





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

#### PEPL/NKCBM/HSE/MOEFCC/2023/02

13th April 2023

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 31<sup>st</sup> March 2023. Ref: MoEF F.No. J-11011/228/2012-IAII (I) dated 12<sup>th</sup> 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 31st March 2023) 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
- Annexure 5- Copy of Environment Clearance
- 6) Annexure 6- Environmental Statement for 31.03.2023

#### CC:

- The Member Secretary, Jharkhand State Pollution Control Board, T.A Division Building, HEC Complex, Dhurva, Ranchi - 834004
- Scientist 'E' & Incharge, Zonal Office Kolkata, Central Pollution Control Board, Southern Enclave, Block 502, 5<sup>th</sup> & 6<sup>th</sup> 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

Perio	Period of Compliance Report: Six monthly compliance report for the period October 2022 to March 2023	ber 2022 to March 2023
SNo.	Conditions/ Guide lines	Status of Compliance
Spec	Specific Conditions	Page - 1
	Compensation for the land acquisition to the land ousters, if any, and also Land is being acquired through proper procedure and applicable laws for standing crop shall be paid as per the National Resettlement and through district administration.	and is being acquired through proper procedure and applicable laws
1	Rehabilitation Policy (NRRP) 2007 or State Government norms. It may be Since only small patches of land are required, the land acquisition process	since only small patches of land are required, the land acquisition process
	ensured that compensation provided shall not be less than the norms of does not cause any displacer	does not cause any displacement and therefore no RR is required.
	the NRRP, 2007.	
2	odes and	Surface facilities are under installation as per the OMR 2017 and OISD
ı	standards, international practices and applicable local regulations.	codes and standards and international practices.
	Ambient air quality shall be monitored near the closest human settlements • Air quality monitoring has	Air quality monitoring has been carried out at 3 locations for Six Monthly
	as per the National Ambient Air Quality Emission Standards (NAAQES) Compliance. Previous reports were also shared with JSPCB and MOEFCC.	Compliance. Previous reports were also shared with JSPCB and MoEFCC.
ω	issued by the ministry vide GSR NO 826(E) dated 16" November 2009 for Reports of AAQ for this period is enclosed as Annexure-1	Reports of AAQ for this period is enclosed as Annexure-1.
	PM10, PM2.5, SO2, NOX, CO, CH4, VOCs, HC, Non-Methane HC etc. Efforts • All efforts shall be made	All efforts shall be made to improve the ambient air quality of the NK
	shall be made to improve the ambient air quality of the area.	Block area. All installed DGs and GGs are Environmental Friendly in NK Block.
	The flare shall be designed as per good oilfield practices and Oil Industry As Production Phase is yet to commence, overhead flare will be designed	As Production Phase is yet to commence, overhead flare will be designed
	Safety Directorate (OISD) guidelines. The company shall take necessary as per oilfield practices and	as per oilfield practices and OISD guidelines in central gas facility i.e. Gas
	measures to prevent fire hazards and soil remediation as needed. At the Collection Stations (GCS). GCS will be constructed in coming time after	Collection Stations (GCS). GCS will be constructed in coming time after
^	place of ground flaring, the fire pit shall be lined with refractory bricks and completion of Development	completion of Development Drilling Phase.
1	efficient burning system. In case of overhead flare stacks, the stack height • Fire-fighting equipments are provided at the site as per the provisions	Fire-fighting equipments are provided at the site as per the provisions
	shall be provided as per the regulatory requirements and emission from of OISD-189 and OMR 2017.	of OISD-189 and OMR 2017.
	stacks shall meet the MoEF/CPCB guidelines.	Soil remediation is not required as there is no oil spillages associated.
		The same of the sa

with CBM gas extraction.

M/S Noida Testing L Igaged for periodic onitoring for this quatified by MOEFCC. Height of all the stack Ambient noise data remissible limits as periodic cuttings are tivities like back filling etc. The drilling fluid after per the permission tal fresh water does apporation and drying The produced water stage.  Drill cuttings are sto apporation and drying The produced water spe lined pits for sola effluents if any, will the pomestic effluents are stolas and the produced water specification and drying t	٦	EC COMPLIANCES - NK-CBM-2001/1	/1 Page - 2
The company shall make the arrangement for control of noise from drilling   •M/S Noida Testing Laboratry, a NABL accredited lab activity and DG/GG sets by providing necessary mitigation measures such engaged for periodic/quarterly noise monitoring, as proper acoustic enclosures to DG/GG sets by providing necessary mitigation measures and prior periodic processary as proper acoustic enclosures to DG/GG sets and meet the norms notified monitoring for this quarter are given in Annexure-2. by the MoEFCC. Height of all the stacks/vents is kept as per the CPCB and DG/GG sets have proper acoustic enclosures and online for this quarter are given in Annexure-2. An indicate the company shall comply with the guidelines shall be as per the CPCB and notified by MOEFCC.  The company shall comply with the guidelines for disposal for solid waste, • CBM drill cuttings do not carry any oil traces and drill cuttings and drilling thuds for onshore drilling operation notified vide hazardous. Infact, No hazardous chemical is used in drilling etc.  The company shall comply with the guidelines for disposal for solid waste, • CBM drill cuttings do not carry any oil traces and during drilling phase and prior permission shall be obtained from the drilling fluid after solid-liquid separation is recycle to the formation of the propersion and drying. The produced water does not exceed 25 cum/day for each under drilling waste water shall be stored onsite in impervious HDPE individed fluid the propersion and drying.  During well drilling waste water shall be stored onsite in impervious HDPE individed fluid the propersion and drying. Brillient shall be properly treated and the propersion and reuse in drilling fluid shall be stored onsite in the produced water HDPE lined pits for solar evaporation and reuse in drilling fluid disposed off through septic.  By shall be stored onsite and through septic tank followed by soak pit.	SNo	Conditions/ Gu	
The company shall make the arrangement for control of noise from drilling •M/S Noida Testing Laboratry, a NABL accredited lab activity and DG/GG sets by providing necessary mitigation measures such engaged for periodic/quarterly noise monitoring, as proper acoustic enclosures to DG/GG sets and meet the norms notified monitoring for this quarter are given in Annexure-2. by the MoEFCC. Height of all the stacks/vents shall be as per the CPCB • All DG/GG sets have proper acoustic enclosures and puddelines.  The company shall comply with the guidelines for disposal for solid waste, • CBM drill cuttings and show that day and night leve permissible limits as per Noise Rules and Regulations. The company shall comply with the guidelines for disposal for solid waste, • CBM drill cuttings and not carry any oil traces and regulations. The drilling etc.  Total fresh water requirement shall not exceed (25 cum/day) for each well as per the permission of Environmental Clearance (EC during drilling waste water shall be stored onsite impervious HDPE lined pits of solar evaporation and drying. Effluent shall be properly treated • The produced water conforms to CPCB standards. The produced water HDPE lined pits for solar evaporation and reuse in drilling fluid on not reuse in drilling of new wells and fire hydrant system. Domestic effluent shall be • Domestic effluents are disposed off through septic tank followed by soak pit.	Spe	cific Conditions (Contd.)	
The company shall comply with the guidelines for disposal for solid waste, or CBM drill cuttings and drilling fluids for onshore drilling operation notified vide hazardous. Infact, No hear GSR, 546(E) dated 30th August 2005.  The drill cuttings are activities like back filling etc.  The drilling etc.  The drill cuttings are activities like back filling etc.  The drilling fluid after activities like back filling fluid after has a copy submitted to the Ministry's Regional phase.  The permission office at Bhubaneswar/Ranchi.  During well drilling waste water shall be segregated into waste drilling fluid evaporation and drying lined pit for solar evaporation and drying evaporation and drying evaporation and drying evaporation and reuse in effluents if any, will a coak pit.	vi	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> <li>•M/S Noida Testing Laboratry, a NABL accredited laboratory, has been engaged for periodic/quarterly noise monitoring. Results of noise monitoring for this quarter are given in Annexure-2.</li> <li>• All DG/GG sets have proper acoustic enclosures and meet the norms notified by MOEFCC.</li> <li>• Height of all the stacks/vents is kept as per the CPCB guidelines.</li> <li>• Ambient noise data show that day and night levels are within the permissible limits as per Noise Rules and Regulations.</li> </ul>
Total fresh water requirement shall not exceed (25 cum/day) for each well As per the permission during drilling phase and prior permission shall be obtained from the competent authority and a copy submitted to the Ministry's Regional phase.  During well drilling waste water shall be segregated into waste drilling fluid • Drill cuttings are sto and drill cuttings. Drill cuttings shall be stored onsite impervious HDPE evaporation and drying lined pit for solar evaporation and reated • The produced water shall be stored onsite HDPE lined pit for solar evaporation and reuse in • Effluents if any, will I drilling of new wells and fire hydrant system. Domestic effluent shall be • Domestic effluents is soak pit.	σ	guidelines for disposal for solid waste, nshore drilling operation notified vide	<ul> <li>CBM drill cuttings do not carry any oil traces and they are non-hazardous. Infact, No hazardous chemical is used in drilling operation.</li> <li>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.</li> <li>The drilling fluid after solid-liquid separation is recycled or evaporated in HDPE lined pits.</li> </ul>
During well drilling waste water shall be segregated into waste drilling fluid • Drill cuttings are stored and drill cuttings. Drill cuttings shall be stored onsite impervious HDPE evaporation and drying. lined pit for solar evaporation and drying. Effluent shall be properly treated • The produced water and treated effluent shall conform to CPCB standards. The produced water HDPE lined pits for solar shall be stored onsite HDPE lined pit for solar evaporation and reuse in • Effluents if any, will be drilling of new wells and fire hydrant system. Domestic effluent shall be • Domestic effluents a disposed off through septic tank followed by soak pit.	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.
	00	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> <li>Drill cuttings are stored onsite in impervious HDPE lined pits for solar evaporation and drying.</li> <li>The produced water conforms to CPCB norms and is stored onsite in HDPE lined pits for solar evaporation and reuse in drilling of new wells.</li> <li>Effluents if any, will be treated, as per the CPCB standards.</li> <li>Domestic effluents are disposed off through septic tanks followed by soak pit.</li> </ul>

FRABILE

	12 f	11	10	9	Speci	SNo.	П
station i.e. GCS when wh	The Company shall take necessary measures to prevent fire hazards, • Fire fighting equipments are provided in NK CBM Block as per the containing oil spill and soil remediation as needed. At places of ground provision of OISD-189 and OMR 2017.  flaring, the overhead flaring stack with knockout drums shall be installed • Soil remediation is not required as there is no oil spillages associated to minimize gaseous emissions during operation.  • Overhead flaring of sufficient height will be provided at central facility	Only water based drilling mud shall be used. The drilling mud shall be in CBM drilling process, only water based drilling mud (WBM) is used. The recycled. Hazardous waste shall be disposed of as per Hazardous waste used mud is recycled for further drilling operations. No Hazardous wastes (Management, Handling and Transboundary Movement) Rules, 2008. The are generated in the process as no hazardous chemical is being used in recyclable waste (oily sludge) and spent oil shall be disposed of to the CBM drilling process. However, water is recycled for drilling process. authorized recyclers/re-processors.	Drilling waste water including drill cuttings, wash water shall be collected • Drilling waste water including drill cuttings, wash water are always in disposal pits lined with HDPE lining, evaporated or treated and shall collected in disposal pits lined with HDPE lining and naturally evaporated. comply with the notified standards for onshore disposal on land. Proper • However, operations in North Karanpura CBM Block had been toxicological analysis shall be done to ensure there is no hazardous suspended from October 2022 to March 2023 due to future planing and material. Copy of toxicological analysis shall be submitted to Ministry's preparations.  Regional Office at Bhubaneswar.  • The analysis report shows that the drill cuttings and waste water complies with the standards set forth in "Standards for Onland Disposal"	Ground water monitoring shall be done to assess if produced water Ground water is being storage or disposal has any effect.  Reports of Ground Water is being to ensure that the processor of Ground Water is being storage or disposal has any effect.	Specific Conditions (Contd.)	Conditions/ Guide lines	EC COMPLIANCES - NK-CBM-2001/1
station i.e. GCS when where GCS will be constructed.	<ul> <li>Fire fighting equipments are provided in NK CBM Block as per the provision of OISD-189 and OMR 2017.</li> <li>Soil remediation is not required as there is no oil spillages associated with CBM gas extraction.</li> <li>Overhead flaring of sufficient height will be provided at central facility</li> </ul>	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.	<ul> <li>Drilling waste water including drill cuttings, wash water are always collected in disposal pits lined with HDPE lining and naturally evaporated.</li> <li>However, operations in North Karanpura CBM Block had been suspended from October 2022 to March 2023 due to future planing and preparations.</li> <li>Effluent water analysis reports are given in Annexure-4.</li> <li>The analysis report shows that the drill cuttings and waste water complies with the standards set forth in "Standards for Onland Disposal"</li> </ul>	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.		Status of Compliance	Page - 3

The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus	exposure along with self containing breathing apparatus, well protection system shall be provided like blow out presidenter systems as required based on the geological formation removed shall be stacked separately for reuse process.	The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus.  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.  The top soil removed shall be stacked separately for reuse during restoration process.  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.
2	ological formation of well completion operations as per OMR-2017 and OISD-1  y for reuse during •Top soil is not removed during any activity of CBM exp  Karanpura CBM block.  • However in future, whenever laying of pipelines in RO  out, the top soil (if available) will be preserved and re-u  laying work is completed.	

	EC COMPLIANCES - NK-CBM-2001/1	Page - 5
sNo.	Conditions/ Guide lines	Status of Compliance
Spec	Specific Conditions (Contd.)	
20	The company shall take measures after completion of drilling process by Shall be followed as suggested 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.	hall be followed as suggested
21	Occupational health surveillance of the workers shall be carried out as per Occupational health surveillance of the workers in NK CBM Block is being the prevailing Acts and Rules.	Occupational health surveillance of the workers in NK CBM Bloom carried out periodically as per prevailing Acts and Rules.
22	All the commitments made to the public during the public hearing / public The commitments made during public Consultation meeting held on 25.02.2014 for Chatra District and on 1) Providing jobs to local villagers.  26.02.2014 for Hazaribagh District shall be satisfactorily implemented.  3) Repairing of roads and culverts	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 • 5% of the total cost of the project shall be spent on CSR activities over the corporate social responsibility and item-wise details along with time the life of the project.  bound action plan should be prepared and submitted to the Ministry's • CSR plans in NK CBM Block always covers the promotion of education, regional Office at Bhubaneswar. Implementation of such program should medical facilities, road development, skill development of local people be ensured accordingly in a time bound manner.	5% of the total cost of the project shall be spent on CSR activities over he life of the project.  CSR plans in NK CBM Block always covers the promotion of education, nedical facilities, road development, skill development of local people.

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Genei SL.N	General Conditions  SL.N  Conditions/ Guide lines  The project authorities must strictly adhere to stipulation made by the lin NK CBM Block, all stipulation for the line of t
2	No further expansion or modification in the plant shall be carried out So far, no expansion or modification is carried out for NK Block, Prior without prior approval of the ministry of Environment and Forests. In case approval will be obtained in case of any modification in the project of deviation or alterations in the project proposal from those submitted to proposal. 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.
ω a d e c H	The locations of ambient air quality monitoring stations shall be decided in All operations in North consultation with the State Pollution Control Board (SPCB) and it shall be 1st October 2022 to 3 ensured that at least one stations is installed in the upwind and downwind commence, GCS is plant direction as well as where maximum ground level concentrations are Gas Collection Stations, anticipated.  Stations will be made/s control Board (SPCB). installed in the upwind 8 ground level concentrations.
4	The overall noise levels in and around the plant area shall be kept well. The overall noise levels in and around the plant area are kept well within the standards by providing noise control measures including the standards. The Monitoring of Noise is carried out on quarterly basis by acoustic hoods, silencers, enclosures etc. on all sources of noise NABL accredited laboratory and reports are enclosed as Annexure-2. 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).
5 0 1	Training shall be imparted to all employees on safety and health aspects of Training programs are integral part of our project execution plan. Training chemicals handling. Pre-employment and routine periodical medical like fire drill, safety meetings & MVT are properly held on site on examinations for all employees shall be undertaken on regular basis. monthly/quarterly basis.
6 7 7 7	The company shall also comply with all the environment protection The company is complying with all the environment protection measures measures and safeguards proposed in the documents submitted to the and safeguards proposed in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in the EIA/EMP in respect of the recommendations made in

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SNo.	EC COMPLIANCES - NK-CBM-2001/1 Conditions/ Guide lines
Gen	General Conditions (Contd.)
12	The project proponent shall also submit six monthly reports on the status • Six Monthly Compliances of Environmental clearance is being submitted of the compliance of the stipulated Environmental clearance conditions to JSPCB and MoEFCC on regular basis.  including results of the monitored data(both in hard copies as well as by e- • Copies of the EC and six monthly compliance reports are uploaded on mail) to the respective Regional Office of MoEF, the respective Zonal the web site of PEPL at www. prabhaenergy.com  Office of CPCB and JSPCB. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the
13	The environmental statement for each financial year ending 31st March in Form - V for financial year ending 31st March 2023 was submitted to the Form-V as is mandated shall be submitted to the concerned state pollution JSPCB and Regional office of MoEFCC at Ranchi. Copy is enclosed in control board as prescribed under the Environment(Protection) Rules, Annexure-6.  1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance site of PEPL, which can be accessed at www. prabhaenergy.com conditions and shall also be sent to the respective regional offices of MoEF by e-mail.
14	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and the copies of the clearance letter are clearance by the ministry and the copies of the clearance letter are 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 forwarded to the concerned Regional Office of Ministry.
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 Committee, MOPNG w.e.f. 25-09-2012 the concerned authorities and the date of start of the project.  • The project Field Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012  • The Development Plan was approved by DGH Steering Committee, MOPNG w.e.f. 25-09-2012

# Annexure-1



## )A TESTING LABORATORI

(A Government of India Approved Testing Leberatory)

(Au 180): 9001: 2018, 180 48001: 2018 (OB&S) Cartified & NABL Accredited Laboratory) Mod.P & CC (Ministry of Environment, Forest & Climate Change), EPPCR Recognized Laboratory

🚾 + 91-9313611642, 8518281921, 7803031345, 8527870572, 7503031146, 9099794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Rauchi,

Jharkhand - 834002

Report Code : AAQ-200323-01

ULR No. : TC6814230000005251 F

Test Report of : Ambient Air Quality Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023 Report Issue Date : 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On 18/03/2023 to 19/03/2023 Sample Drawn By NTL Representative

Sample description Ambient Air

Sampling Location Near Main Gate NK#6

Sampling Plan & Procedure SOP-AAQ/08

Analysis Duration 20/03/2023 to 27/03/2023

Average Flow Rate of SPM (m3/min.) 1.12 Average Flow Rate of Gases (lpm) 1.0

Sampling Instrument Used Respirable Dust Sampler (PM10), Fine Particulate (PM23) Sampler

Weather Condition Remarks (if any) Normal

	TEST RESULT							
S.No	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.			
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	85.40	µg/m³	100.0			
2.	Particulate Matter (PM25)	IS:5182 Part-XXIV	46.08	μg/m²	60.0			
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	12.16	μg/m³	80.0			
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-V3	24.50	μg/m³	80.0			
5.	Carbon monoxide (as CO)	IS:5182 Part-X	<1.15	mg/m³	4.0			
6	Lead (as Pb)	IS:5182 Part-XXII	<0.10	μg/m³	1.0			
7	Ozone (as O <sub>3</sub> )	IS:5182 Part-IX	32,0	μg/m³	180.0			
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg/m³	5.0			
9	Benzo (a) Pyrene	IS:5182 Part-XI	ND	ng/m³	1.0			
10	Ammonia (as NH <sub>3</sub> )	15:5182 Part-XXV	<50.0	μg/m³	400.0			
11	Nickel (as Ni)	APHA-AIR420	ND	ng/m²	20.0			
12	Arsenie (as As)	APHA-AIR302	ND	ng/m³	6.0			

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer saked for the above tests only.

2. Responsibility of the Laboratory is limited to the involved amount only 3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. The test samples will be disposed all after two weeks from the date of issue of test report, unless until specified by the castering

Laboratory: GT-20, Sector-117, NOIDA, Gautem Euch Neger - 201301 Branch Office

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE E.: noida laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com



## DA TESTING LABORATORIES

(An 1901 : 9861 ; 2615, 184) 48981 : 2818 (OHAS) Corolled & NABL Accredited Laboratory) McEl & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laborators

491 9313611642, 8516081921, 7503031145, 8527870572, 7503031146, 9099794369

#### TEST CERTIFICATE

M/s Prabha Energy Private Limited Issued To:

Address: 4th Floor, Rishabh Complex,

> Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code : AAQ-200323-02

ULR No. : TC6814230000005252 F Test Report of

: Ambient Air Quality Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023 Report Issue Date : 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On 18/03/2023 to 19/03/2023 Sample Drawn By NTL Representative

Sample description Ambient Air

Sampling Location Near Bunkhouse NK#6

Sampling Plan &Procedure SOP-AAQ/08

Analysis Duration 20/03/2023 to 27/03/2023 Average Flow Rate of SPM (m3/min.) 1.12

Average Flow Rate of Gases (Ipm) 1.0

Sampling Instrument Used Respirable Dust Sampler (PM10), Fine Particulate (PM25) Sampler

Weather Condition Clear Remarks (if any) Normal

		TEST RESU	LT			
S.No		Test Method	Results	Units	Limits as per Environment (Protection) Act.	
ł.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	82.50	μg/m³	100.0	
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	42.16	μg/m³	60.0	
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	10.23	μg/m³	80,0	
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-V1	18.40	μg/m³	80.0	
5,	Carbon monoxide (as CO)	IS:5182 Part-X	1.16	mg/m³	4.0	
6	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg/m <sup>5</sup>	1.0	
7	Ozone (as O <sub>3</sub> )	IS:5182 Part-IX	28.0	µg/m²	180.0	
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-X1	<1.0	μg/m²	5.0	
9	Benzo (a) Pyrene	IS:5182 Part-X3	ND	ng /m²	1.0	
10	Ammonia (as NH <sub>1</sub> )	IS:5182 Part-XXV	<50.0	μg/m²	400.0	
11	Nickel (as Ni)	APHA-AIR420	ND	ng/m³	20.0	
12	Arsenic (as As)	APHA-AIR302	ND	ng/m³	6.0	

1. The results given above are related to the tested sample, as received & mentioned parameters. The constoner asked for the above tests tody.

2. Responsibility of the Laboratory is limited to the involved amount only

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the custom



Leboratory: GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301 Branch Office: HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

E.: noide leboratory@gmeil.com. info@moidalabs.com W.: www.noidalabs.com



# DIDA TESTING LABORATORI

(An ISO : 9001 ; 2015, ISO 45001 ; 2018 (OH&S) Certified & NABL Accredited Laboratory) Modif & CC (Ministry of Environment, Forest & Climate Change), CFPCB Recognized Laboratory

🙀 +91913611642.85188397. 7503031145.8527870572.7503031146.9990794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code : AAQ-200323-03

ULR No. : TC6814230000005253 F

Test Report of : Ambient Air Quality Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date : 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On 18/03/2023 to 19/03/2023

Sample Drawn By NTL Representative Sample description Ambient Air

Sampling Location Near Self-Flow Well NK#6

Sampling Plan & Procedure SOP-AAO/08

Analysis Duration 20/03/2023 to 27/03/2023

Average Flow Rate of SPM (m³/min.) Average Flow Rate of Gases (lpm)

Sampling Instrument Used Respirable Dust Sampler (PM10), Fine Particulate (PM25) Sampler

Weather Condition Clear Remarks (if any) Normal

	TEST RESULT							
S.No	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Ac-			
1.	Particulate Matter (PM <sub>10</sub> )	1S:5182 Part-XXIII	85.10	μg/m³	100.0			
2.	Particulate Matter (PM25)	IS:5182 Part-XXIV	43.60	μg/m³	60.0			
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	11,38	μg/m³	80.0			
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	24.50	pg/m³	80.0			
5.	Carbon monoxide (as CO)	IS:5182 Part-X	1.19	mg/m <sup>3</sup>	4.0			
6	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg/m²	1.0			
7	Ozone (as O <sub>3</sub> )	IS:5182 Part-IX	32.2	μg/m³	180.0			
8	Benzene (as C <sub>6</sub> H <sub>6</sub> )	1S:5182 Part-XI	<1.0	μg/m³	5.0			
.9	Benzo (a) Pyrene	IS:5182 Part-X1	ND	ng/m³	1.0			
10	Ammonia (as NH <sub>3</sub> )	IS:5182 Part-XXV	<50.0	μg/m³	400.0			
11	Nickel (as Ni)	APHA-AIR420	ND	ng/m³	20.0			
12	Arsenic (as As)	APHA-AIR302	ND	ng/m³	6.0			

I. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above lests only.

Responsibility of the Unboratory is limited to the invoiced amount only.
 This test report will not be generated again, either wholly or in past, without prior written perroission of the laboratory

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer

Laboratory: GT-20, Sector 117, NOIDA, Gautam Budh Nagar - 201301 Branch Office

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

poids laboratori@amail.com info@poidalabs.com W www.noidalabs.com

# Annexure-2



## IDA TESTING LABORATORI

(A Government of India Approved Testing Laboratory)

(An ISO: 900): 2015, ISO 4500): 2018 (OHAS) Certified & NABL Accredited Laboratory) Modef & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

🙀 +91.9313611642\_8510081921,7503031145\_8527870572,7503031145\_9999794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code : N -200323-06

ULR No. : TC6814230000005256 F

Test Report of : G. G. Noise Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date : 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On

Sample Drawn By

Sample Received On

Sample description/ Job No.

Sampling Location

Sampling Time

18/03/2023

NTL Representative

20/03/2023

GG Noise (62.5 KVA) /1193

NK#6

Short Term Monitoring

TEST RESULT						
Location	Noise Level Cum, Leq db(A)	Protocol Followed	Limit as per CPCB Norms			
A. When G.G. Set was in operation     Open G.G. window     a. 0.5 m Distance away from the GG set engine     b. 1.0 m Distance away from the GG set engine	95.4 93.8	IS:4758/IS:11446	75 db (A) at 1.0 meter distance from			
Close G.G. window     a. 0.5 m Distance away from the GG set engine     b. 1.0 m Distance away from the GG set engine	72.5 71.6		close GG set			

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.



## NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO: 9001: 2015, ISO 45001: 2018 (OHAS) Certified & NABL Accredited Laborators)
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laborators

**😭** +91 9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi,

Jharkband - 834002

Report Code : N -200323-07

ULR No. : TC6814230000005257 F
Test Report of : G. G. Noise

Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date

: 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On

Sample Drawn By

Sample Received On

Sample description/ Job No.

Sampling Location

Sampling Time

18/03/2023

NTL Representative

20/03/2023

GG Noise (63 KVA) / 1187

NK#6

: Short Term Monitoring

TES	T RESULT		
Location	Noise Level Cum, Leq db(A)	Protocol Followed	Limit as per CPCB Norms
A. When G.G. Set was in operation     Open G.G. window     a. 0.5 m Distance away from the GG set engine     b. 1.0 m Distance away from the GG set engine	96.6 95.2	IS:4758/IS:11446	75 db (A) at 1.0 meter distance from
Close G.G. window     a. 0.5 m Distance away from the GG set engine     b. 1.0 m Distance away from the GG set engine	73.1 72.0		close GG set

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in pan, without prior written permission of the laboratory.

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY

# Annexure-3



## ESTING LABORATORIES

(A Government of India Approvad Testing Laboratory)

(An ISO : 9901 : 2015, ISO 45001 : 2018 (ORGS) Cartified & NABL Accredited Laboratory) MoEF& CC (Ministry of Environment, Forest & Chinam Change), UPPCB Recognized Laboratory

-91-931361 (642 R510001921 7509031145 R527070572 7503031146 9990794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code : W -200323-09

ULR No. : TC6814230000005259 F

Test Report of : Ground Water

Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023 Report Issue Date : 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn By

Sample Drawn On

Sample Quantity Sample packing Details

Analysis Duration

Location

Sample Description Required Test Standard

20/03/2023 to 27/03/2023 Near NK # 6 Ground Water

18/03/2023

: PVC Cane

: 2.0 lit. + 500 ml.

NTL Representative

: IS 10500: 2012

	MICROBIOLOGICAL REQUIREMENT RESULT						
S.No.	Parameter	Test Method	Results	Requirements as per IS-10500:2012			
1.	Escherichia coli	IS-15185	Absent	Absent/100ml			
2.	Coliform Bacteria	IS-15185	Absent	Absent/100ml			

#### ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.48		6.5 - 8.5	*
6.	Total dissolve solid (TDS)	1S-3025(P-16)	560.0	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	< 0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS- 13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	< 0.10	mg/l	0.5	2.4
6.	Calcium (as Ca)	IS: 3025 (P- 40)	56.40	mg/l	75	200
7.	Chloramines (as Cl <sub>2</sub> )	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as CI)	IS: 3025 (P- 32)	189.0	mg/l	250	1000

Laboratory: GT-20, Sector-117, NOIDA, Gautam Buith Nagar - 201301 Branch Office:

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## NOIDA TESTING LABORATORIES

(A Government of mole Approved Teering Laboratory)

(An ISO : 900) : 2015, ISO 45001 ; 2018 (GH&S) Certified & NABL Apprehited Laboratory)
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+91 9313611642, 8318081921, 7583031145, 8527870572, 7503031146, 9999794369

#### TEST CERTIFICATE

9.	Fluoride (as F)	IS: 3025 (P-60)	0.62	mg/l	1.0	1.5
10.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
11.	Iron (as Fe)	IS: 3025(P-53)	0.136	mg/l	1.0	No Relaxation
12.	Magnesium (as Mg)	IS: 3025 (P-46)	38.40	mg/l	30	100
13.	Manganese (as Mn)	Clause 35 of 1S 3025	BDL	mg/l	0.1	0.3
14.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	5.80	mg/l	45	No Relaxation
15.	Selenium (as Se)	IS: 3025 (P- 56)	BDL.	mg/l	0.01	No Relaxation
16.	Silver (as Ag)	Annex J IS: 13428	BDL	mg/l	0.1	No Relaxation
17.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	82.60	mg/l	200	400
18.	Sulphide (as H <sub>2</sub> S)	IS-3025 (P-29)	BDL	mg/l	0.05	No Relaxation
19.	Alkalinity (as Ca CO <sub>3</sub> )	IS: 3025 (P-23)	280.0	mg/l	200	600
20.	Total Hardness (as CaCO <sub>5</sub> )	IS: 3025 (P- 23)	299.0	tng/l	200	600
21.	Zinc (as Zn)	IS: 3025 (P- 49)	0.142	mg/l	5.0	15
22.	Salinity	APHA- 23 <sup>rd</sup> Edit.	0.341	ppt		· · · · · · · · · · · · · · · · · · ·
23.	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH)	IS: 3025 (P- 43)	BDL	mg/l	0.001	0.002

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	< 0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	< 0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	< 0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	1S-3025(P-2)	< 0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	1S-3025(P-54)	< 0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	rng/l	1000.0	No Relaxation
8	Poly chlorinated biphenyl	APHA 6630	< 0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	< 0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as C:)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

#### Notes:

1. The results given above are related to the fasted sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY



# DA TESTING LABORATORIES

(An ISO : 990) ; 2415, 180 (488) : 2018 (OH&S) Cartified & NABL Accredited Laboratory) ModEl & CC (Ministry of Environment, Farest & Climate Change). CPPCB Recognized Laboratory

+91 931361642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794380

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code : W -200323-010

ULR No.

: TC6814230000005260 F

Test Report of

: Ground Water

Service Request No

: NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date

: 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn By

Sample Drawn On

Sample Quantity

Sample packing Details

Analysis Duration

Location

Sample Description Required Test Standard NTL Representative

18/03/2023

2.0 lit. + 500 ml.

PVC Cane

20/03/2023 to 27/03/2023

Near NK # 3

Ground Water IS 10500: 2012

	MICRO	BIOLOGICAL REQUIREME	ENT RESULT	
S.No.	Parameter	Test Method	Results	Requirements as
1.	Escherichia coli	IS-15185	Absent	per IS-10500:2012
2.	Coliform Bacteria	IS-15185	Absent	Absent/100ml

#### ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agrecable	Agrecable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	Agreeable
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	
5.	pH value	IS-3025(P-11)	7.48	-	6.5 - 8.5	
6.	Total dissolve solid (TDS)	IS-3025(P-16)	512.0	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS S.No. Parameter Test method Result Unit Requirement Permissible Limit (Acceptable Limit) in absence of alternate source Aluminium (as Al) IS: 3025 (P-55) < 0.01 mg/l 0.03 0.2 Total Ammonia IS: 3025 (P-34) < 0.10 mg/l 0.5 No Relaxation Anionic Detergents Annex K of IS-< 0.10 mg/l 0.2 1.0 (as MBAS) 13428 4. Barium (as Ba) IS: 15302 < 0.10 mg/I 0.7 No Relaxation 5. Boron (as B) IS: 3025 (P-57) < 0.10 mg/l 0.5 2.4 6. Calcium (as Ca) IS: 3025 (P-40) 58.20 mg/l 75 200 Chloramines (as Cl<sub>2</sub>) IS: 3025 (P-26) <1.00 mg/l 4.0 No Relaxation Chloride (as CI) IS: 3025 (P-32) 146.0 mg/I250 1000



## NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An 18O : 9001 : 2015, ISO 45001 : 2018 (OHAS) Cornfled & NABL Accredited Laboratory)
MoEF & CC (Ministry of Environment, Forest & Climate Change), OFFC 8 Recognized Laboratory

+91-9313611642, \$510081921, 7503031145, \$527870572, 7503031146, 9999764369

#### TEST CERTIFICATE

9.	Fluoride (as F)	IS: 3025 (P-60)	0.60	mg/l	1.0	1.5
10.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
11.	Iron (as Fe)	IS: 3025(P-53)	0.148	mg/l	1.0	No Relaxation
12.	Magnesium (as Mg)	IS: 3025 (P-46)	26.50	mg/l	30	100
13.	Manganese (as Mn)	Clause 35 of IS 3025	BDL	mg/l	0.1	0.3
14.	Nitrate (as NO <sub>3</sub> )	IS: 3025 (P- 34)	5,60	mg/l	45	No Relaxation
15.	Selenium (as Se)	IS: 3025 (P- 56)	BDL	mg/l	0.01	No Relaxation
16.	Silver (as Ag)	Annex J IS: 13428	BDL.	mg/i	0.1	No Relaxation
17.	Sulphate (as SO <sub>4</sub> )	IS: 3025 (P- 24)	72.40	mg/l	200	400
18.	Sulphide (as H <sub>2</sub> S)	IS-3025 (P-29)	BDL	mg/l	0.05	No Relaxation
19.	Alkalinity (as Ca CO <sub>5</sub> )	IS: 3025 (P- 23)	216.0	mg/l	200	600
20.	Total Hardness (as CaCO <sub>2</sub> )	IS: 3025 (P- 23)	255.0	mg/l	200	600
21.	Zinc (as Zn)	IS: 3025 (P- 49)	0.140	mg/l	5.0	15
22.	Salinity	APHA- 23rd Edit.	0.263	ppt	-	-
23.	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH)	IS: 3025 (P- 43)	BDL	mg/l	100.0	0.002

S.No.	Parameter	Test method	Resulf	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source
1.	Cadmium (as Cd)	IS-3025(P-41)	< 0.001	mg/i	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	< 0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	< 0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	< 0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	< 0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8	Poly chlorinated biphenyl	APHA 6630	< 0.0001	mg/3	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	< 0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only,

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SICNATORY

# Annexure-4



(An ISO : 9601; 2015, ISO 4500); 2018 (OH&S) Certified & NASI, Accredited Laboratory) MoEF & CC (Ministry of Environment, Forest & Climate Change), UFFCB Recognized Laboratory

## +91 9313611642 851808193; 7803031145 8527870572 7503031146 9999794360

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

Opposite to Gate No. 4 Ashok Nagar

(Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code

: WW -200323-013

ULR No.

: TC6814230000005263 F

Test Report of

: Waste Water

Service Request No : NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date

: 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On

Sample Collected By

Sample Description

Sample Quantity/Packing detail

Weather Conditions

Analysis Duration

18/03/2023

NTL Representative

Effluent Water (NK#6)

1 lt/Plastic Cane

Normal

: 20/03/2023 to 27/03/2023

		TEST RESULTS			
S. No.	Parameter	Test Method	Results	Units	Limits as per CPCE
1.	pH	IS:3025(Part-11):1983	7.42		5.5-9.0
2.	Total Dissolved Solid (TDS)	IS:3025(Part-16):1984	860.0	mg/l	No limit Specified
3.	Total Suspended Solid	IS:3025(Part-17):1984	236.0	mg/l	100.0
4.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	125.0	mg/l	250
5.	Biological Oxygen Demand (as O <sub>2</sub> ) (3 days at 27°C)	IS:3025(Part-44):1993	26.0	mg/l	30
6.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10
7.	Temperature, °C	15:3025(Part-9)	20	Shall not	be exceed more than 5 °C
8,	Total Solid	IS:3025(Part-17):1984	1096	mg/l	*
9.	Chlorides (as Cl)	IS: 3025 (Part - 32)	250	mg/l	1000
10.	Fluoride (as F)	IS: 3025 (Part - 60)	0.32	mg/l	2
11.	Flow	APHA 23'd Edition	2.6	LPM	
12.	Sulphides, (as S)	IS: 3025 (Part - 29)	BDL	mg/l	2
13.	Phenolic compound (as C <sub>6</sub> H <sub>5</sub> OH)	1S: 3025 (Part - 43)	BDL	mg/l	·····
14.	Zinc (as Zn)	IS: 3025 (Part - 49)	0.89	mg/l	5
15.	Copper (as Cu)	IS: 3025 (Part - 42)	BDL	mg/l	3



# NOIDA TESTING LABORATORIES

(An ISO : 900) ; 2015, PSO 4500) ; 2018 (OH&S) Certified & NASI, Accredited Laboratory) Mof.F & C.C. (Ministry of Environment, Porest & Climate Change), CPPCB Recognized Laboratory

+91 9313613642 8510081921 7503051145 8527870572 7503051146 9990794369

#### TEST CERTIFICATE

16.	Hexavalent Chromium (as Cr <sup>76</sup> )	IS: 3025 (Part - 52)	BDL	mg/l	0.1
17.	Total Chromium (as Cr)	IS: 3025 (Part - 52)	BDL.	mg/l	
18.	Cyanide, (as CN)	IS: 3025 (Part - 27)	BDL	mg/l	0.2
19,	Nickel (as Ni)	IS: 3025 (Part - 54)	BDL.	mg/l	3
20.	Sodium	IS-3025(P-45)	0.0041	5%	
21.	Lead (as Pb)	IS: 3025 (Part - 47)	BDL	mg/l	0.1
22.	Mercury (as Hg)	IS: 3025 (Part - 48)	BDL	mg/l	0,01
23.	Salinity	APHA- 23rd Edit.	0.45	ppt	

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board. BDL- Below Detection Limit

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory

4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.



Fariere

(An ISO : 980) | 2815, ISO 4580) | 2818 (OH&5) Certified & NABL Accredited Laboratory) MaEF & C.C. (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91,9313611642, 8310081921, 7503031145, 8527870572, 7503031146, 9999794369

#### TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,

> Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi,

Jharkhand - 834002

Report Code

: WW -200323-014

ULR No.

: TC6814230000005264 F

Test Report of

: Waste Water

Service Request No

: NTL/SRF/03/23-015

Service Request Date: 16/03/2023

Report Issue Date

: 27/03/2023

#### SAMPLING & ANALYSIS DATA

Sample Drawn On

Sample Collected By

Sample Description

Sample Quantity/Packing detail

Weather Conditions

Analysis Duration

18/03/2023

NTL Representative

Effluent Water (NK#34)

1 lt/Plastic Cane

Normal

20/03/2023 to 27/03/2023

		TEST RESULTS	***************************************		
S. No.	Parameter	Test Method	Results	Units	Limits as per CPCI
1.	pH	IS:3025(Part-11):1983	7.80	-	5.5-9.0
2.	Total Dissolved Solid (TDS)	IS:3025(Part-16):1984	655.0	mg/l	No limit Specified
3.	Total Suspended Solid	IS:3025(Part-17):1984	180.0	mg/l	100,0
4.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	110.0	mg/l	250
5.	Biological Oxygen Demand (as O <sub>2</sub> ) (3 days at 27°C)	IS:3025(Part-44):1993	23.0	mg/l	30
6.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10
7.	Temperature, °C	1S:3025(Part-9)	18	Shall not be exceed more than 5 °C	
8.	Total Solid	IS:3025(Part-17):1984	835.0	mg/l	-
9.	Chlorides (as Cl)	IS: 3025 (Part - 32)	216	mg/l	1000
10.	Fluoride (as F)	IS: 3025 (Part - 60)	0.27	mg/l	2
11.	Flow	APHA 23'd Edition	2.2	LPM	
12.	Sulphides, (as S)	IS: 3025 (Part - 29)	BDL	mg/1	2
13.	Phenolic compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS: 3025 (Part - 43)	BDL	mg/l	
14.	Zinc (as Zn)	IS: 3025 (Part - 49)	0.56	mg/l	5
15.	Copper (as Cu)	IS: 3025 (Part - 42)	BDL	mg/I	3

Laboratory GT-20, Sector 117, NOIDA, Gautam Buch Nagar, 201301 Branch Office:



# DA TESTING LABORATORIES

(An 18O : 9001 : 2015, 18O 4800) : 2018 (OHAS) Certified & NABL Accredited Laboratory) Malife & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

🛣 +91-9313613642, 8310381923 - 7509021145 - 8377870872, 7503031466 - 9099704360

#### TEST CERTIFICATE

16.	Hexavalent Chromium (as Cr*6)	IS: 3025 (Part - 52)	BDL	1 0	
17.	Total Chromium (as Cr)	-	-	mg/l	0.1
18.		IS: 3025 (Part - 52)	BDL	mg/l	-
10.	Cyanide, (as CN)	IS: 3025 (Part - 27)	BDL	mg/l	0.2
19.	Nickel (as Ni)	IS: 3025 (Part - 54)	BDL.	mg/l	3.00
20.	Sodium	IS-3025(P-45)			3
21.	Lead (as Pb)		0.0032	%	-
		IS: 3025 (Part - 47)	BDL.	mg/l	0.1
22.	Mercury (as Hg)	15: 3025 (Part - 48)	BDL	mg/l	0.01
23.	Salinity	APHA- 23 <sup>rd</sup> Edit.		mg/l	0.01
	ks: Test parameters coming in u. 1. 1:		0.39	ppt	-

arks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board. BDL- Below Detection Limit

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.

2. Responsibility of the Laboratory is limited to the invoiced amount only.

 This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory. 4. The test samples will be disposed off after two weeks from the date of lissue of test report, unless until specified by the customer.

# 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 reg.

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

Sir,

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

- 2.0 The Ministry of Environment, Forests & Climate Change has examined your application. It is noted that the proposal is for development of North Karanpura CBM Block NK-CBM-2001/1 in Jharkhand by M/s ONGC Ltd. The block falls in the districts of Hazaribagh and Chatra of Jharkhand State with block area (271.8 sq. km). It is reported that no sensitive zone and bio-reserves are located within 10 Km distance and no forest land is involved. The block is bounded by latitude 23°46′56″ & 23°54′57″ and longitudes 85°00′36″ & 85°20′44″. In the said block ONGC proposed to drill 74 wells (68 Development Wells & 6 assessment wells). The present proposal is in 3rd phase of development. Average depth of drilling will be 1000 m and Maximum upto 1500 m. There will be 3 mini Gas Collection Stations (GCS) in Sector –C, one located in subsector -1 and other two in Sub-sector -2. Total capacity of gas processing is 0.15 MMSCMD. Produced water handling capacity will be 1500 m3/day. Cost of project is Rs. 684 Crore.
- 3.0 Elevated flaring will be done only during process upset. Adequate stack height will be provided to DG set/GG sets. Fresh water requirement from surface water source/tanker supply/CBM produced water will be 25m³/day. Wastewater generated during drilling operations will be 5-10 m³/day or 150-200 m³ per well. The effluent generated during drilling operations are recommended to be collected in lined waste pits to avoid groundwater contamination. The wastewater is solar evaporated and residual material on completion of well is removed and disposed in accordance with prevailing rules. Drill cuttings will be generated and separate in a solid control system and conveyed to a specially designed pit (lined with HDPE) for temporary storage and disposed in accordance with CPCB regulations specified for on-shore oil and gas industry or will be used for road making. Generation of produce

water from CBM wells will be 3-5 m<sup>3</sup>/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 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
- 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 :

- Compensation for the land acquisition to the land ousters, 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.
- The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.
- 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 16<sup>th</sup> November, 2009 for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>X</sub>, CO, CH<sub>4</sub>, VOCs, HC, Nonmethane HC etc. Efforts shall be made to improve the ambient air quality of the area.
- Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the 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.

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- 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.
- 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.
- 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 Transboudary Movement) Rules, 2008. The recyclable waste (oily studge) 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 CH<sub>4</sub> and H<sub>2</sub>S 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 H<sub>2</sub>S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H<sub>2</sub>S 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.

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- 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:

- 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

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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 Parisad/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.

- The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- The Ministry reserves the right to stipulate additional conditions, if found necessary. The 9.0 company in a time bound manner will implement these conditions.
- 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
- 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:-

The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand. 1.

The Chief Conservator of Forests, Regional Office (EZ), A/3, Chandrashekharpur, 2. Bhuvaneswar, 751023. Orissa. 3

The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex. East Arjun Nagar, New Delhi - 110 032.

The Chairman, Jharkhand Pollution Control Board, Town Administrative Building, HEC, Dhurwa, 4.

Monitoring Cell, Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jor 5.

Guard File/Monitoring File/Record File. 6.

> (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

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.

- 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.
- 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.
- 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.
- This issues with approval of the competent authority.

(S. K Srivastava) Scientist E

Copy to:-

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

- The Secretary, Forest, Environment and Climate Change Department, Government of Jhankhand, Ranchi (Jhankhand)
- The Member Secretary, Central Pollution Central Board, Perivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Debt - 32
- The Member Secretary, Jharkhand State Pollution Countrol Board, T A Building, HEC Complex, Ranchi (Jharkhand)
- Guard File/Monitoring File/Website/Record File

(S. K. Sevestava) Scientist E

# Annexure-6







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

PEPL/NKCBM/HSE/MOEFCC/2023/01

Date: 08th April 2023

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 31<sup>st</sup> March 2023 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 31<sup>st</sup> March 2023 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 United

Dr. Shailendra K Sing

Sr. Vice President (Operations)

CC:

 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 2023

### **ENVIRONMENTAL STATEMENT FORM-V**

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2023

#### 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

1

:

c) Production category-Units.

Not Applicable

d) Year of establishment

2017 (Preparatory arrangements

commenced)

 e) Date of the last Environmental Statement submitted. 26th April 2022



#### 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 2022 to 31<sup>st</sup> March 2023 due to future planning and preparatory measures)

b) Water consumption in m<sup>3</sup>/d

3m<sup>3</sup>/day

Process

.

Cooling

.

Domestic

3m<sup>3</sup>/day

	Process water consumption per unit of produ		
Name 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	Consumption of raw material per unit of output		
Name of raw materials	Products	During the previous financial year	During the current financial year	
There are no raw materials production of CBM gas. Naturally occurring CBM G from the coal seams at well	as is extracted	Niil	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	42.23 m <sup>3</sup> /day water has been discharged through CBM production.		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).

	Total Quantity (Kg)		
Hazardous Wastes	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	
ī.	From process	1278.98 m <sup>3</sup>	0 m <sup>3</sup>	
iì.	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 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023 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 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023, 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.

