



Oil & Natural Gas Corporation Limited
Health, Safety & Environment, MBA Basin
4th Floor, A-Wing, "Technopolis" Building,
Salt Lake Sector-5, Kolkata, 700091
Fax: 033-23670121

Office of the I/C HSE, Kolkata

File: HSE/EC compliance/APR-SEPT/ 2020-21

Dated: 06.10.2020

To,
The Director (S Ministry of Environment, Forest and Climate Change
Regional Office (EZ), A/3, Chandrasekharpur,
Bhubaneswar – 751023

Sub: Submission of six monthly EC compliance reports for the period April to September 2020

- Ref:**
1. EC letter Nos. J-11011/395/2011-IA-II(I) dt 16.09.2014 (Relinquished)
 2. EC letter Nos. J-11011/396/2011-IA-II(I) dt 22.01.2015
 3. EC letter Nos. J-11011/397/2011-IA-II(I) dt 25.06.2014

Respected Sir,

As per stipulated conditions under the above mentioned Environmental Clearance letters, the compliance reports of two active blocks are hereby submitted against each condition.

Drilling activities in the referred blocks of MBA Basin during 01.04.2020 to 30.09.2020 are as follows:

| Sl. No. | EC letter No. | Name of Block | Activity | Onshore /Offshore |
|---------|--|--------------------------|---|-------------------|
| 1 | J-11011/395/2011-IA-II(I) Dt. 16.09.2014 | WB-ONN-2005/2 (NELP-VII) | Block has been relinquished as on December 2017. | Onshore |
| 2 | J-11011/396/2011-IA-II(I) Dt. 22.01.2015 | WB-ONN-2005/3 (NELP-VII) | No Drilling Activity in this block during the period April 2020 – September 2020 | Onshore |
| 3 | J-11011/397/2011-IA-II(I) Dt. 25.06.2014 | WB-ONN-2005/4 (NELP-VII) | The Ashoknagar- 1 well was spudded on 01.09.2020 for re-entry of existing well for delineation and further appraisal of oil & gas reservoir discovery earlier in November 2018. Target Depth: 2260 m. The Ashokenagar-1 well has been re-entered by on shore Rig BI-2000-1. | Onshore |

Regards,

Yours faithfully,

(Ranadeep Ghosh)
GM (E), I/C HSE, MBA Basin

Enclosures:

1. EC Compliance Reports of WB ONN-2005/3
2. EC Compliance Reports of WB ONN-2005/4

Proposed EC Compliance Report for the Bengal On shore Block: WB-ONN-2005/3 (NELP-VII)

(EC letter no. J-11011/396/2011-IA-II (I), dated 22. 01.2015)

A. SPECIFIC CONDITIONS:

| Sl. No. | Conditions | Compliance Status |
|---------|---|--|
| i | The present environmental clearance is only for exploratory drilling. In case of development drilling is to be done in future, prior environmental clearance must be obtained from concerned authorities | Only exploratory drilling will be carried out. |
| ii | Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 for PM 10, PM 2.5, SO ₂ , NO _x , CO, methane & Non-methane HC etc. | Complied as per condition. |
| iii | Mercury shall also be analyzed in air, water and drill cutting twice during drilling period. | Complied as per condition. |
| iv | Approach road shall be made <u>pucca</u> to minimize generation of suspended dust. | Complied as per condition. |
| v | The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper <u>stack height</u> shall be provided as per CPCB guidelines. | Complied as per condition. |
| vi | Total water requirement shall not exceed <u>22 m³/day</u> and prior permission shall be obtained from the concerned agency. | Complied as per condition. (10-12 M ³ /D) |
| vii | The company shall construct the <u>garland drain</u> all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be | Complied. |

| | | |
|------|---|--|
| viii | Drilling wastewater including drill cutting wash shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste . Otherwise, secured landfill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB . Copy of authorization or | Complied as per condition |
| ix | Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak pit. | Complied. Good sanitation facility provided at the drilling site |
| X | Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers. | Complied |
| XI | The company shall comply with the guidelines for disposal of solid water , drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005 | Complied. |
| xii | The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation. | Complied |
| xiii | The company shall develop a contingency plan for H2S release including all necessary aspect from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus. | Complied as per condition. |
| xiv | On completion of drilling, the company have to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority. | Complied as per condition. |
| xv | Blow Out Preventer (BOP) system shall be installed to prevent well blowout during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc. | Complied |
| xvi | Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. | Complied. |

| | | |
|-------|---|---|
| xvii | 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 the area 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. | Dry well was abandoned with plugs as per OMR-84 |
| xviii | Abandoned well inventory and remediation plan shall be <u>submitted within six months</u> from the date of issue of letter. | Will be complied. |
| xix | Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. | Complied |
| xx | In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry. | Dry well was abandoned with Plugs. |
| xxi | Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Bhubaneswar. | Dry Well was abandoned and restored to natural position , No hydrocarbon Extraction . |
| xxii | Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bhubaneswar. | Complied as per condition |
| xxiii | Under <u>Enterprise Social Commitment (ESC)</u> , sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project. | Complied as per condition. Company has CSR department with sufficient budgetary. |
| xxiv | An audit shall be done to ensure that the <u>Environmental Management Plan</u> is implemented in totally and report should be submitted to the Ministry's Regional office. | Complied as per condition. |
| xxv | A social audit shall be carried out for the whole operation area with the help of reputed institute like Madras Institute of Social Science etc. | Will be complied as per condition. |
| xxvi | All personnel including those from the contractors <u>should be trained</u> and made tully aware of the hazards, risks and controls in place. | Complied. |
| | | |

| | | |
|--------|---|----------|
| xxvii | Company shall have own Environment Management Cell having qualified persons with proper background. | Complied |
| xxviii | Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues | Complied |

GENERAL CONDITIONS:

| Sl. No. | Conditions | Compliance Status |
|---------|--|--|
| I | The project <u>authorities must</u> strictly adhere to the stipulations made by the West Bengal Pollution Control Board(WBPCB), State Government and any other statutory authority. | The observations raised by the statutory authorities like West Bengal Pollution Control Board (WBPCB), State Government and statutory bodies are compiled as and when raised |
| li | No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviation or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | Will be complied |
| lii | The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approval from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable. | Complied as per condition. |
| | | |

| | | |
|-----|--|---|
| iv | <p>The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).</p> | <p>Complied. Regular noise monitoring had been carried out by calibrated machine.</p> |
| v | <p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.</p> | <p>Complied</p> |
| vi | <p>A copy of clearance letter shall be sent by the proponent to concerned panchayat, zila parishad/Municipal Corporation , Urban Local body and the local NGO, if any, from whom suggestions/representation , if any, were received while processing the proposal. The clearance letter shall also be put on the Web site of the company by the proponent.</p> | <p>A copy of Environmental Clearance (EC) has been circulated to the local administration</p> |
| vii | <p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Regional Office of the MOEF the respective Zonal office of CPCB and the WBPCB. The criteria pollutant levels namely;, PM10, SO2, NOx, HC (Methane & Non-methane), VOCs (ambient levels) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p> | <p>Compliance reports will be uploaded on company's website & to be sent to Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB.</p> |

| | | |
|------|--|---|
| viii | <p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of <u>CPCB</u> and the WBPCB. The regional Office of this Ministry / <u>CPCB</u> /WBPCB shall monitor the stipulated conditions. <u>Environmental Clearance</u> and six monthly Compliance status reports shall be posted on the website of the company.</p> | <p>We are submitting the six monthly compliance reports in every six months to MoEF</p> |
| ix | <p><u>The environmental statement</u> for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.</p> | <p>Will be complied as per condition.</p> |
| x | <p>The Project Proponent <u>shall inform</u> the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of <u>issue</u> 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 Regional Office.</p> | <p>Complied. Published in two local news paper</p> |
| Xi | <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p> | <p>Will be complied</p> |
| Xii | <p>The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. (as per letter F. No 22-34/2018-IA.III dated 16th January 2020 by MoEF&CC.</p> | <p>Is always complied with when civil restoration works for site restoration are under taken.</p> |

EC Compliance Report for the Bengal On shore Block: WB-ONN-2005/4 (NELP-VII)

(EC letter no. J-11011/397/2011-IA-II (I), dated 25. 06.2014)

A. SPECIFIC CONDITIONS:

| Sl. No. | Conditions | Compliance Status |
|---------|---|--|
| i | The present environmental clearance is only for exploratory drilling. In case of development drilling is to be done in future, prior environmental clearance must be obtained from concerned authorities | Only exploratory drilling will be carried out. |
| ii | Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 for PM 10, PM 2.5, SO ₂ , NO _x , CO, methane & Non-methane HC etc. | Under Compliance as per condition. |
| iii | Mercury shall also be analyzed in air, water and drill cutting twice during drilling period. | Being complied as per condition. |
| iv | Approach road shall be made <u>pucca</u> to minimize generation of suspended dust. | Complied as per condition. |
| v | The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper <u>stack height</u> shall be provided as per CPCB guidelines. | Complied as per condition. |
| vi | Total water requirement shall not exceed <u>22 m³/day</u> and prior permission shall be obtained from the concerned agency. | Complied as per condition. (10-12 M ³ /D) |
| vii | The company shall construct the <u>garland drain</u> all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be | Complied. |

| | | |
|------|---|--|
| viii | Drilling wastewater including drill cutting wash shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste . Otherwise, secured landfill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB . Copy of authorization or | Complied as per condition |
| ix | Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak pit. | Complied. Good sanitation facility provided at the drilling site |
| X | Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers. | Complied |
| XI | The company shall comply with the guidelines for disposal of solid water , drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005 | Being Complied. |
| xii | The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation. | Complied |
| xiii | The company shall develop a contingency plan for H2S release including all necessary aspect from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus. | Complied as per condition. |
| xiv | On completion of drilling, the company have to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority. | Will be Complied as per condition. |
| xv | Blow Out Preventer (BOP) system shall be installed to prevent well blowout during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc. | complied |
| xvi | Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. | Complied. |

| | | |
|-------|---|--|
| xvii | 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 the area 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. | Dry well is abandoned with plugs as per OMR-84 |
| xviii | Abandoned well inventory and remediation plan shall be submitted within six months from the date of issue of letter. | Will be complied. |
| xix | Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules. | Complied |
| xx | In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry. | Dry well will be abandoned with Plugs. |
| xxi | Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Bhubaneswar. | Well is temporarily abandoned |
| xxii | Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bhubaneswar. | Complied as per condition |
| xxiii | Under Enterprise Social Commitment (ESC), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project. | Complied as per condition Company has CSR department with sufficient budgetary. |
| xxiv | An audit shall be done to ensure that the Environmental Management Plan is implemented in totally and report should be submitted to the Ministry's Regional office. | Complied as per condition. |
| xxv | A social audit shall be carried out for the whole operation area with the help of reputed institute like Madras Institute of Social Science etc. | Will be complied as per condition. |
| xxvi | All personnel including those from the contractors should be trained and made fully aware of the hazards, risks and controls in place. | Complied. |
| | | |

| | | |
|--------|---|----------|
| xxvii | Company shall have own Environment Management Cell having qualified persons with proper background. | Complied |
| xxviii | Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues | |

GENERAL CONDITIONS:

| Sl. No. | Conditions | Compliance Status |
|---------|--|--|
| I | The project <u>authorities</u> must strictly adhere to the stipulations made by the West Bengal Pollution Control Board(WBPCB), State Government and any other statutory authority. | The observations raised by the statutory authorities like West Bengal Pollution Control Board (WBPCB), State Government and statutory bodies are complied as and when raised |
| li | No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviation or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | Will be complied. |
| lii | The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approval from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable. | Complied as per condition. |
| | | |

| | | |
|-----|---|---|
| iv | <p>The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).</p> | <p>Complied Regular noise monitoring has been carried out by authorized agency.</p> |
| v | <p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.</p> | <p>Complied</p> |
| vi | <p>A copy of clearance letter shall be sent by the proponent to concerned panchayat, zila parishad/Municipal Corporation , Urban Local body and the local NGO, if any, from whom suggestions/representation , if any, were received while processing the proposal. The clearance letter shall also be put on the Web site of the company by the proponent.</p> | <p>A copy of Environmental Clearance (EC) has been circulated to the local administration</p> |
| vii | <p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to Regional Office of the MOEF, the respective Zonal office of CPCB and the WBPCB. The criteria pollutant levels namely;, PM10, SO2, NOx, HC (Methane & Non-methane), VOCs (ambient levels) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p> | <p>Compliance reports will be uploaded on company's website & to be sent to Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB.</p> |
| | | |

| | | |
|------|--|---|
| Viii | <p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of <u>CPCB</u> and the <u>WBPCB</u>. The regional Office of this Ministry / <u>CPCB</u> /<u>WBPCB</u> shall monitor the stipulated conditions. <u>Environmental Clearance</u> and six monthly Compliance status reports shall be posted on the website of the company.</p> | <p>We are submitting the six monthly compliance reports in every six months to MoEFCC</p> |
| ix | <p><u>The environmental statement</u> for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.</p> | <p>Will be complied as per condition.</p> |
| x | <p>The Project Proponent shall <u>inform</u> the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of <u>issue</u> 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 Regional Office.</p> | <p>Complied. Published in two local news paper</p> |
| Xi | <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.</p> | <p>Will be complied</p> |
| Xii | <p>The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. (as per letter F. No 22-34/2018-IA.III dated 16th January 2020 by MoEF&CC.</p> | <p>Is always complied with when civil restoration works for site restoration are under taken.</p> |