

इंडियन ऑयल कॉर्पोरेशन लिमिटेड बोंगाइगाँव रिफाइनरी

डाकघर : धालीगाँव - 783 385 जिला : चिरांग (असम)

Indian Oil Corporation Limited

Bongaigaon Refinery P.O.: Dhaligaon - 783 385 Dist.: Chirang (Assam)

रिफाइनरीज प्रभाग Refineries Division

IOC/BGR/ENV/DHDT/MoEF/2012-13/02

Date: 17.05. 2013

To

The Chief Conservator of Forests

Regional Office, North East Region Ministry of Environment & Forests Law-U-SIB, Lumbatngen, Near M.T.C. Workshop,

Subject: Half yearly Report for the period of 1st October 2012 to 31st March 2013 for Diesel Hydro Treatment Plant

Dear Sir,

Shillong - 793021

With reference to above, we are enclosing the Six Monthly Report for the period of 1st October 2012 to 31st March 2013 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 "Diesel Hydro Treatment 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

ANNEXURE-B:

Hydro-treatment Project,
MoEF letter No. J.11011/78/2001-IA-II (I) dated 25/06/2002.
Renewal of "Environment Clearance" by MoEF on 01.05.2006

Six Monthly Status Report for the period: (1st October, 2012 to 31st March, 2013)

| i The company must comply with conditions and safeguards stipulated by the Ministry while granting environmental clearance to the refinery expansion project expansion project vide Ministry's OM No. J-1101112490-181 II (Jated 3". June 1991 ii A comprehensive risk assessment study for the complex must be undertaken and report submitted to the Ministry before commissioning of the Diesel hydrotreatment project. iii A comprehensive risk assessment study for the complex must be undertaken and report submitted to the Ministry before commissioning of the Diesel hydrotreatment project. iii A comprehensive risk assessment study for the Complex must be undertaken and report submitted to the Ministry before commissioning of the Diesel hydrotreatment project. 1. Rapid Risk Analysis (RRA) was carried by M. September 2006. RRA report is already submitted by September 2006. 2. HAZOP study for DHDT, Sulfur Block, HGU & Utilities & Off-sites area completed & submitted by consultant, (EIL) & the Frecommendations implemented. 3. Comprehensive Risk Assessment was comple M/s Chilworth Technology Pt. Ltd. New Delh Final report was submitted to 11.10.2010. iii The company must formulate and firm up a scheme/action plan for handling the oily sludge lagoon. The firmed up plan must be submitted to the Ministry within one year. iii The project proponent shall also comply with all the environmental protection measures to mitigate the risks including the following: iiv The project proponent shall also comply with all the environmental protection measures to mitigate the risks including the following: iiv The project proponent shall also comply with all the environmental protection measures to mitigate the risks including the following: iiv The project proponent shall also comply with all the environmental protection measures to mitigate the risks including the following: iiv The project proponent shall also comply with all the environmental protection measures of the leak so that the release duration and hence the hazardous con | SN | Specific Conditions | Compliance Status |
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| environmental protection measures to mitigate the risks ncluding the following: v | | scheme/action plan for handling the oily sludge which is presently being disposed off into the oil sludge lagoon. The firmed up plan must be submitted to the Ministry | As a measure of Hazardous Waste Management, M/s Balmer Lawrie & Co. Limited was awarded the contract of oily sludge processing along with bioremediation of residual solids .The party is carrying out the processing of oily sludge from sludge lagoons. About 15265 KL Oily Sludge has been processed till 31 st March, 2013. |
| and risk analysis report and also revised guidelines etc. in design stage itself. v a. Provision of double mechanical seal for the pumps handling H2S to reduce the frequency of failure b. Provision of adequate no. of H ₂ S detector (s) in appropriate locations of the plant for early detection of the leak so that the release duration and hence the hazardous consequence is reduced. b. Provision of adequate no. of H ₂ S detector (s) in appropriate locations of the plant for early detection of the leak so that the release duration and hence the hazardous consequence is reduced. b. Provision of adequate no. of H ₂ S detector (s) in appropriate locations of the plant for early detection of the leak so that the release duration and hence the hazardous consequence is reduced. DHDT: (HC = 7, H ₂ S = 5, H ₂ = 3) HGU: (H ₂ S = 6 & HC=1) SWSU: (H ₂ S=5 & HC=1) SWU: (H ₂ S=5 & HC=1) SRU: (H ₂ S=12, HC=3 & H ₂ = 2) Taken care of in design stage & indicated in respective P&IDs. Vi Government of Assam (Dept. of Forest and Wildlife), must prepare a contingency plan to mitigate the adverse impact of the increased human activities on the wildlife habitat around the refinery, mainly w.r.t. Golden Langur. Funds for implementing mitigation | iv | The project proponent shall also comply with all the | Taken care of all the environmental protection |
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| refinery should also arrange to provide free gas to the villagers residing within Kakijana reserved forests as well as residents of Hapachara, Garegaon, Gorapara, Rabhapura and Chitkagaon, so that felling of trees for fuel wood is reduced .A comprehensive Action Taken Repot should be submitted within one year. | vi | must prepare a contingency plan to mitigate the adverse impact of the increased human activities on the wildlife habitat around the refinery, mainly w.r.t. Golden Langur. Funds for implementing mitigation strategies should be provided by the company. The refinery should also arrange to provide free gas to the villagers residing within Kakijana reserved forests as well as residents of Hapachara, Garegaon, Gorapara, Rabhapura and Chitkagaon, so that felling of trees for fuel wood is reduced .A comprehensive Action Taken | BGR requested to MoEF for exemption of these conditions vide letter no. ENV/STAT/01/01 dated 31.07.2002. |

| S N | General Conditions | Compliance Status |
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| - | The project authority must adhere to the stipulations made by Assam State Pollution Control Board and State Government. | Stipulations made in the environmental clearance of the project are being addressed during detailed engineering also. The same has been addressed in the Basic Engineering Design Package, wherever applicable. |
| ii | No expansion or modification of the plant should be carried out without prior approval of this Ministry. | Noted |
| iii | Handling, manufacturing, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacturing, storage and transportation of hazardous chemicals Rules, 1989, as amended in 1991. Permission from State and Central nodal agencies in this regard must be obtained. | Noted |
| iv | Hazardous wastes, if any, must be handled and disposed as per Hazardous waste (Management and handling) Rules, 2000. Authorization from State Pollution Control Board in this regard must be obtained. | Noted Authorisation for handling and management of Hazardous Waste is accorded by SPCB, Assam under the Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008. |
| V | Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surrounding. | Infrastructure facilities like water supply, food canteen, sanitation are being provided phase wise to construction workers |
| vi | The overall noise levels in and around the plant area should be kept well within the standards (85 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). | (a) Taken care of in design stage and mentioned in process data sheets for various equipments wherever applicable in BDEPs. (b) All precautionary measures are taken at the construction site to control the noise level & present activities do not generate noise of high db. |
| vii | Occupational health Surveillance of the workers should be done on a regular basis and records maintained. | Contractors have been advised to carry out periodic health check-up of workers under their control. |
| S | General Conditions | Compliance Status |
| viii | A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive. | BGR is already having a separate environmental management cell and full fledged laboratory to carry-out environmental management and monitoring functions. Environment Laboratory of BGR is accredited by NABL. |
| ix | The funds earmarked for the environmental protection measures should be reported to this Ministry and SPCB. | Noted |

| X | Six monthly status report on the project vis-a-vis Implementation of environmental measures should be submitted to this Ministry (Regional Office, Shillong/ CPCB/ SPCB). | Complied |
|-----|---|---|
| xi | The project proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with State Pollution Control Board/Committee and may also be seen at Website of the Ministry and Forests at http://envfor.nic.in The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should forwarded to Ministry's Regional Office at Shillong. | Complied. |
| xii | The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closer and final approval of the project by the concerned authorities and the date of land development work. | Board of Directors of the Company has approved revised cost estimate of Rs.1646.39 crores (original approved cost is Rs. 1431.91 crores) for this project on 28th May, 2008. Closure shall be intimated in due course of time. |

| S. | CONDITIONS (As given in concurrence to changes in Env. Clearance dated May 1, 2006) | | |
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| No. | | | |
| i | The total SO_2 emission level from the unit after the proposed up gradation shall not exceed 40 kg/MT of the feed. | SRU is under stabilization | |
| ii | The company shall comply with the revised standards of NO_X emission. | Complied. | |
| iii | The total effluent generation shall not exceed 7.9 m ³ /hr. The fresh water consumption shall not exceed 275 m ³ /hr. | Gompilea. | |
| iv | No further modernization of project shall be carried out without prior permission of this Ministry. | Noted | |
| V | The company shall comply with the conditions stipulated in the clearance order of even no. dated 25 th June, 2002. | Complied | |
| vi | The company shall carry out a comprehensive risk assessment study and a copy submitted to the Ministry before commissioning of the Diesel Hydro Treatment Project. | Comprehensive Risk Assessment was completed by M/s Chilworth Technology Pvt. Ltd.,New Delhi and Final report was submitted on 11.10.2010. | |

APPENDIX

Status of Diesel Hydro-Treatment Project

(1st October, 2012 to 31st March, 2013)

Environmental Clearance for Diesel Hydro-treatment Project, MoEF's Letter No. J.1101/78/2001-IA-II (I) dated 25/06/2002

Status:

Following are some of the important mile stones towards implementing of the project:

Renewal of "Environment Clearance" from the Ministry of Environment & Forests:
 The Ministry of Environment & Forests had conveyed its 'No Objection' to the proposed revised Diesel up gradation project at IndianOil Bongaigaon Refinery vide their letter No. J-IIOII/78/2001 — IA 11(1) dated 01.05.2006.

2. Renewal of "NOC" from State Pollution Control Board:

Pollution Control Board of Assam had renewed the NOC vide their letter No.WB/Z-II/T-1 345/2000-2001/138 Dated Guwahati, the 8th May, 2006

3. Board approval for Project:

Board of Directors of IOCL has approved revised cost estimate of Rs. 1646.39 crores (original approved cost is Rs. 1431.91 crores) for this project on 28th May, 2008.

4. Fresh REIA & RRA Study:

Fresh REIA & RRA study for the project was carried out by M/s EIL, New Delhi. Final report was submitted in September, 2006.

Further, HAZOP study for DHDT unit (13.12.06 to 22.12.06), Sulfur Block (15.01.07 to 24.01.07), HGU (08.10.07 to 12.10.07) and OSBL Utilities & Off sites (16.10.07 to 17.10.07) completed and reports submitted by EIL on 04.01.07, 17.02.07, 27.10.07 & 31.10.07 respectively.

5. Commissioning of various units under DHDT project:

- (a) All the utilities & off sites viz. LP steam, MP steam, VHP steam, SW, DM, DW, Nitrogen, AP,AI, CK, Slop, GO,FG lines commissioned
- (b) H₂ unloading & Storage facility along with H2 unloading Compressor commissioned
- (c) All the Seven Feed tanks commissioned
- (d) Nitrogen plant & Flare System commissioned
- (e) HGU commissioned in March, 2011
- (f) DHDT Unit has been commissioned in August, 2011.
- (g) Amine Absorption Unit & Sour Water Stripping Unit commissioned
- (h) SRU has been commissioned by 27th December, 2012 and under stabilization
- (i) GTG is expected to be commissioned by May, 2013.

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