



PRABHA  
Energy  
Private  
Limited

## PRABHA ENERGY PRIVATE LIMITED

PEPL/NKCBM/HSE/MOEF/2019/6

22<sup>nd</sup> October 2019

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 30<sup>th</sup> September 2019**

**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 as on 30.10.2019 for favour of your kind information.

Thanking you.

Yours truly,  
For Prabha Energy Private Limited

(Dr S.K.Singh)  
Project Manager

**Enclosure:** Six Monthly Compliance Report (Period ending 30<sup>th</sup> September 2019)

**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, 5<sup>th</sup> & 6<sup>th</sup> Floor, 1582 - Rajdanga Main Road, Kolkata - 700107

**Six Monthly Report on the Status of Compliance to the conditions of Environmental Clearance**  
**(For the period 01.04.2019-30.09.2019)**  
**North Karanpura CBM Project (NK-CBM-2001/1)**  
**Ref: F. No. J-11011/228/2012-IAII(I) Dated 12th May 2015 from MoEFCC**

SL.NO.	Conditions/ Guide lines	Status of Compliance
<b>Page - 1</b>		
<b>Specific Conditions</b>		
1	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.	Land is being acquired through proper procedure and applicable laws through district administration. RR is not applicable as only small patches of land are required.
2	The surface facilities shall be installed as per the applicable codes and standards, international practices and applicable local regulations.	Surface facilities under installation as per the OMR 2017 and OISD codes and standards.
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 <sup>th</sup> 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.	Agency for monitoring of ambient air quality has been identified. Air quality monitoring has been carried out at 4 locations. Previously reports were shared with JSPCB. All efforts shall be made to improve the ambient air quality of the area.
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 MoEFCC/CPCB guidelines.	<ul style="list-style-type: none"> <li>• The flare shall be designed as per good oilfield practices and OISD guidelines</li> <li>• Firefighting equipment are provided at the site as per the provisions of OISD-189</li> <li>• Soil remediation is not required as there is no oil spillages associated with CBM gas extraction</li> <li>• There is no flaring of gas / ground flaring</li> </ul>
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"> <li>• All DG/GG sets have acoustic enclosures and meet the norms notified by MoEFCC.</li> <li>• Height of all the stacks/vents is as per the CPCB guidelines.</li> </ul>
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"> <li>• CBM drill cuttings do not carry any oil traces and are non-hazardous</li> <li>• Cuttings are used for road filling.</li> <li>• Application to obtain authorisation for disposal of hazardous waste will be submitted to JSPCB.</li> </ul>
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.	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 Ranchi.

SL.NO.	Conditions/ Guide lines	Status of Compliance
<b>Specific Conditions (Contd.)</b>		
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.	Drill cuttings are kept in HDPE liner as water is naturally evaporated. Effluents are properly treated as per the CPCB standards.
9	Ground water monitoring shall be done to assess if produced water storage or disposal has any effect.	Ground water is being regularly monitored to ensure that the produced water storage or disposal has no effect.
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"> <li>• Drilling waste water including drill cuttings, wash water are collected in disposal pits lined with HDPE lining and naturally evaporated.</li> <li>• Domestic effluents are disposed off through septic tanks followed by soak pit.</li> </ul>
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, no Hazardous wastes are carried out. However, water is recycled and drilling mud is re-used.
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"> <li>• Fire fighting equipments are provided as per the provisions of OISD-189</li> <li>• Soil remediation is not required as there is no oil spillages associated with CBM gas extraction</li> <li>• There is no flaring of gas / ground flaring</li> </ul>
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 <sub>4</sub> and H <sub>2</sub> S shall be provided.	There are no possibilities of ingress of air into coal seams during CBM operations
14	The design, material of construction, assembly, inspection, testing and safety aspect of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B 31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casing at rails, major road crossing should be in conformity with ANSI/ASME requirement.	All suggested specifications have been included in the tender document and company shall ensure it is followed.

EC COMPLIANCES - NK-CBM-2001/I		Page - 3
SL.NO.	Conditions/ Guide lines	Status of Compliance
<b>Specific Conditions (Contd.)</b>		
15	The company should develop a contingency plan for H <sub>2</sub> 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.	There is absolutely no chance of H <sub>2</sub> S emission in CBM 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.	CBM wells are sub-hydrostatic and there are no chances of blow out of gas. However, BOP is used during drilling operations as per OMR-2017
17	The top soil removed shall be stacked separately for reuse during restoration process.	Top soil will not be removed during any activity of CBM exploration in North Karanpura CBM block
18	Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.	Emergency Response Plan is based as per the guidelines given by OMR 2017, OISD and Govt of India.
19	Project proponent shall comply the with the environment protection measures and safeguards recommendation in the EIA/EMP/risk analysis report/disaster management plan.	Recommendations of EIA/EMP/Risk Analysis Report/Disaster Management Plan are being followed.
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 is being carried out 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 taken seriously.
23	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	<ul style="list-style-type: none"> <li>• 5% of the total cost of the project shall be spent on CSR activities over the life of the project.</li> <li>• CSR plan is to cover the promotion of education, medical facilities, road development, skill development of local people is under way.</li> <li>• Recently CSR activity was done at project site.</li> </ul>

General Conditions		Page-4
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.	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.
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.	The locations of ambient air quality monitoring stations is made decided in consultation with the state pollution control board (SPCB). It shall be ensured that at least one station is installed in the upwind & down- wind direction as well as where maximum ground level concentrations are
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).	Third Party is hired for monitoring the Noise level in the area. On Quarterly basis, the Monitoring of Noise is done.
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 programmes are integral part of our project execution plan. Training like fire drill, safety meetings are properly held on site on monthly basis.
6	The company shall also comply with all the environment protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environment management, risk mitigation measures and public hearing relating to the project shall be implemented.	Proper HIRA technique are implementing in project so the risk can be control. Emergency Response Plan of the project is made and available on project site.
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"> <li>• Separate fund is fixed for CSR activities and recently CSR activity was done at project site for the welfare of nearby areas.</li> <li>• CSR activities were undertaken by involving local villages and administration.</li> </ul>
8	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Proper Plantation and waste disposal techniques are implementing in project so that eco-development can be done.
9	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring function.	• A separate Environment Management Cell is set up to carry out the EMP and Monitoring functions.
10	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environmental and Forests as well as the state Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management/pollution control measures shall not be diverted for any other purpose.	• Sufficient fund is fixed to implement the MoEFCC as well as State Government conditions and it will be available whenever required.

SL.NO.	Conditions/ Guide lines	Status of Compliance
<b>General Conditions (Contd.)</b>		
11	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/representation, if any, were received while processing the	Copy of the clearance letter shall be given to all concerned.
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 MoEFCC, the respective Zonal Office of CPCB and JSPCB. A copy of Environmental clearance and six monthly compliance status report shall be posted on the website of the company.	Six Monthly Compliances of Environmental clearance were submitted to JSPCB and MoEFCC on 10th May 2019 for the of duration of 01.10.2018 to 31.03.2019. In Future, too it shall be submitted to respective authorities.
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 MoEFCC by e-mail.	Form - V for financial year ending 31st March 2019 was submitted. In future too it shall be submitted to the JSPCB and Regional office of MoEFCC at Ranchi for each financial year ending 31st March. The earlier statements have been put on the web site of PEPL, which can be accessed at www.prabhaenergy.com
14	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry and the copy of the clearance by the ministry and the copies of the clearance letter are available with the SPCB/Committees and may also be seen at website of the Ministry at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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"> <li>Local people were informed that the project has been accorded environmental clearance by the Ministry by advertising in local papers.</li> <li>The EC order is available on the website of the Ministry and ONGC.</li> </ul>
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"> <li>The project has the approval of MOPNG</li> <li>31st March of every year is the date of financial closure.</li> </ul>