photos are in Annexure-7.



General Conditions		Status of Compliance	
SLN	Conditions/ Guide lines		
1	The project authorities must strictly adhere to stipulation made by the Jharkhand State Pollution Control Board (JSPCB), State Government and any other statutory authority.	In NK CBM Block, all stipulations made by JSPCB and other statutory authorities are strictly adhered to.	
2	No further expansion or modification in the plant shall be carried out without prior approval of the ministry of Environment and Forests. In case of deviation or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the ministry to assess the adequacy of condition imposed and to add additional environmental protection measures required, if any.	Prior approval will be obtained in case of any modification in the project proposal. As such date, no expansion or modification is carried out for NK Block.	
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Developmental drilling in the North Karanpura block is being undertaken for production of CBM gas. Production phase is yet to commence. GGS is planned to be set up in this phase. After setting up of Gas Gathering 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 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/EWP 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/EWP 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.	



SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions (Contd.)		
7	The company shall undertake all relevant measures for improving the socio-economic condition of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	<ul style="list-style-type: none"> • Separate fund is fixed for CSR activities and recently CSR activities like distribution of Mask, Sanitizers was done at project site for the community welfare of nearby areas. • CSR activities was undertaken by involving local villages and administration. Photos for CSR are enclosed as Annexure-7.
8	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	<ul style="list-style-type: none"> • Proper Plantation and waste disposal techniques are implementing in project so that eco-development can be done. Photos for Plantation are enclosed as Annexure-8.
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 Environmental Management Cell has been set up to carry out the EMP and Monitoring functions when the Gas Gathering Stations (GGS) will be established. EMC is enclosed as Annexure-9. • A reputed NABL laboratory is hired to carry out periodic monitoring of all environmental parameters. NABL certificate is in Annexure-10.
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 Parishad/Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/ representation, if any, were received while processing the proposal.	Copy of the clearance letter is given to all concerned and provided in Annexure-11.



SNo.	Conditions/ Guide lines	Status of Compliance
General Conditions (Contd.)		
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated Environmental clearance conditions including results of the monitored data(both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the company.	<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 PEPL at www.prabhaenergy.com
13	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned state pollution control board as prescribed under the Environment(Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective regional offices of MoEF by e-mail.	<p>Form - V for financial year ending 31st March 2021 was submitted to the JSPCB and Regional office of MoEFCC at Ranchi. Copy is enclosed in Annexure-12.</p> <p>The earlier Environmental Statements have been uploaded on the web site of PEPL, which can be accessed at www.prabhaenergy.com</p>
14	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and the copy of the clearance by the ministry and the copies of the clearance letter are available with the SPCB/Committees and may also be seen at website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of Ministry.	<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 PEPL.
15	The project authorities shall inform the regional office as well as the ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<ul style="list-style-type: none"> • The project Field Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012 • The Development Drilling of NK CBM Project started on 7th June 2018 and presently drilling is being undertaken for CBM gas. Production Phase is yet to commence.



Annexure-1



Netel (India) Limited

Name & Address of the Customer : M/s Prabha Energy Pvt. Ltd, 4th Floor, Rishabh Complex, Opposite to gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand-834002 Sample Particulars: Ambient Air Quality	Test Report No.: NIL /PEPL/21-22/AAQ-1		
	Issue Date : 18.08.2021	Your Ref : LOA Dt.13.11.2019	
Test Method : IS:5182 & CPCB Guidelines Test Required : As given below	Date of Registration	10.08.2021	
	Date of commencement of testing	10.08.2021	
	Date of completion of testing	17.08.2021	
	Sample condition at receipt	Found ok	
Sampling Method: Sample collected by our representative on 09-08-2021			

S. No	Parameter	Unit	Result			CPCB Limit
			NK#6	NK#19	NK#24	
1	PM10	µg/m ³	91	78	72	100(24hr)
2	PM2.5	µg/m ³	54	42	38	60(24hr)
3	Sulphur Dioxide	µg/m ³	48.5	38.0	35.5	80(24hr)
4	Nitrogen Dioxide	µg/m ³	52.6	41.6	40.2	80(24hr)
5	Ozone	µg/m ³	28.6	27.5	22.0	100(8hr)
6	Lead	µg/m ³	ND	ND	ND	1(24hr)
7	Carbon Monoxide	mg/m ³	0.42	0.21	0.18	2(1hr)
8	Ammonia	µg/m ³	29.6	21.0	20.8	400(24hr)
9	Benzene	µg/m ³	ND	ND	ND	05(1yr)
10	Benzo(a)Pyrene	ng/m ³	ND	ND	ND	01(1yr)
11	Arsenic	ng/m ³	ND	ND	ND	06(1hr)
12	Nickel	ng/m ³	ND	ND	ND	20(1hr)

For Netel India Limited



Annexure-2



Netel (India) Limited

Name & Address of the Customer : M/s Prabha Energy Pvt. Ltd, 4th Floor, Rishabh Complex, Opposite to gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand-834002 Sample Particulars: Noise Monitoring	Test Report No.: NIL /PEPL/21-22/Noise-1	
	Issue Date : 18.08.2021	Your Ref : LOA Dt.13.11.2019
Test Method : IS 9876:1981 & User Manual Test Required : As given below	Date of Registration	09.08.2021
	Date of commencement of testing	09.08.2021
	Date of completion of testing	09.08.2021
	Sample condition at receipt	Found ok
Sampling Method: Sample collected by our representative on 09-08-2021		

NOISE MONITORING REPORT

Location	Unit	Result	
		Day Time	Night Time
CPCB Standard Limit	dB(A)	75	70
NK # 5	dB(A)	38.6	32.5
NK # 6	dB(A)	41.2	35.9
NK # 30	dB(A)	32.5	28.6
NK # 36	dB(A)	30.9	26.5
NK # 54	dB(A)	33.7	29.0

For Netel India Limited



Annexure-3



Netel (India) Limited

Name & Address of the Customer : M/s Prabha Energy Pvt. Ltd, 4th Floor, Rishabh Complex, Opposite to gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand-834002 Sample Particulars: Ground water	Test Report No.: NIL/PEPL/21-22/GW-1 Issue Date : 18.08.2021 Your Ref : LOA Dt.13.11.2019.
Qty : 1No. × 1Litre each Test Method : IS:3025 & APHA 23 rd Edition Packing : Plastic Bottle Test Required : As given below	Date of Registration : 10.08.2021 Date of commencement of testing : 10.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received
Sampling Method: Sample collected by our representative on 09.08.2021	
Page: 1 of 4	

S. No.	PARAMETER	UNIT	NK#5	NK#6	NK#21	Acceptable Limit as per IS:10500;2012
1	pH	----	7.4	7.2	7.5	6.5-8.5
2	Temperature	°C	31	30.5	31.2	-
3	Colour	Hazen	<1.0	<1.0	<1.0	5(max)
3	Total suspended solids	mg/l	02	02	03	-
4	Total solids	mg/l	314	321	327	-
5	Total Dissolved solids	mg/l	312	319	324	500 (max.)
6	Conductivity	µsm/cm	450	455	458	-
7	Dissolved Oxygen	mg/l	6.0	6.3	6.2	-
8	Zinc as Zn	mg/l	1.2	1.6	1.5	5(max.)
9	Iron as Fe	mg/l	0.11	0.13	0.11	0.3(max)
10	BOD (3 days @ 27°C)	mg/l	1.5	1.0	1.0	-
11	COD	mg/l	6.0	4.5	4.5	-
12	Chloride as Cl	mg/l	82.5	85.0	86.5	250(max.)
13	Sulphate as SO ₄	mg/l	25.6	28.5	30.2	200(max.)
14	Total Hardness	mg/l	128	130	135	200(max.)
15	Calcium as Ca	mg/l	44.5	47.0	48.0	75(max.)
16	Magnesium as Mg	mg/l	26.8	30.5	32.5	30(max.)
17	Sodium as Na	mg/l	0.3	0.5	0.6	-
18	Oil and Grease	mg/l	ND	ND	ND	-
19	Phenolic compounds as C ₆ H ₅ OH	mg/l	ND	ND	ND	0.001(max.)
20	Cyanide as CN	mg/l	ND	ND	ND	0.05(Max)



Netel (India) Limited

21	Fluoride as F	mg/l	0.02	0.03	0.02	1(max.)
22	Sulphide as H ₂ S	mg/l	ND	ND	ND	0.05(max.)
23	Chromium as Cr	mg/l	ND	ND	ND	-
24	Hexavalent Chromium as Cr ⁻⁶	mg/l	ND	ND	ND	0.05(max.)
25	Copper as Cu	mg/l	ND	ND	ND	0.05(max.)
26	Lead as Pb	mg/l	ND	ND	ND	0.01(max.)
27	Mercury as Hg	mg/l	ND	ND	ND	0.001(max.)
28	Nickel as Ni	mg/l	ND	ND	ND	0.02(max.)
29	Arsenic as As	mg/l	ND	ND	ND	0.01(max)
30	Manganese as Mn	mg/l	ND	ND	ND	0.1(max)
31	Vanadium as V	mg/l	ND	ND	ND	-

ND: Not Detected

For Netel India Limited



Page 2 of 4

Annexure-4



Netel (India) Limited

Name & Address of the Customer : M/s Prabha Energy Pvt. Ltd, 4th Floor, Rishabh Complex, Opposite to gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand-834002 Sample Particulars: Drilling Cuttings	Test Report No.: NIL/PEPL/21-22/F-1 Issue Date : 18.08.2021 Your Ref : LOA Dt.13.11.2019
Qty : 1No. × 200g each Test Method : IBM Manual /ICPOES Packing : Plastic Bottle Test Required : As given below	Date of Registration : 10.08.2021 Date of commencement of testing : 10.08.2021 Date of completion of testing : 17.08.2021 Sample condition at receipt : Found ok Sample tested as received
Sampling Method: Sample collected by our representative on 09.08.2021	

S.No	Paramter	Unit	Result				
			NK#43	NK#50	NK#53	NK#54	NK#58
1	Chromium as Cr	% by mass	0.007	0.005	0.002	0.012	0.013
2	Copper as Cu	% by mass	0.004	0.003	0.006	0.005	0.003
3	Lead as Pb	% by mass	0.003	0.002	0.002	0.001	0.001
4	Zinc as Zn	% by mass	0.006	0.004	0.005	0.004	0.004
5	Nickel as Ni	% by mass	0.002	0.004	0.001	0.003	0.002
6	Mercury as Hg	% by mass	ND	ND	ND	ND	ND
7	Iron as Fe	% by mass	2.04	2.09	1.17	2.10	1.62
8	Oil & Grease	% by mass	0.002	0.016	0.008	0.005	0.018
9	Cyanide as CN	% by mass	ND	ND	ND	ND	ND
10	Fluoride as F	% by mass	ND	ND	ND	ND	ND

ND: Not Detected

For Netel India Limited



Annexure-5



Netel (India) Limited

Name & Address of the Customer : M/s Prabha Energy Pvt. Ltd, 4th Floor, Rishabh Complex, Opposite to gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand-834002 Sample Particulars: Effluent water		Test Report No.: NIL/PEPL/21-22/EW-1 Issue Date : 18.08.2021 Your Ref : LOA Dt.13.11.2019	
Qty : 1No. × 1Litre each	Test Method : IS:3025 & APHA 23 rd Edition	Date of Registration	10.08.2021
Packing : Plastic Bottle	Test Required : As given below	Date of commencement of testing	10.08.2021
		Date of completion of testing	17.08.2021
		Sample condition at receipt	Found ok
		Sample tested as received	
Sampling Method: Sample collected by our representative on 09.08.2021			Page: 2 of 2

S. No.	PARAMETER	UNIT	NK#24	NK#26	NK#30	CPCB std Limit
1	pH	-----	8.2	8.6	8.3	5.5-9.0
2	Temperature	°C	45.2	44.6	43.8	40(max)
3	Total suspended solids	mg/l	15	18	20	100(max)
4	Total solids	mg/l	657	682	674	-
5	Total Dissolved solids	mg/l	642	664	654	2100(max)
6	Zinc as Zn	mg/l	4.0	4.6	4.3	5.0(max)
7	BOD (3 days @ 27°C)	mg/l	4.8	4.0	5.6	30(max)
8	COD	mg/l	13.2	12.5	16.0	100(max)
9	Chloride as Cl	mg/l	122	135	140	600(max)
10	Sulphate as SO ₄	mg/l	56	53	58	1000(max)
11	Sodium as Na	mg/l	20.6	22.5	21.5	60(max)
11	Oil and Grease	mg/l	15	18	16	10(max)
12	Phenolic compounds as C ₆ H ₅ OH	mg/l	ND	ND	ND	1.2(max)
13	Cyanide as CN	mg/l	ND	ND	ND	0.2(max)
13	Fluoride as F	mg/l	0.16	0.12	0.11	1.5(max)
14	Sulphide as H ₂ S	mg/l	ND	ND	ND	2.0(max)
15	Chromium as Cr	mg/l	0.02	0.02	0.01	1.0(max)
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	ND	ND	ND	0.1(max)
17	Copper as Cu	mg/l	ND	ND	ND	0.2(max)
18	Lead as Pb	mg/l	ND	ND	ND	0.1(max)
19	Mercury as Hg	mg/l	ND	ND	ND	0.01(max)
20	Nickel as Ni	mg/l	ND	ND	ND	3.0(max)

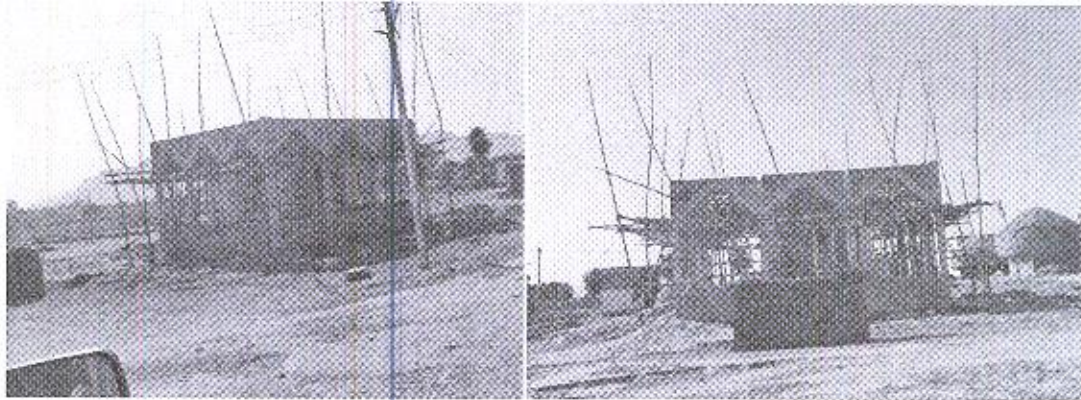
ND: Not Detected

For Netel India Limited

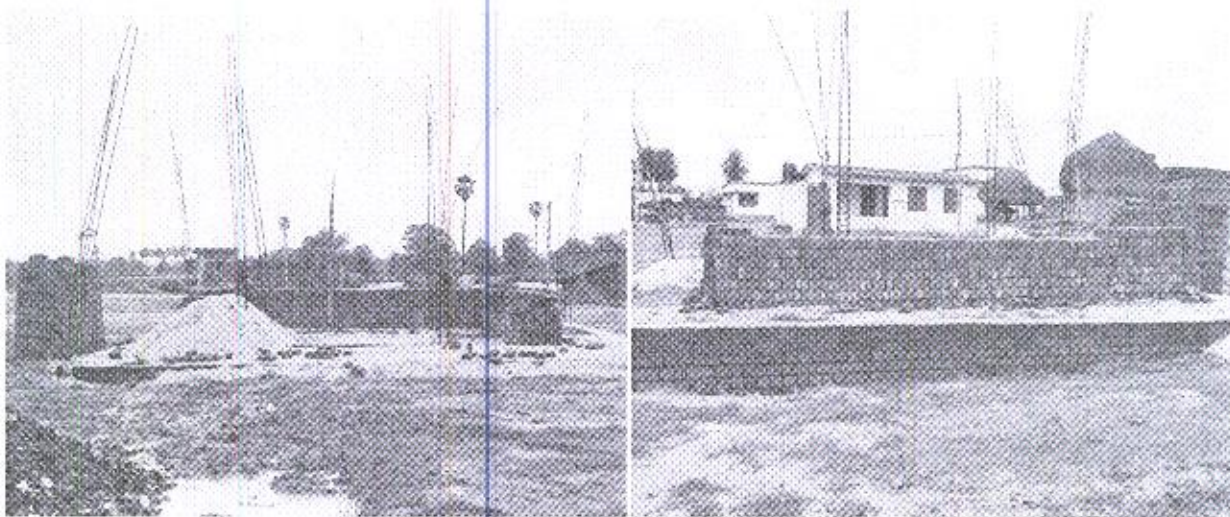


Annexure-6

CSR activities done in North Karanpura CBM Block



Temple has been established for Locals



Primary School work under progress

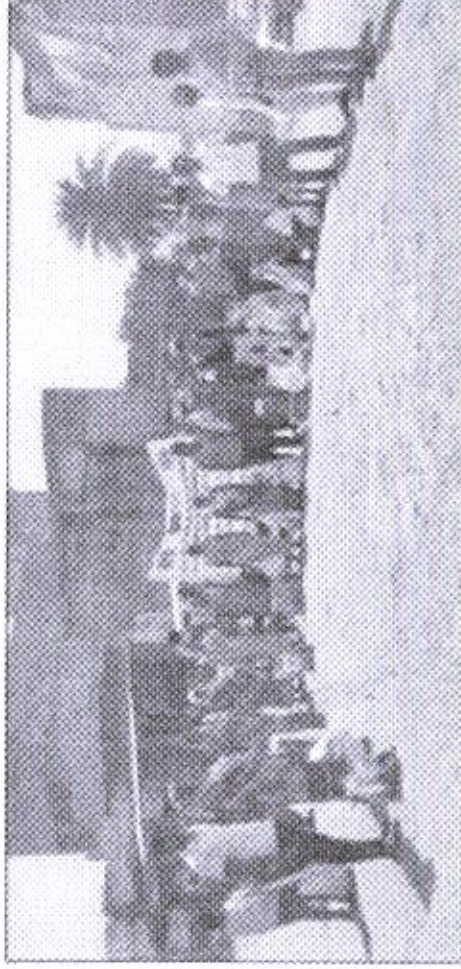
Annexure-7

Distribution of grocery items in North Karanpura CBM Block by
Prabha Energy Private Limited CSR Activity in the Block

बड़कागांव : ओएनजीसी और प्रभा एनर्जी प्राइवेट लिमिटेड ने किया अनाज का वितरण

आवाज संवाददाता

बड़कागांव। प्रखंड के नापो खुद
पंचायत में ओएनजीसी संयुक्त कंपनी
प्रभा एनर्जी प्राइवेट लिमिटेड के द्वारा
दर्जनों गरीब, असहाय, मजदूर तबके
के लोगों के बीच 7-7 केंजी चावल
व 1 केंजी दाल का वितरण किया
गया। मौके पर पंचायत के पंचायत
समिति सदस्य जगत नंदन प्रसाद
गुप्ता, मुखिया प्रतिनिधि चंद्रिका साव,
वार्ड सदस्य हीरालाल साव, प्रभा एनर्जी के
लोगों ने सोशल डिस्टेंसिंग का पालन किया और सभी ने कहा कि हम सभी को कोरोना वायरस के
खिलाफ मिलकर जंग लड़ना है और सरकार के दिए हुए आदेशों का पालन करना है।



Medical products distribution drive for the month of MAY 2021 among local authorities and local residence in NK CBM Block by Prabha Energy Private Limited.

Serial No.	Description	Quantity
1	Pulse oximeter Device	80
2	Surgical Mask	900
3	Oxygen Regulator Device	50
4	Sanitizer Bottles	850

Annexure-8

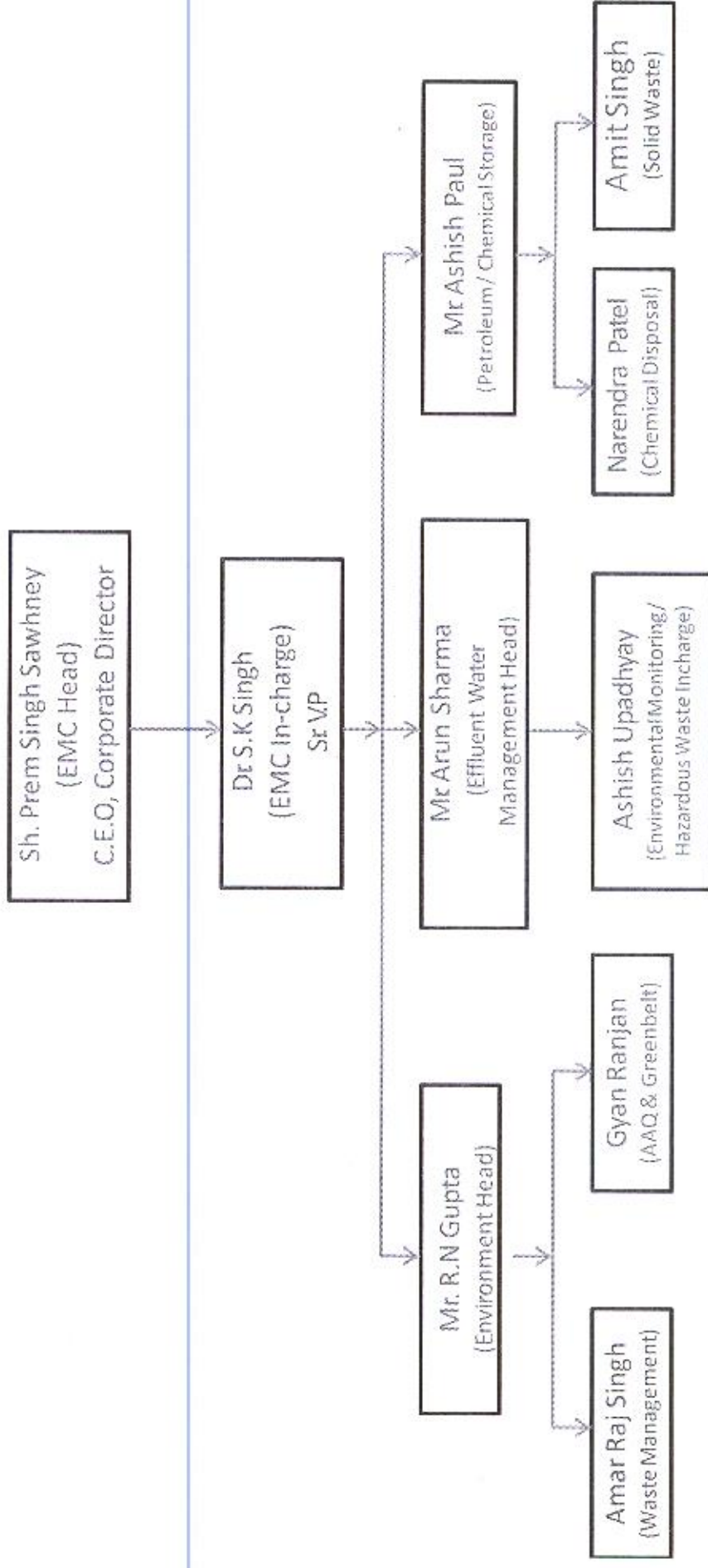
**100 Saplings were planted on 08.08.2021 in
Graveyard with Local Villagers**



Annexure-9

Environmental Management Cell (EMC)

North Karanpura CBM Block



Environmental Management Cell (EMC) Members

North Karanpura CBM Block

S. No.	EMC Members	Role
1	Sh. Prem Singh Sawhney	Environmental Management Cell Head
2	Dr. S.K Singh	Environmental Management Cell Incharge
3	Mr. R.N Gupta	Environmental Head
4	Mr. Arun Sharma	Effluent Water Management Head
5	Mr. Ashish Paul	Petroleum and Chemical Storage Incharge
6	Mr. Ashish Upadhyay	Environmental Monitoring Incharge
7	Mr. Amit Singh	Hazardous Material and water Handling Incharge
8	Mr. Gyan Ranjan	Solid Waste Handling Incharge
9	Mr. Narendra Patel	Ambient Air Quality & Greenbelt Incharge
10	Mr. Amar Raj Singh	Chemical Disposal Incharge
		Waste Management Incharge

Annexure-10



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

NETEL (INDIA) LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

W-408, TTC INDUSTRIAL AREA, RABALE MIDC, NAVI MUMBAI, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-6709

Issue Date: 20/03/2020

Valid Until: 19/03/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

Annexure-11

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

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3

Dated: 1st May, 2018

To

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

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

Sir,

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

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


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

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

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

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

7. This issues with approval of the competent authority.


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

Copy to:-

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

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

CD
15/5/2019
(S. K. Srivastava)
Scientist E

Annexure-12



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

PEPL/NKCBM/HSE/MOEF/2021/4

Date: 04th June 2021

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 2021 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 2021 in FORM V as mandated vide General Conditions of the environmental clearance granted by MOEF vide Ministry's letter no. J - 11011/228/2012 - IV, II (i) dated 12th May 2015.

Thanking you,

Yours truly,

For Prabha Energy Private Limited


Dr. Shailendra K. Singh

Project Manager

CC:

- 1) The Ministry of Environment, Forest and Climate Change; Regional Office, Ranchi, Bunglow No. A-2, Shyamali Colony, Doronda, Ranchi - 834002

Enclosure: Environmental Statement for the financial year ending 31st March 2021

PRABHA ENERGY PRIVATE LIMITED (CONSORTIUM JOINT OPERATOR)

Ranchi Office: 4th Floor, Rishab Complex, Opp Ashoknagar Road No. 4, Landmark: Above Bank of India, Ranchi - 834001
Regd Office: 12 A, Abhisree Corporate Park, Opp. Swagat BRTS Bus Stop, Ambli - Sopal Road, Ahmedabad - 380 058
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 2021

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- : Red
(STC Code) Secondary- (SIC Code)
- c) Production category-Units. : Not Applicable
- d) Year of establishment : 2017 (Preparatory arrangements
commenced)
- e) Date of the last Environmental : 12th May 2020
Statement submitted.

PART -B

- a) Water and Raw Material Consumption : Water required for Drilling, Cementing and Hydro-fracturing operation.
- b) Water consumption in m³/d : 24.52 m³/day
- Process : Drilling, Cementing and Hydro-fracturing
- Cooling
- Domestic

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

*Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

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	784 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	Not Applicable	Not Applicable	Not Applicable

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 : Drilling cuttings are Solid Waste

Solid Wastes	Total Quantity(m3)	
	During the previous financial year	During the current financial year
i. From process	2735 m ³	78 m ³
ii. From Pollution Control Facility	Not Applicable	Not Applicable
iii. Quantity recycled or reutilized within the unit.	Not Applicable	Not Applicable

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.

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.