



REF: IOC/BGR/ENV/DHDT/MoEF&CC/2020-21/01

Date: 10.12.2020

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

Subject: Half yearly Report for the period of (1st April, 2020 to 30th September, 2020) for Diesel Hydro Treatment Plant

Sir,

With reference to above, we are enclosing the Six Monthly Report for the period of **1st April, 2020 to 30th September, 2020** for your kind perusal. The reports are being sent as per EIA Rules'2006 on the "Environmental Clearances" issued by MoEF&CC to Bongaigaon Refinery (BGR), for "Diesel Hydro Treatment Project".

Thanking you,

Yours faithfully,

(P. Ramchiary)
DGM (TS)

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



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

REF: IOC/BGR/ENV/DHDT/MoEF&CC/2020-21/01

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Near Fire Brigade H.Q., Shillong – 793014

“Half yearly Report for “Diesel Hydro Treatment Plant”

For the period (1st April, 2020 to 30th September, 2020)



Submitted by:

Indian Oil Corporation Limited

Bongaigaon Refinery

PO: Dhaligaon. District: Chirang. Assam

Diesel 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 April, 2020 to 30th September, 2020)

INDEX:

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|---------------|---|-----------------------------|
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| 9. | Details of Waste water treatment and disposal system | Furnished in Appendix-A7 |
| 10. | Quarterly Noise Survey Reports. | Furnished in Appendix-A8 |
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| 13. | Organogram of HSE Department | Furnished in Appendix-A11 |
| 14. | Gazette Notification of BGR Quality Control laboratory (QC Lab) approval under Environment (Protection) Act 1986. | Furnished in Appendix-A12 |
| 15. | Employees Occupational Health Check up Status | Furnished in Appendix-A13 |
| 16. | Flare system. | Furnished in Appendix-A14 |

ANNEXURE-A:

| Sr. No | Specific Conditions | Compliance Status |
|--------|---|---|
| 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-11011/24/90-IA II (I) dated 3 rd June 1991 | All conditions of the clearance are complied and verified by statutory agencies time to time. (Please Refer to compliance report of Refinery Expansion Project.) |
| ii | A comprehensive risk assessment study for the complex must be undertaken and report submitted to the Ministry before commissioning of the Diesel hydro-treatment project. | 1. Rapid Risk Analysis (RRA) was carried by M/s EIL in September'2006, and a copy of the report was also submitted to your good office vide our letter No. BRPL/ENV/MS-MAX/06-07/03 dated 08.11.2006. 2. Comprehensive Risk Assessment was conducted by M/s Chilworth Technology Pvt. Ltd. was submitted on 11.10.2010. 3. Post commissioning, fresh CRA was carried out by M/S CGC Converse Technologies in 2016. |
| iii | The company must formulate and firm up a 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 within one year. | AS on when required, third party is engaged for processing of the oily sludge & recovery of oil from the oily sludge stored in the sludge lagoon by mechanised processing. During 1st April, 2020 to 30th September, 2020 , 0.00 MT of oily sludge has been processed by mechanised processing. A confined bio reactor was commissioned in July 2017 in association with IOCL R&D for bio-remediation of residual oily sludge. During 1st April, 2020 to 30th September, 2020 , 210 MT of oily sludge has been processed in the Bio-reactor. |
| iv | The project proponent shall also comply with all the environmental protection measures to mitigate the risks including the following: | Environmental protection measures and safeguards recommended in the EMP and risk analysis reports are implemented & complied. |
| v | a. Provision of double mechanical seal for the pumps handling H ₂ S to reduce the frequency of failure | Taken care off in design stage, installed & commissioned. |
| v | 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. | Following no. of H ₂ S detectors along with HC/H ₂ detectors provided in various process units under DHDT project as on 31 st Dec'2018. DHDT : (HC = 7, H ₂ S = 5, H ₂ = 9) HGU : (HC = 10, CO = 4, H ₂ = 4) ARU : (H ₂ S = 7 & HC=1) SWSU : (H ₂ S=6 & HC=1) SRU : (H ₂ S=14, HC=3 & H ₂ =2) DHDT-Utility Area: (H ₂ S=3, HC=8, H ₂ = 3 |
| v | c. Provision of emergency stop button for rich amine group in the control room to stop the pump. | Taken care off in design stage, installed & commissioned. |

| Sr. No. | Specific Conditions | Compliance Status |
|---------|---|---|
| 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 strategies should be provided by the company. The refinery should also arrange to provide free gas to the villagers residing within Kakoijana 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. | Complied. i) Free LPG connection under 'Prime Minister's 'Ujjwala Yujana' has been provided by IOC, (M D) , in the villages mentioned ii) BGR has planted around 3000 tree saplings in Rabhapara in Kakoijana Reserve Forest iii) Awareness program was also arranged by IOCL, BGR, among the adjoining villagers of Kakoijana Reserve Forest. |

| SL. | General Conditions | Compliance Status |
|-----|---|---|
| i | The project authority must adhere to the stipulations made by Assam State Pollution Control Board and State Government. | Complied. Stipulations made in the environmental clearance of the project are taken care during detailed engineering and implemented. |
| ii | No expansion or modification of the plant should be carried out without prior approval of this Ministry. | Complied. EC was granted by MoEF&CC to BGR for IndMax & BS-VI projects vide letter F. no.J11011/48/2016-IA-II (I), Dated 19 th Apr'2017. The project aims to enhance expansion of Crude processing from 2.35 to 2.7 MMTP, other associated projects, e.g. DHDT capacity from 1.2 to 1.8 MMTP, HGU from 25 KTPA to 30 KTPA, CRU-MSQ revamp and SDS (SRU) unit. |
| 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. | Complied. Authorization under Hazardous and Other Waste (Management, and Transboundary Movement) Rules 2016 obtained from PCBA and valid up to 5th August, 2022. Copy attached as Appendix A6(b) . |
| iv | Hazardous wastes, if any, must be handled and disposed as per Hazardous waste (Management and handling) Rules, 2008. Authorization from State Pollution Control Board in this regard must be obtained. | Complied. Authorization under Hazardous and Other Waste (Management, and Transboundary Movement) Rules 2016 obtained from PCBA and valid up to 5 th August, 2022. Copy attached as Appendix A6 (b) . |

| SL. | General Conditions | Compliance Status |
|------|--|--|
| 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. | Complied. Infrastructure facilities like water supply, canteen facility, sanitation were provided during the project construction period to the 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). | Complied. a) Taken care off in the design stage, installed & commissioned. b) Precautionary measures were taken during construction period to control the noise level & present activities do not generate noise of high db. c) Quarterly Noise Survey is being carried out regularly to check noise level. Quarterly Noise survey report for the period of 1st April, 2020 to 30th September, 2020 , is attached as Appendix A8 . |
| vii | Occupational health Surveillance of the workers should be done on a regular basis and records maintained. | Complied. Attached as Appendix A13 . |
| 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. | Complied. BGR is having a separate environmental management cell of HSE department and full-fledged laboratory to carry-out environment management and monitoring functions. Organogram of HSE Department is attached as Appendix A11 . BGR Environment Laboratory is accredited by NABL and recognized by CPCB as under Section 12&13 of Environment (Protection) Act 1986 and notified in the Govt. of India Gazette no. 439 dated November 4, 2018 vide notification number Legal 42(3)/ 87 dated 3 rd October 2018. (Copy attached as Appendix A12) |
| ix | The funds earmarked for the environmental protection measures should be reported to this Ministry and SPCB. | Complied. Funds were made available for implementing all recommendations Expenditure for the financial year 2018-19 was Rs.1066.6 Lacks and in the financial year 2019-20 was Rs. 503.84 Lacks |
| x | Six monthly status reports on the project vis-a-vis Implementation of environmental measures should be submitted to this Ministry (Regional Office, Shillong/ CPCB/ SPCB). | Complied. Soft copy of last six monthly compliance reports was submitted vide, document no. IOC/BGR/ENV/DHDT/MoEF&CC/2019-20/02, Dtd: 20.06.2020. The six monthly compliance reports were also displayed on the Website of the Company. Screen shot attached as Appendix A10 . |

| SL. | General Conditions | Compliance Status |
|-----|--|--|
| 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 be 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.1701.52 Crore. Last capitalization date is 06.06.2015. The initial capitalization date is 13.08.2011 (Original approved cost is Rs. 1431.91 crore) for this project on 28th May, 2008. Financial closure of DHDT Project is not yet complete because of some pending issues of GTG package, which is part of DHDT Project. |

| Sr. No | CONDITIONS (As given in concurrence to changes in Env. Clearance dated May 1, 2006) | |
|--------|---|---|
| i | The total SO ₂ emission level from the unit after the proposed up gradation shall not exceed 40 kg/MT of the feed. | Taken care in design stage itself. |
| ii | The company shall comply with the revised standards of NO _x emission. | |
| iii | The total effluent generation shall not exceed 7.9 m ³ /hr The fresh water consumption shall not exceed 275 m ³ /hr. | |
| iv | No further modernization of project shall be carried out without prior permission of this Ministry. | EC was granted by MoEF&CC to BGR for IndMax & BS-VI projects vide letter F. no.J11011/48/2016-IA-II (I), Dated 19 th Apr'2017. The project aims to enhance expansion of Crude processing from 2.35 to 2.7 MMTP, other associated projects, e.g. DHDT capacity from 1.2 to 1.8 MMTP, HGU from 25 KTPA to 30 KTPA, CRU-MSQ revamp and SDS(SRU) unit. |
| 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. A comprehensive risk assessment study for the complex must be undertaken and report submitted to the Ministry before commissioning of the Diesel hydro-treatment project. | Complied. 1. Rapid Risk Analysis (RRA) was carried by M/s EIL in September'2006, and a copy of the report was also submitted to your good office vide our letter No. BRPL/ENV/MS-MAX/06-07/03 dated 08.11.2006. 2. Comprehensive Risk Assessment was conducted by M/s Chilworth Technology Pvt. Ltd. was submitted on 11.10.2010. 3. Post commissioning, fresh CRA was carried out by M/S CGC Converse Technologies in 2016. |

Status of Diesel Hydro-Treatment Project

(1st April, 2020 to 30th September, 2020)

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:

1. 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 Indian Oil - Bongaigaon Refinery vide their letter No.J-II0II/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.1701.52** Crore (original approved cost is Rs. 1431.91 crore) for this project.

4. Fresh REIA & RRA Study:

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.

Fresh HAZOP study completed by **Asia Pacific Risk Management Services Pvt. Ltd in February 2014**

Further, Fresh EIA & RRA for New Projects conducted in 2015-16 by M/s ABC Techno Lab Pvt. Ltd, Chennai

1. Commissioning of various units under DHDT project:

- a) All the utilities & off sites viz. LP steam, MP steam, VHP steam, Service Water, DM water, Drinking water, Nitrogen, Process Air, Inst. Air, 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) Hydrogen Generation Unit (HGU) commissioned in March, 2011
- f) Diesel Hydro Treatment (DHDT) Unit has been commissioned in August, 2011.
- g) Amine Absorption Unit & Sour Water Stripping Unit commissioned
- h) Sulfur Recovery Unit (SRU) commissioned in December, 2012.
- i) Gas Turbine Generator (GTG) with Heat Recovery Steam Generator (HRSG) commissioned in May, 2013.

APPENDIX –A1STACK MONITORING DATA: (1st April, 2020 to 30th September, 2020)A. SO₂ Emission (mg/Nm³):

| Stacks | Emission Std. | Observed value | | |
|---------------|----------------------------------|----------------|------|-------|
| | | Min | Avg. | Max |
| CDU-I | For F.O. = 1700 For F.G. = 50 | 8.3 | 46.0 | 143 |
| CDU-II | | 20.2 | 22.5 | 270 |
| DCU-I | | I/M | I/M | I/M |
| DCU-II | | 15.4 | 27.4 | 71.2 |
| CPP | | 17 | 178 | 453 |
| Reformer | | 8.3 | 11.4 | 22.8 |
| HO-1 | | 5.0 | 10.7 | 21.8 |
| HO-2 | | Shut Down | | |
| Isomerisation | | 0.8 | 16.8 | 59.3 |
| DHDT | | 8.3 | 13.6 | 127.2 |
| HGU | | 9.1 | 10.1 | 13.0 |
| SRU | | 90.2 | 90.4 | 90.4 |
| GTG | | 0.8 | 10.2 | 25.9 |

B. NO_x Emission (mg/Nm³)

| Stacks | Emission Std. | Observed value | | |
|---------------|----------------------------------|----------------|------|------|
| | | Min | Avg. | Max |
| CDU-I | For F.O. = 450 For F.G. = 350 | 80 | 81 | 82 |
| CDU-II | | 55 | 56 | 255 |
| DCU-I | | 0.6 | 1.4 | 12.5 |
| DCU-II | | 28.3 | 87.5 | 206 |
| CPP | | 9.7 | 48.5 | 52.1 |
| Reformer | | 2.3 | 38.4 | 47.8 |
| HO-1 | | 11.5 | 37.8 | 50.6 |
| HO-2 | | Shut Down | | |
| Isomerisation | | 0.7 | 56.6 | 101 |
| DHDT | | 0.4 | 42.6 | 47.1 |
| HGU | | 12.3 | 13.1 | 15.3 |
| SRU | | No Analyser | | |
| GTG | | 35.6 | 35.9 | 36.0 |

C. PM Emission (mg/Nm³)

| Stacks | Emission Std. | Observed value | | |
|---------------|---------------------------------|----------------|------|------|
| | | Min | Avg. | Max |
| CDU-I | For F.O. = 100 For F.G. = 10 | 0.40 | 0.59 | 10.4 |
| CDU-II | | 2.29 | 2.81 | 10.2 |
| DCU-I | | 0.11 | 3.17 | 27.3 |
| DCU-II | | 0.94 | 1.01 | 1.07 |
| CPP | | 0.07 | 0.82 | 65.5 |
| Reformer | | 0.89 | 0.90 | 0.93 |
| HO-1 | | 2.21 | 5.49 | 17.0 |
| HO-2 | | Shut Down | | |
| Isomerisation | | 0.30 | 0.31 | 0.31 |
| DHDT | | 1.23 | 1.26 | 1.47 |
| HGU | | 4.06 | 4.48 | 6.91 |
| SRU | | 5.31 | 8.34 | 13.6 |
| GTG | | 16.8 | 20.7 | 32.1 |

STACK MONITORING DATA: (1st April, 2020 to 30th September, 2020)

D. CO Emission (mg/Nm³)

| Stacks | Emission Std. | Observed value | | |
|---------------|----------------------------------|----------------|------|-------|
| | | Min | Avg. | Max |
| CDU-I | For F.O. = 200 For F.G. = 150 | 20.5 | 21.9 | 25.6 |
| CDU-II | | 12.4 | 27.6 | 190.1 |
| DCU-I | | 2.70 | 21.9 | 37.0 |
| DCU-II | | 1.49 | 1.63 | 1.76 |
| CPP | | 0.22 | 15.2 | 86.3 |
| Reformer | | 0.01 | 11.7 | 109.7 |
| HO-1 | | 0.62 | 13.1 | 78.7 |
| HO-2 | | Shut Down | | |
| ISOMERISATION | | 14.8 | 18.5 | 31.4 |
| DHDT | | 0.99 | 5.10 | 10.5 |
| HGU | | 8.42 | 17.7 | 22.9 |
| SRU | | 14.9 | 15.0 | 17.5 |
| GTG | | 1.78 | 9.11 | 27.9 |

E. Ni + V Emission (mg/Nm³):

| Stacks | Emission Std. | Observed value | | |
|---------------|---------------|----------------|------|-----|
| | | Min | Avg. | Max |
| CDU-I | For F.O. = 5 | BDL | BDL | BDL |
| CDU-II | | BDL | BDL | BDL |
| DCU-I | | BDL | BDL | BDL |
| DCU-II | | BDL | BDL | BDL |
| CPP | | BDL | BDL | BDL |
| Reformer | | BDL | BDL | BDL |
| HO-1/2 | | BDL | BDL | BDL |
| ISOMERISATION | | BDL | BDL | BDL |
| DHDT | | BDL | BDL | BDL |
| HGU | | BDL | BDL | BDL |
| SRU | | BDL | BDL | BDL |
| GTG | | BDL | BDL | BDL |

AMBIENT AIR QUALITY AROUND BGR COMPLEX

(Average of monthly sample Schedule – VII)

(1st April, 2020 to 30th September, 2020)

| | Station | Continuous Monitoring Station | Near Tube Well No.14 | Near LPG Bottling plant | Rural Health Centre | Bartala Rail Gate | Near TW No.7 in Township |
|----------|---|-------------------------------|----------------------|-------------------------|---------------------|-------------------|--------------------------|
| 1 | SO₂ (Std. 50/80 µg/m³) | | | | | | |
| | Min | 4.28 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| | Average | 4.30 | 6.11 | 5.65 | 7.14 | 6.76 | 5.29 |
| | Max | 4.85 | 10.60 | 8.80 | 13.50 | 12.40 | 10.20 |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 |
| 2 | NO₂ (Std. 40/80 µg/m³) | | | | | | |
| | Min | 3.91 | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 |
| | Average | 6.19 | 10.64 | 10.34 | 11.20 | 11.16 | 10.17 |
| | Max | 6.20 | 14.70 | 14.10 | 16.60 | 16.90 | 19.80 |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 |
| 3 | PM-10 (Std. 60/100 µg/m³) | | | | | | |
| | Min | 5.26 | 28.00 | 28.00 | 32.00 | 28.00 | 24.00 |
| | Average | 6.04 | 50.16 | 50.13 | 56.58 | 53.04 | 45.34 |
| | Max | 8.74 | 75.80 | 76.50 | 83.40 | 82.40 | 71.90 |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 |
| 4 | PM-2.5 (Std. 40/60 µg/m³) | | | | | | |
| | Min | 1.32 | 12.00 | 12.00 | 15.00 | 14.00 | 12.00 |
| | Average | 1.76 | 24.42 | 23.89 | 27.75 | 25.64 | 22.18 |
| | Max | 5.41 | 38.10 | 37.50 | 43.10 | 43.50 | 40.80 |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 |
| 5 | Ammonia (Std. 100/400 µg/m³) | | | | | | |
| | Min | 4.64 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| | Average | 7.40 | 8.06 | 7.45 | 8.43 | 7.45 | 6.59 |
| | Max | 7.42 | 15.10 | 12.20 | 16.20 | 12.50 | 15.10 |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 |
| 6 | Pb (Std. 0.5/1.0 µg/m³) | | | | | | |
| | Min | | BDL | BDL | BDL | BDL | BDL |
| | Average | | BDL | BDL | BDL | BDL | BDL |
| | Max | | BDL | BDL | BDL | BDL | BDL |
| | No. of observation | | 27 | 27 | 28 | 28 | 28 |
| 7 | Arsenic (As) (Std. 6 ng/m³) | | | | | | |
| | Min | | BDL | BDL | BDL | BDL | BDL |
| | Average | | BDL | BDL | BDL | BDL | BDL |
| | Max | | BDL | BDL | BDL | BDL | BDL |
| | No. of observation | | 27 | 27 | 28 | 28 | 28 |

| | Station | Continuous Monitoring Station | Near Tube Well No.14 | Near LPG Bottling plant | Rural Health Centre | Bartala Rail Gate | Near TW No.7 in Township | | | | | |
|--------------------------------|--|-------------------------------|----------------------|-------------------------|---------------------|-------------------|--------------------------|--------|-------------------|-------------------|-------------------------------|----------------|
| 8 | Ni (Std. 20 ng/m³) | | | | | | | | | | | |
| | Min | | 1.50 | 1.20 | 0.80 | 0.80 | 0.70 | | | | | |
| | Average | | 1.81 | 2.09 | 1.87 | 2.05 | 0.93 | | | | | |
| | Max | | 2.30 | 2.80 | 2.50 | 2.60 | 1.50 | | | | | |
| | No. of observation | | 27 | 27 | 28 | 28 | 28 | | | | | |
| 9 | CO (Std. 2/4 mg/m³) | | | | | | | | | | | |
| | Min | 0.00 | 0.22 | BDL | 0.16 | 0.33 | 0.29 | | | | | |
| | Average | 0.14 | 0.22 | BDL | 0.24 | 0.33 | 0.29 | | | | | |
| | Max | 0.46 | 0.22 | BDL | 0.31 | 0.33 | 0.29 | | | | | |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 | | | | | |
| 10 | Ozone (Std.100/180 µg/m³ for 8 hrs/1 hr) | | | | | | | | | | | |
| | Min | 33.22 | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | | | | | |
| | Average | 37.75 | 11.72 | 7.37 | 10.07 | 9.95 | 7.36 | | | | | |
| | Max | 46.46 | 26.40 | 20.00 | 21.20 | 23.50 | 22.10 | | | | | |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 | | | | | |
| 11 | Benzene (Std. 5 µg/m³) | | | | | | | | | | | |
| | Min | 0.24 | BDL | BDL | BDL | BDL | BDL | | | | | |
| | Average | 0.27 | BDL | BDL | BDL | BDL | BDL | | | | | |
| | Max | 0.30 | BDL | BDL | BDL | BDL | BDL | | | | | |
| | No. of observation | Continuous | 27 | 27 | 28 | 28 | 28 | | | | | |
| 12 | Benzo (a) Pyrene (Std. 1 ng/m³) | | | | | | | | | | | |
| | Min | | BDL | BDL | BDL | BDL | BDL | | | | | |
| | Average | | BDL | BDL | BDL | BDL | BDL | | | | | |
| | Max | | BDL | BDL | BDL | BDL | BDL | | | | | |
| | No. of observation | | 27 | 27 | 28 | 28 | 28 | | | | | |
| Average of Six Stations | | | | | | | | | | | | |
| Parameter | SO ₂ | NO ₂ | PM-10 | PM-2.5 | NH ₃ | Pb | As | Ni | Benzo (a) Pyrene | CO | C ₆ H ₆ | O ₃ |
| Unit | µg/m ³ | | | | | ng/m ³ | | | mg/m ³ | µg/m ³ | | |
| NAAQ Std. 2009 | 50/80 | 40/80 | 60/100 | 40/60 | 100/400 | 0.5/1.0 | Max 6 | Max 20 | Max 1 | 2/4 | Max 5 | 100/180 |
| Min | 4.00 | 3.91 | 5.26 | 1.32 | 4.64 | BDL | BDL | 0.70 | BDL | 0.00 | 0.26 | 5.00 |
| Average | 5.88 | 9.95 | 43.55 | 20.94 | 7.56 | BDL | BDL | 1.75 | BDL | 0.24 | 0.28 | 14.04 |
| Max | 13.5 | 19.8 | 83.40 | 43.50 | 16.20 | BDL | BDL | 2.80 | BDL | 0.46 | 0.28 | 46.46 |

APPENDIX-A2**Effluent Discharged (Figure in M³/Hr): (1st April, 2020 to 30th September, 2020)**

| | | |
|----------|--|---------------|
| A | Industrial Effluent M³/Hr | 169.16 |
| B | Domestic Effluent from BGR Township M³/Hr | 45.6 |
| C | Total Effluent Treated (A + B) M³/Hr | 214.8 |
| D | Treated Effluent Reused M³/Hr | 212.8 |
| E | Effluent Discharged M³/Hr | 2.02 |
| F | M³ of Effluent discharged for 1000 tons of Crude processed | 7.51 |

1. Treated Effluent Quality**(1st April, 2020 to 30th September, 2020)**

| Sl. No | Parameter | Std,2008 | Min | Avg. | Max |
|---------------|--|-----------------|------------|-------------|------------|
| 1 | p ^H value | 6.0 - 8.5 | 6.5 | 6.9 | 7.5 |
| 2 | Oil and Grease, mg/l | 5.0 | 1.2 | 3.6 | 5.0 |
| 3 | Bio-Chemical Oxygen Demand (3 Day at 27°C), mg/l | 15.0 | 2.0 | 7.0 | 14.0 |
| 4 | Chemical Oxygen Demand (COD), mg/l | 125.0 | 4.0 | 29.4 | 123.0 |
| 5 | Suspended solids, mg/l | 20.0 | 8.0 | 14.4 | 20.0 |
| 6 | Phenolic compounds (as C ₆ H ₅ OH), mg/l | 0.35 | 0.04 | 0.15 | 0.35 |
| 7 | Sulphide (as S), mg/l | 0.50 | 0.04 | 0.21 | 0.50 |
| 8 | CN mg/l | 0.20 | 0.10 | 0.10 | 0.10 |
| 9 | Ammonia as N, mg/l | 15.0 | 1.12 | 1.43 | 1.70 |
| 10 | TKN, mg/l | 40.0 | 4.50 | 4.84 | 5.30 |
| 11 | P, mg/l | 3.0 | 0.21 | 0.28 | 0.42 |
| 12 | Cr (Hexavalent), mg/l | 0.10 | 0.05 | 0.05 | 0.050 |
| 13 | Cr (Total), mg/l | 2.0 | 0.05 | 0.05 | 0.050 |
| 14 | Pb, mg/l | 0.10 | 0.02 | 0.04 | 0.06 |
| 15 | Hg, mg/l | 0.01 | 0.001 | 0.001 | 0.001 |
| 16 | Zn, mg/l | 5.0 | 0.24 | 0.39 | 0.52 |
| 17 | Ni, mg/l | 1.0 | 0.15 | 0.18 | 0.20 |
| 18 | Cu, mg/l | 1.0 | 0.12 | 0.16 | 0.18 |
| 19 | V, mg/l | 0.20 | 0.10 | 0.10 | 0.10 |
| 20 | Benzene, mg/l | 0.10 | 0.01 | 0.01 | 0.01 |
| 21 | Benzo (a) pyrene, mg/l | 0.20 | 0.01 | 0.01 | 0.01 |

EFFLUENT QUALITY

2. Final Outlet (From the Complex) Effluent Quality

(1st April, 2020 to 30th September, 2020)

| Sl. No. | Parameter | Std 2008 | Min | Avg. | Max |
|---------|--|-----------|-------|-------|--------|
| 1 | p ^H value | 6.0 - 8.5 | 6.00 | 6.71 | 7.50 |
| 2 | Oil and Grease, mg/l | 5.0 | 0.60 | 3.59 | 5.00 |
| 3 | Bio-Chemical Oxygen Demand (3 Days at 27° C), mg/l | 15.0 | 2.00 | 6.2 | 14.00 |
| 4 | Chemical Oxygen Demand (COD), mg/l | 125.0 | 4.00 | 22.2 | 122.00 |
| 5 | Suspended Solids, mg/l | 20.0 | 4.00 | 12.4 | 20.00 |
| 6 | Phenolic compounds (as C ₆ H ₅ OH), mg/l | 0.35 | 0.03 | 0.13 | 0.35 |
| 7 | Sulphide (as S), mg/l | 0.50 | 0.04 | 0.16 | 0.45 |
| 8 | CN, mg/l | 0.20 | 0.01 | 0.01 | 0.01 |
| 9 | Ammonia as N , mg/l | 15.0 | 1.24 | 1.68 | 2.12 |
| 10 | TKN, mg/l | 40.0 | 3.50 | 4.78 | 5.80 |
| 11 | P, mg/l | 3.0 | 0.25 | 0.31 | 0.38 |
| 12 | Cr (Hexavalent), mg/l | 0.10 | 0.05 | 0.05 | 0.05 |
| 13 | Cr (Total), mg/l | 2.0 | 0.05 | 0.05 | 0.05 |
| 14 | Pb, mg/l | 0.10 | 0.01 | 0.035 | 0.06 |
| 15 | Hg, mg/l | 0.01 | 0.001 | 0.001 | 0.001 |
| 16 | Zn, mg/l | 5.0 | 0.28 | 0.350 | 0.45 |
| 17 | Ni, mg/l | 1.0 | 0.10 | 0.17 | 0.21 |
| 18 | Cu, mg/l | 1.0 | 0.14 | 0.166 | 0.2 |
| 19 | V, mg/l | 0.20 | 0.10 | 0.10 | 0.10 |
| 20 | Benzene, mg/l | 0.10 | 0.01 | 0.01 | 0.01 |
| 21 | Benzo (a) pyrene, mg/l | 0.20 | 0.01 | 0.01 | 0.01 |

**Tree Plantation
(1st April, 2020 to 30th September, 2020)**

The entire area inside BGR covered with greenery through massive plantation activities. Through massive plantation work and by giving protection to natural forest growth in side BGR premises, the entire area has become green. The entire plant area where processing plant facilities do not exist has a green cover. This helps in reduction of noise and air pollution level in one hand while on the other hand provides protection to ecological features of the area. The refinery has an excellent quality environment around its complex. Natural greenery can be seen all around the complex and in all seasons of the year. Tree Census was done by Divisional Forest Office, Chirang. As per census, 84545 numbers of plants which include trees including shrubs, ocular estimated 33000 numbers bamboos in 1150 no. bamboo culms and also trees planted by BGR during 2003 to 2012

In the financial year 2018-19, BGR has planted 30,062 nos and in FY 2019-20 14340 nos. of sapling in and around the complex

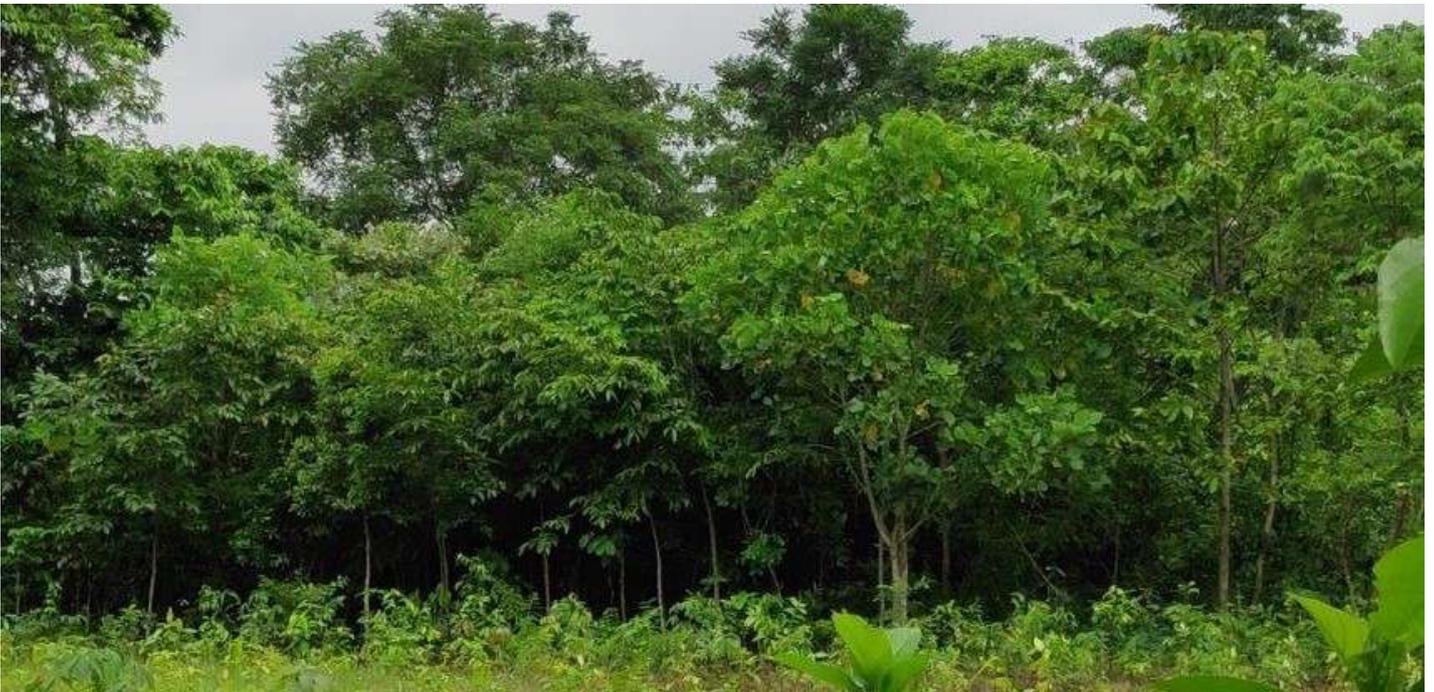
During, 1st April, 2020 to 30th September, 2020 BGR has planted 19406 nos. of tree saplings

Tree Plantation 2017-18



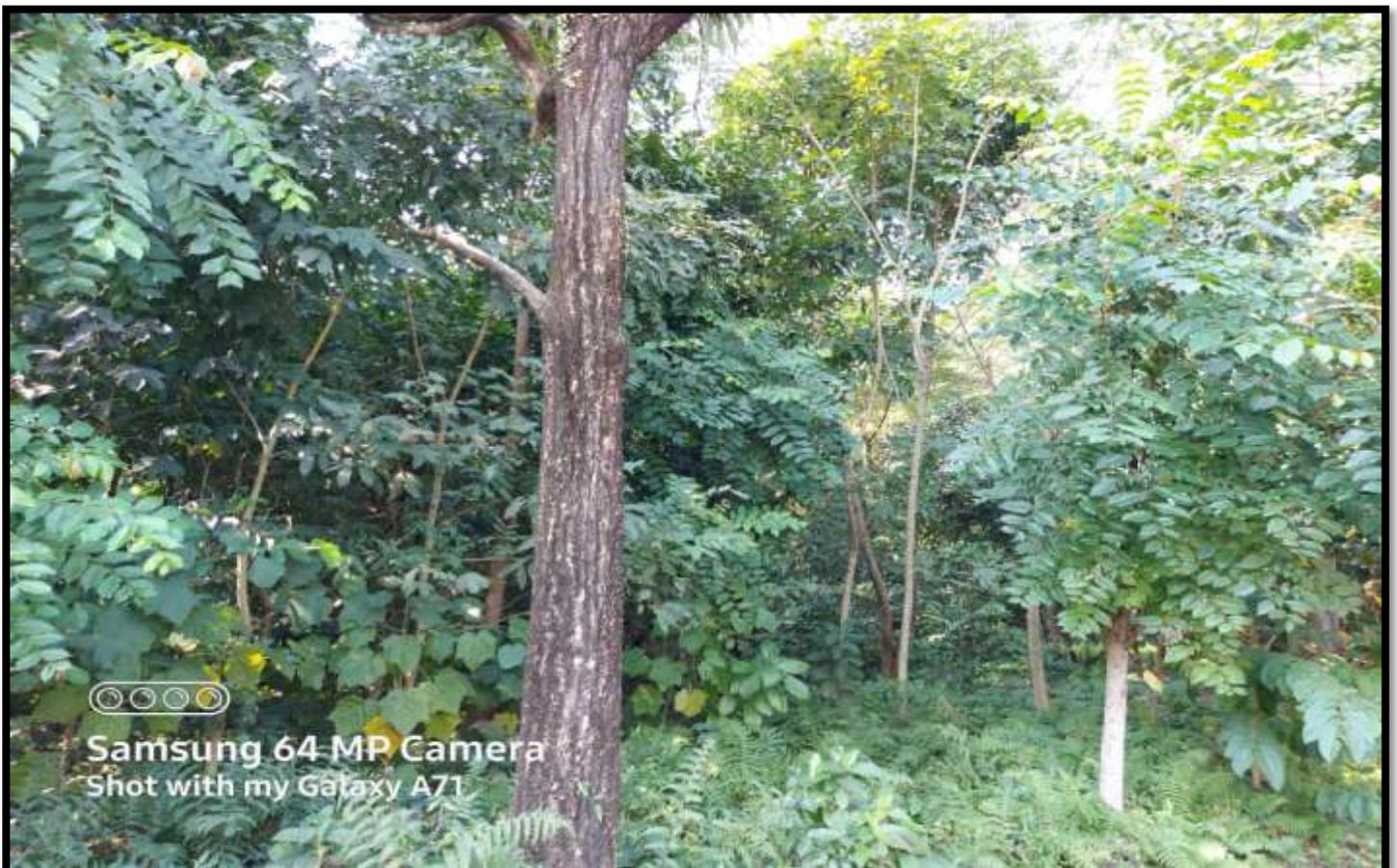
**COMPLEX OLD DEBRIS YARD DEVELOPED INTO GREEN BELT. Planted in July'17,
GROWTH as on 04.10.19**

Tree Plantation 2017-18



Birhangaon State Dispensary Plantation, 10,000 nos. Sapling Planted by Miyawaki Method in the month of August,2017. Growth as on 30.06.2020

Tree Plantation 2017-18



IOCL, BGR TOWNSHIP PLANTATION. Planted on April'17 Growth as on 14.10.2020

Tree Plantation 2018-19



BGR TOWNSHIP PLANTATION, Planted Van mahotsav 2018, Growth as on 14.10.2020

Tree Plantation 2019-20



North Bongaigaon High School, 5250 Sapling Planted by Miyawaki Method in the month of September,2019

Tree Plantation 2019-20



Birhangaon State Dispensary Plantation, 5375 nos. Sapling Planted by Miyawaki Method in the month of September,2019 Growth as on 14.10.2020.

Tree Plantation 2020-21



On WED'2020, 3740 nos. of sapling planted in BGR Township.



4810 nos of sapling Planted in the month of August'2020 at Hatipota Brahma Mandir.



4000 nos of sapling planted at Kashikotra Model Hospital in Nov'2020

APPENDIX – A 4

Additional Information

(1st April, 2020 to 30th September, 2020)

Effluent reused during the period was around **99.06%** of the total effluent treated which includes plant effluent as well as BGR Township sewer.

Under the Leak Detection and Repair programme (LDAR), BGR is conducting quarterly Fugitive Emission Survey. During the period from **1st April, 2020 to 30th September, 2020, 2020, 18194** potential leaky points checked and **148** Leaky points detected and rectified. By following LDAR programme in true spirit, the company could not only avoid potential loss of 152.7 MTA (approx.) of light Hydrocarbon to the atmosphere through fugitive sources but also able to keep healthy work environment in the plants.

To ensure work area quality and health of equipments, quarterly noise survey was conducted covering all the operating plants, control rooms and ambient surrounding the BGR. During **1st April, 2020 to 30th September, 2020**, Noise Survey for the two quarters of **2019-20** has been completed and no abnormality was reported.

As a measure of Hazardous Waste Management, A third party has been engaged for processing tank bottom sludge through mechanized treatment. Another third party is engaged for processing of the oily sludge & recovery of oil from the oily sludge stored in the concrete lagoon. Melting pit facility is available for recovering oil from oily sludge.

One old slurry thickener from Petrochemical section was converted to confined space bio-remediation reactor to treat oily sludge with help from IOCL-R&D. The process of bio-remediation started from July 2017 and at present per batch approximately 35 m³ of oily sludge is being processed. From **1st April, 2020 to 30th September, 2020, 210 MT** of oily sludge has been processed in the Bio-reactor.



Bio-remediation facility of BGR

Further two more Rain Water Harvesting (Ground Water Recharging) schemes in BS-VI project have been implemented during 2019-20 and one more in the FY 2020-21.

APPENDIX –A5

Quarterly Fugitive emission Data
(1st April, 2020 to 30th September, 2020)



**FUG EMISSION DATA
1ST QTR 20-21.doc**



**FUG EMISSION DATA
2ND QTR 20-21.doc**

8.0

APPENDIX-A6 (a)



Haz Waste Return
FORM-4 (2019-20).doc

**Authorization from PCBA for Hazardous Waste
(Management and Transboundary Movement) Rules 2016**

Pollution Control Board:: Assam
Bamunimaidam; Guwahati-21
 (Department of Environment & Forests :: Government of Assam)
 Phone: 0361-2652774 & 2550258; Fax: 0361-2550259
 Website: www.pcbassam.org



No. WB/BONG/T-748/19-20/109

Dated Guwahati the, 6/8 2019

FORM – 2
[See Rule 6(2)]

**[Grant of Authorization under the Provision of the Hazardous and Other
 Wastes (Management & Transboundary Movement) Rules, 2016]**

1. Number of Authorisation and date of issue : No. WB/BONG/T-748/19-20/109 dtd.
2. Reference of application (No. and date) : UAIN: PCB/F34/CH/000056/12/2018
3. **M/s. IOCL BONGAIGAON REFINERY (A UNIT OF INDIAN OIL CORPORATION LIMITED), NH 31C, , DHALIGAON , CHIRANG (Assam)** is hereby granted an authorisation based on the enclosed signed inspection report for collection, reception, storage of hazardous or other wastes or both.

DETAILS OF AUTHORISATION

| Sl. No. | Category of Hazardous Waste as per the Schedules-I, II & III of these rules | Authorised mode of disposal or recycling or utilisation or co-processing, etc. | Quantity (ton/annum) |
|---------|--|--|----------------------|
| 1 | Schedule-I, Sl. No. 3.3, Oily Sludge | Generation, Collection, Transportation and Storage | 67.25 KI/month |
| 2 | Schedule-I, Sl. No. 1.6, Spent Catalyst | Generation, Collection, Transportation and Storage | 4.17 MT/month |
| 3 | Schedule-I, Sl. No. 1.7, Slop Oil | Generation, Collection, Transportation and Storage | 2205 MT/month |
| 4 | Schedule-I Sl. No. 5.1, used or spent oil | Generation, Collection, Transportation and Storage | 0.50 MT/month |
| 5 | Schedule-I, Sl. No. 33.1, Empty Barrels, Containers, Liners, Drums (metal, glass, plastic) contaminated with hazardous chemicals | Generation, Collection, Transportation and Storage | 1.85 MT/month |

4. This authorisation shall be in force for the period of three years from the date of issue of this letter.
5. The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. GENERAL CONDITIONS OF AUTHORISATION:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time

Contd....p/2

APPENDIX-A7

Detail of Waste water treatment and disposal system.



ETP Description.pdf

ANNEXURE-A8

Quarterly Noise Survey Data

(1st April, 2020 to 30th September, 2020)

HSE (ENVIRONMENT) DEPARTMENT



NOISE SURVEY DATA
1st QTR 20-21.docx



NOISE SURVEY DATA
2ND QTR 2020-21.do

ANNEXURE-A9
Rain Water Harvesting Data

BGR: Rain Water Harvesting till Sept 2020

| Sl.No. | RWH systems | Area in m ² | Recharging, m ³ /Yr | Total Recharging, m ³ /Yr | Status |
|--------|---|------------------------|--------------------------------|--------------------------------------|---------------------------|
| 1 | Rainwater Harvesting at Mandir Complex Pond | 7125 | 20748 | 99239.14 | In operation |
| 2 | Manjeera Guest House | 677 | 1848 | | |
| 3 | Deoshri Guest House | 581 | 1586 | | |
| 4 | Rainwater Harvesting at Parivesh Udyan Pond | 5775 | 16817 | | |
| 5 | Rainwater Harvesting at Eco-Park Pond | 20000 | 58240 | | |
| 6 | Mandir Complex | 833 | 2274 | 14697 | In operation |
| 7 | Manas Guest House | 639 | 1744 | | |
| 8 | BGR HS School, BGR Township | 1361 | 3716 | | |
| 9 | DPS Block-I | 704 | 1922 | | |
| 10 | DPS Block-II | 1810 | 4941 | | |
| 11 | BGR Canteen, CISF Office & Scooter Shed | 3134 | 8556 | 8556 | In operation |
| 12 | Champa Club (Officers Club) | 1100 | 3003 | 10046 | In operation |
| 13 | Refinery Club cum Community Centre | 2580 | 7043 | | |
| 14 | Employee Union Conference Hall Building | 275 | 751 | 3003 | In operation |
| 15 | CISF Quarter Guards Building | 825 | 2252 | 4641 | In operation |
| 16 | CISF Conference Hall & Barack | 1050 | 2867 | | |
| 17 | BGR Community Centre | 650 | 1775 | | |
| 18 | Foot Ball Stadium gallery | 988 | 2697 | 2697 | In operation |
| 19 | Vollyball Stadium Gallery | | | | |
| 20 | Control Room – BS-VI | 1372.5 | 3747 | 3747 | Commissioned in June'2020 |
| 21 | Substation – BS-VI | 942 | 2572 | 2572 | |
| 22 | Admin. Block-B | 1730 | 4723 | 4723 | Commissioned in Aug'2020 |
| | TOTAL | 54,152 | 153821 | 153821 | |


 18/11/2020
 P. Ramchiamy
 DGM (TS)

ANNEXURE-A10
Screen Shot of IOCL Website upload of report
Link: <https://iocl.com/Talktous/SNotices.aspx>

The screenshot shows the IOCL website's 'Statutory Notices' page. The header includes the IOCL logo, navigation menu, and social media links. The main content area lists several notices, with one notice highlighted by a black arrow pointing to it from the left side of the page.

Statutory Notices

- Half Yearly Compliance Report of ECs issued to IOCL, Paradip Refinery [New!](#)
- Statutory clearances and compliance status of Haldia Refinery
 - HR_BS VI/2017_EC
 - HR_Corrected EC for DYP and CDU expansion corrigendum 20.03.2017
- Six Monthly Compliance Indmax BS VI etc 2nd half, 2019-20
- Six Monthly Compliance (Refinery-II) 2nd half, 2019-20
- Six Monthly Compliance (MS Maximisation) 2nd half 2019-20
- Six Monthly Compliance (MS Quality improvement project) 2nd half, 2019-20
- Six Monthly Compliance (DHDT Project) 2nd half 2019-20
- Half yearly compliance report of conditions stipulated in all existing ECs of Haldia Refinery' for the period of Oct'19 to Mar'20
- Half Yearly Compliance Reports (October'19 - March 20)
- Half Yearly Compliance Reports (April'19 - September'19)
- Capacity Determination compliance report as per Schedule -I, under Regulation 4 (2) of the Petroleum and Natural Gas Regulatory Board (Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines) Regulations, 2008 as on 01.06.2020
- Capacity Determination compliance report as per Schedule -I, under Regulation 4 (2) of the Petroleum and Natural Gas Regulatory Board (Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines) Regulations, 2008 as on 01.05.2020
- Capacity Determination compliance report as per Schedule -I, under Regulation 4 (2) of the Petroleum and Natural Gas Regulatory Board (Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines) Regulations, 2008 as on 01.04.2020
- Environmental Clearance of projects at Dumad, Vadodara (Gujarat) dated 05.03.2020.
- Capacity Determination compliance report as per Schedule -I, under Regulation 4 (2) of the Petroleum and Natural Gas Regulatory Board (Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines) Regulations, 2008 as on 01.03.2020
- Capacity Determination compliance report as per Schedule -I, under Regulation 4 (2) of the Petroleum and Natural Gas Regulatory Board

We are Listening

- Help
- Pal-Hal-Related Queries

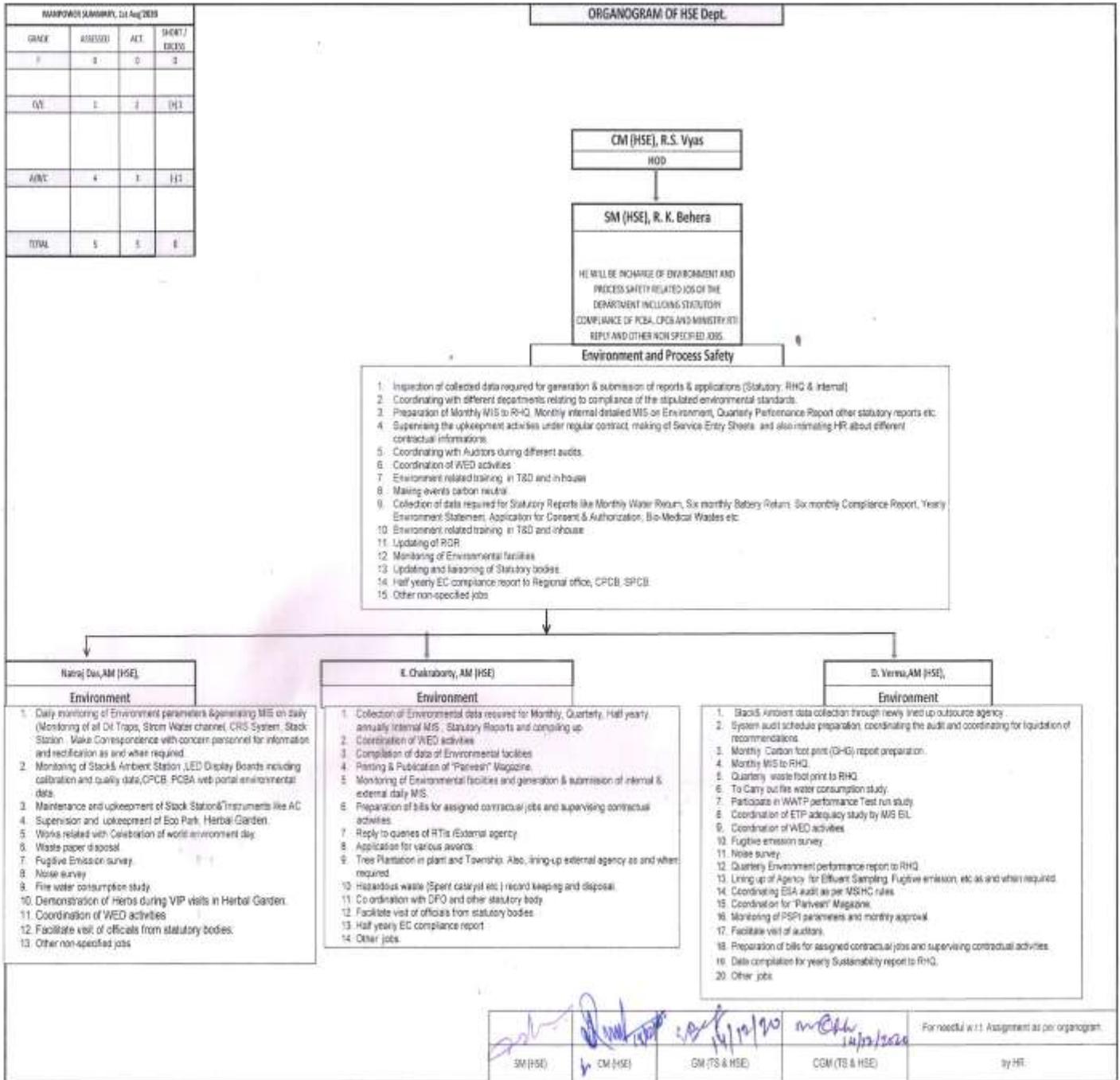
Activate Windows
Go to Settings to activate Windows.

Type here to search

11:27 AM
15-Dec-20

APPENDIX-A11

HSE Organogram of IOCL-BGR



ANNEXURE-A12**Gazette Notification of BGR Quality Control laboratory (QC Lab)
Approval under Environment (Protection) Act 1986**

केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

C-11012/90/1998-Tech/

13209

November 29, 2018

Speed Post

To

Sh H.K. Sarma
Quality Control Manager
Quality Control Laboratory
Indian Oil Corporation Limited
Bangaigaon
P.O. Dhaligaon-783385
Dist. Chirang Assam

Sub: Notification of Government Analysts of Quality Control Laboratory of Indian Oil Corporation Limited Bangaigaon P.O. Dhaligaon-783385 Dist. Chirang Assam, in Govt. of India Gazette-reg.

Ref: Your letter no. Dated 23.04.2018
Our letter no.: C-11012/90/1998 Tech/3266 (Dated 20.07.2016)

Sir,

Apropos above, it is to inform that the proposal of substitution of superannuated/transferred Government Analysts of Quality Control Laboratory of Indian Oil Corporation Limited Bangaigaon P.O. Dhaligaon-783385 Dist. Chirang Assam was approved in the 181st Board Meeting held on June 19, 2018 and afterward notified in the Govt. of India Gazette No. 439 Dated November 20, 2018 vide notification number Lega. 42(3)/87 dated October 3, 2018. The copy of Gazette Notification is enclosed herewith for your reference and record please.

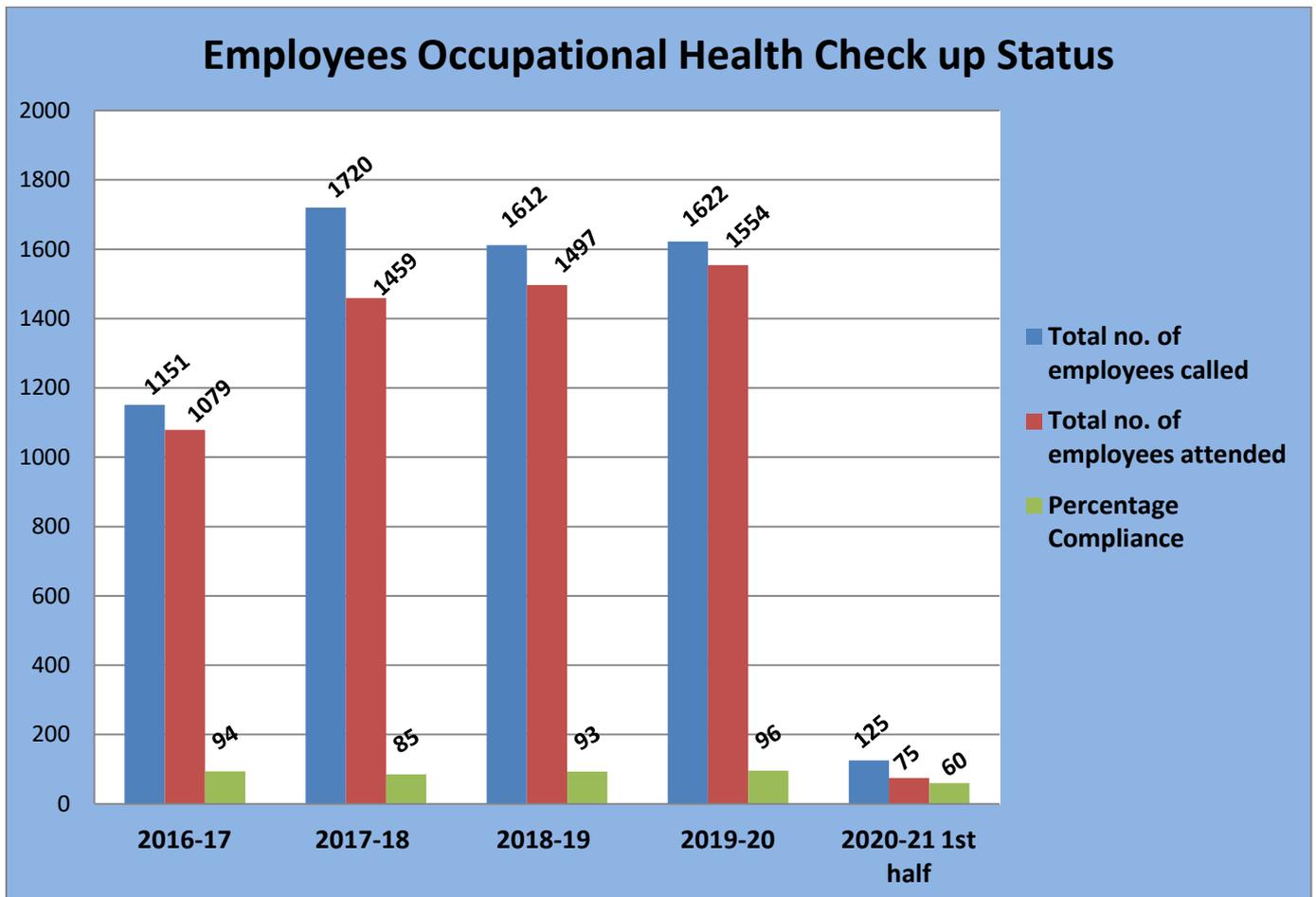
Yours Faithfully

(B.K. Jakhmola)

Scientist-E & Divisional Head
Instrumentation Laboratory

Appendix-A13

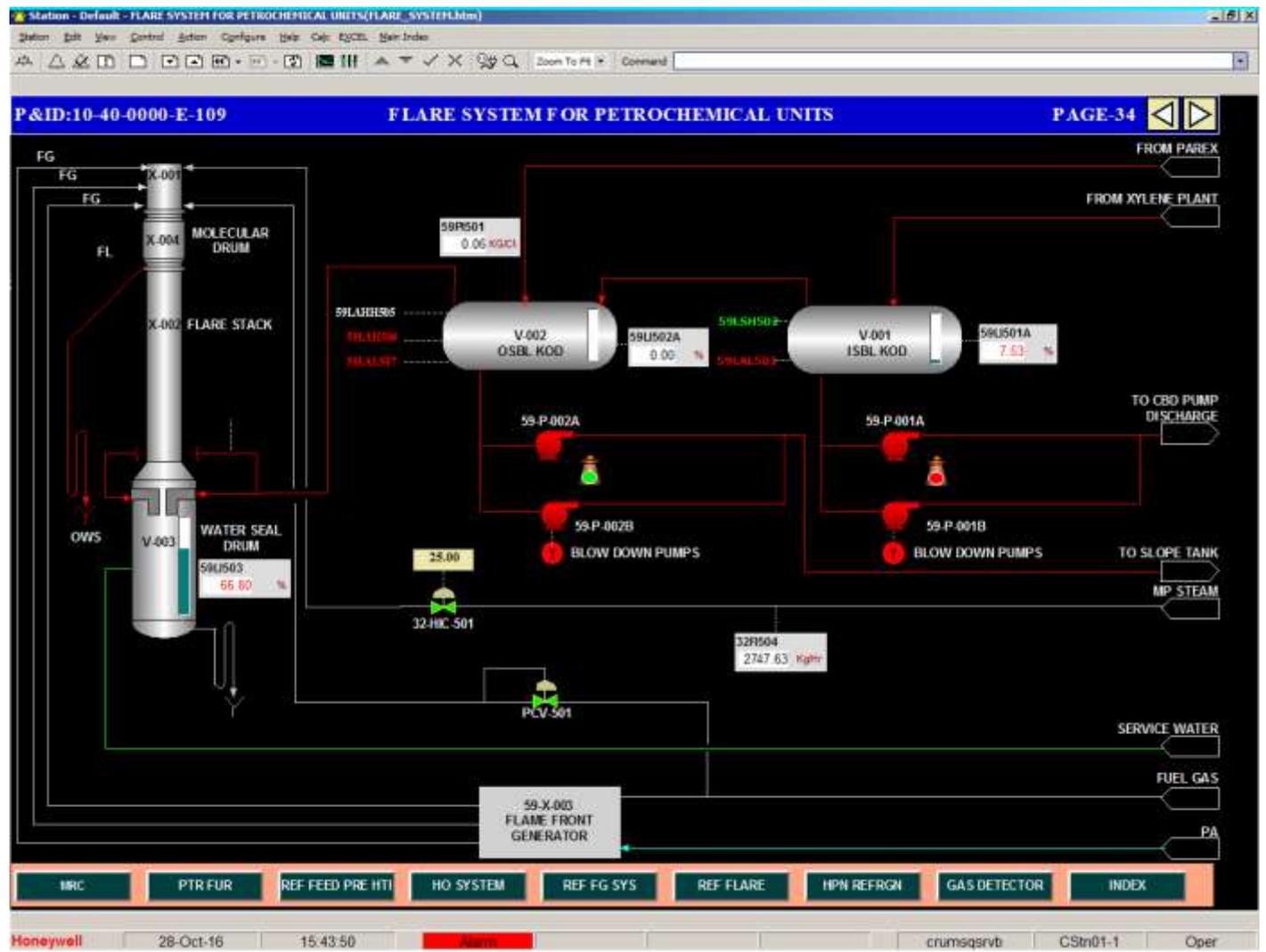
Employees Occupational Health Check up Status



17.0

Appendix-A14

Flare system.



THANKS