

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

बोंगाइगॉव रिफाइनरी

डाकघर : धालीगॉव - 783 385

जिला : चिरांग (असम)

Indian Oil Corporation Limited

Bongaigaon Refinery

P.O. : Dhaligaon, Dist. : Chirang, Assam-783385

Phone : 03664-

E-mail :

Website : www.iocl.com FAX : 03664-



रिफाइनरी प्रभाग  
Refineries Division

IOC/BGR/ENV/MSQ/MoEF/2014-15/02

Date: 19.05.2015

**The Chief Conservator of Forests**  
Regional Office, North East Region  
Ministry of Environment & Forests  
Law-U-SIB, Lumbatngen, Near M.T.C. Workshop,  
Shillong – 793021

**Subject: Half yearly Report for the period of 1<sup>st</sup> October, 2014 to 31<sup>st</sup> March 2015 for MS Quality Improvement Project.**

Dear Sir,

With reference to above, we are enclosing the Six Monthly Report for the period of 1<sup>st</sup> October, 2014 to 31<sup>st</sup> March 2015 for your kind perusal. The reports are being sent as per EIA Rules, 2006 on the "Environmental Clearances" issued by MoEF to Bongaigaon Refinery, (BGR) for "MS Quality Improvement Project".

Thanking you,

Yours faithfully,

(A.K. Agarwal)  
Chief Manager (HSE)

Copy to:

1. Member Secretary, Pollution Control Board, Assam  
Bamunimaidam, Guwahati - 781 021
2. Zonal Officer, Central Pollution Control Board  
Eastern Zonal Office, 'TUM-SIR', Lower Motinagar,  
Near Fire Brigade H.Q., Shillong – 793014

Page 1 of 5

रजिस्टर्ड ऑफिस : जी-9, अलो यावर जंग मार्ग, बान्द्रा (पूर्व) मुम्बई - 400 051

रिफाइनरी डिविजन : हेड क्वार्टर : इंडियन ऑयल भवन, स्कोप कॉम्प्लेक्स, कोर - 2, 7, इंस्टिट्यूशनल एरिया, लोधी रोड, नई दिल्ली - 110 003

Regd. Office : G-9, All Yavar Jung Marg, Bandra (East) Mumbai-400 051

Refineries Division : Head Quarter IndianOil Bhavan, SCOPE Complex, Core-2, 7, Institutional Area, Lodhi Road, New Delhi - 110 003

## Compliance Status w.r.t. Env. Clearance of MS Quality Improvement Project

Six Monthly Status Report for the period (1<sup>st</sup> October, 2014 to 31<sup>st</sup> March 2015)

Environmental Clearance for “MS Quality Improvement Project (Light Naphtha Isomerisation using existing Xylene Isomerisation unit)” at Dhaligaon, Chirang, Assam by M/s Bongaigaon Refinery & Petrochemicals Ltd. vide MoEF letter No. J.11011/1171/2007-IA-II (I) dated 5/02/2008.

### Project was commissioned in September, 2011

| Sr. No. | Specific Conditions   | Compliance Status  |
|---------|---|--|
| i       | The company shall comply with new standards/norms that are being proposed by the CPCB for petrochemical plants and refineries.  | Basic Design Engineering Package / Process Package have been prepared in line with the revised standards / norms for Oil Refinery and being implemented in the project.  |
| ii      | The company shall comply with all the stipulations of environmental clearance issued vide File No. – 11011/375/2006-IA.II (I) dated 22 <sup>nd</sup> March, 2007.   | BGR had advertised “Public Notice” in three local news papers that are widely circulated in the region namely “The Assam Tribune” English daily, “Asomiya Pratidin” an Assamese daily & “Sanseyari Bodosa” a Bodo daily on 26 <sup>th</sup> February, 2008 |
| iii     | The process emissions (SO <sub>2</sub> , NO <sub>x</sub> , HC, VOCs and Benzene) from various units shall conform to the standards prescribed by the Assam State Pollution Control Board from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved. | Detailed Engineering for the project was carried out considering the revised standards / norms for Oil Refinery and conditions /guidelines issued by SPCB. Environment control facilities are being installed to achieve the stipulated standards.         |
| iv      | The improvement project shall be through the retrofitting of existing xylenes fractionation, Isomerisation and parex units and within the existing land.  | The improvement project is only through the retrofitting of existing Xylene Fractionation, Isomerisation and Parex units and within the existing land.   |
| v       | Quarterly monitoring of fugitive emissions shall be carried out as per the guidelines of CPCB by fugitive emission detectors (GMI Leak Surveyor) and reports shall be submitted to the Ministry’s regional office at Shillong.  | Complied   |
| vi      | For control of fugitive emission all unsaturated hydro carbon will be routed to the flare system and the flare system shall be designed for smoke less burning.   | Taken care during implementation of the project.   |
| vii     | The company shall strictly follow all the recommendation mentioned in the charter on corporate responsibility for environmental protection (CREP).  | Complied   |
| viii    | Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.  | Already in compliance  |

| <b>Sr. No.</b> | <b>Specific Conditions</b>  | <b>Compliance Status</b>   |
|----------------|---|--|
| ix             | Greenbelt shall be developed to mitigate the effect of fugitive emission all around the plant in a minimum 30% plant area in consultation with DFO as per CPCB guidelines.  | Greenbelt is already existed. Around 2/3 of plant area is having green cover. Tree Census has been carried out through DFO Chirang District. |
| x              | The Company shall make the suitable arrangement for disposal of catalyst waste and alumina balls. The report of waste disposal shall be submitted to Ministry's Regional Office at Shillong.  | Complied   |
| xi             | 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 flaring. | Complied   |
| xii            | To prevent fire and explosion at Oil and Gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material shall be in place.   | All necessary precautions are in place as per OISD Guidelines  |

#### **B. GENERAL CONDITIONS**

| <b>Sr. No.</b> | <b>General Conditions</b>  | <b>Compliance status</b>                                      |
|----------------|--|---|
| i              | The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and the State Government and any other statutory body.   | Taken care during implementation of the project.              |
| ii             | No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and Forests. In case of deviations or alternations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry.   | Noted   |
| iii            | At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system, the respective well site should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved. Provision of adequate height of stack attached to DG sets & flare is to be done. | Taken care during implementation of the project.              |
| iv             | Wastewater shall be properly collected and treated so as to conform to the standards prescribed under EP Act & Rules and mentioned in the Consents provided by the relevant SPCB.  | Waste water disposal system designed to conform to this norm. |

| Sr. No. | General Conditions  | Compliance status  |
|---------|---|--|
| V       | The overall noise levels in and around the premises shall be limited within the prescribed standards (75 dBA) 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 (day time) and 70 dBA (night time).  | Taken care during implementation of the project.                               |
| vi      | The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the expansion project, if required. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented. | Complied   |
| vii     | Disposal of hazardous wastes shall be as per the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/storage/disposal of hazardous wastes.   | Complied   |
| viii    | The project authorities will provide adequate funds as non-recurring and recurring expenditure 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 provided should not be diverted for any other purposes.  | Sufficient fund is being made available at the time of implementation.         |
| ix      | The company shall develop rain water harvesting structures to harvest the runoff water for recharge of ground water.  | 2 more Roof Top Rain Water Harvesting schemes implemented in the BGR Township. |
| x       | The stipulated conditions will be monitored by the concerned Regional Office of this Ministry /Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly. It will also be displayed on the Website of the Company.  | Complied   |

| <b>Sr. No.</b> | <b>General Conditions</b>  | <b>Compliance status</b>  |
|----------------|--|---|
| xi             | The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment & Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . This should 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 should be forwarded to the concerned Regional office of this Ministry. | BGR had advertised "Public Notice" in three local news papers that are widely circulated in the region namely "The Assam Tribune" English daily, "Asomiya Pratidin" an Assamese daily & "Sanseyari Bodosa" a Bodo daily on 26 <sup>th</sup> February, 2008. The information is already submitted to statutory agencies. |
| xii            | A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.   | BGR is already having a separate environmental management cell of HSE department and full fledged laboratory to carry-out environment management and monitoring functions.<br>BGR Env. Laboratory is accredited by NABL.  |
| xiii           | 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  | Financial Closure will be intimated in time.  |