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Proposal Details

Proposal No	J-11011/415/2008-IA-II(I)	Category	Industrial Projects - 2		
Proposal Name	Diesel Hydro Treating facilities at Mumbai Refinery, Complex at Mahul, Chembur, Mumbai by M/s HPCL				
Plot / Survey/ Khasra No.		Village(s)		Sub-District(s)	
State	MAHARASHTRA	District	MUMBAI		
MoEF File No	J-11011/415/2008-IA-II(I)	Name of the Entity/ Corporate Office	R S RAO	Entity's PAN	NA
Entity Name as per PAN	NA	Entity details mentioned above is correct ?	Agree		

Covering Letter

Covering Letter	NA
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Compliance Reporting Details

Reporting Year 2023 **Reporting Period** 01 Dec(01 Apr - 30 Sep)
Remark(if any) Diesel Hydro Treating facility (DHT) EC compliance for the period Apr '23 to Sep '23.

Details of Production and Project Area

Date of Commencement of Project/Activity 04-09-2009

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	LPG + Propylene	Tons per Annum (TPA)	542000				492607
2	Naphtha (LAN+SCN)	Tons per Annum (TPA)	252000				391198
3	Treated Hexane	Tons per Annum (TPA)	30000				18143

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
4	Solvent 1425	Tons per Annum (TPA)	8500				3428
5	MS	Tons per Annum (TPA)	1683000				1842329
6	MTO	Tons per Annum (TPA)	48000				31190
7	ATF	Tons per Annum (TPA)	600000				363565
8	SKO	Tons per Annum (TPA)	52000				81688
9	Diesel	Tons per Annum (TPA)	3441000				3858812
10	IFO	Tons per Annum (TPA)	969000				893509
11	Sulphur	Tons per Annum (TPA)	61000				37640
12	Asphalt (VG-10, VG-30)	Tons per Annum (TPA)	780000				592427
13	150 N Gr-I	Tons per Annum (TPA)	70000				90184
14	500 N Gr-I	Tons per Annum (TPA)	100000				110957
15	Spindle Oil Gr-I	Tons per Annum	15000				13794

PRODUCTION CAPACITY

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
		(TPA)					
16	Spindle Oil Gr-II	Tons per Annum (TPA)	32000				68444
17	150 N Gr-II	Tons per Annum (TPA)	76000				93217
18	500 N Gr-II	Tons per Annum (TPA)	92000				68271
19	Bright Stock	Tons per Annum (TPA)	50000				37214
20	IO-100	Tons per Annum (TPA)	15000				21640

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details	Status of Compliance, Remarks/Reason and Supporting Documents	
1	Statutory compliance	M/s HPCL shall comply with the stipulations made in the environmental clearance accorded by the Ministry for the existing plant.	PPs Submission	Complied. This report is submitted as EC conditions compliance report. Complied Attachment: NA

2	Statutory compliance	M/s HPCL shall comply with new standards/ norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R. 186(E) dated 18th March 2008.	PPs Submission	Complied Complied Attachment: NA
3	AIR QUALITY MONITORING AND PRESERVATION	The project authorities shall submit a feasible plan which will be followed to ensure that SO2 emission from the refinery does not exceed the stipulated figure of 12.6 TPD at any time.	PPs Submission	Complied Complied Attachment: NA
4	AIR QUALITY MONITORING AND PRESERVATION	Flue gas desulphurization on FCC shall be installed.	PPs Submission	Flue Gas Scrubber Unit (FGSU) has been installed in both the FCCUs and is in continuous operation. Complied Attachment: NA
5	Corporate Environmental Responsibility	All equipment and construction being carried to and from the refinery should be done in such a manner as not to create traffic congestion.	PPs Submission	Complied during the construction phase. Project is completed and commissioned. Complied Attachment: NA
6	AIR QUALITY MONITORING AND PRESERVATION	The process emissions (SO2, NOx, HC, VOCs and Benzene) from various units should conform to the standards prescribed by the Maharashtra	PPs Submission	There are no open Process vents from where emissions (SO2, NOx, HC, VOCs and Benzene) are emitted. The fugitive emissions from the components are monitored, measured and attended as per the third party LDAR program covering whole of Refinery. Process Emissions from various units conforms to the standards as prescribed.

		<p>Pollution Control Board from time to time. At no time, the emission levels should go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.</p>		<p>Complied Attachment: NA</p>
7	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Ambient air quality monitoring stations, [SPM, SO₂, NO_x, H₂S, Mercaptan, NMHC and Benzene] should be set up in the Refinery complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs. Continuous on-line stack monitoring equipment should be installed for measurement of SO₂, NO_x, CO and CO₂. Low NO_x burners should be installed with online analyzers.</p>	<p>PPs Submission</p>	<p>Presently, 3 nos of AAQMS monitoring stations are in service for monitoring of PM_{2.5}, Sox, NO_x, CO, PM₁₀, Ozone, Benzene, NH₃, H₂S, HC and Mercaptan. This data is also uploaded on MPCB as well as CPCB server. On line Stack monitoring analyzers for SO_x, NO_x, CO & PM are provided for stacks in the refinery. Complied Attachment: NA</p>

8	AIR QUALITY MONITORING AND PRESERVATION	Monitoring of fugitive emissions should be carried out as per the guidelines of CPCB by fugitive emission detectors and reports should be submitted to the Ministry's regional office at Bhopal. For control of fugitive emission all unsaturated hydrocarbon will be routed to the flare system and the flare system should be designed for smoke less burning.	<table border="1"> <tr> <td data-bbox="972 73 1227 309">PPs Submission</td> <td data-bbox="1227 73 2004 309">Leak detection & repair programme for various units of the refinery is in place for monitoring of fugitive emissions. Flare gas recovery compressor is installed for recycling it to Fuel Gas System. Complied Attachment: NA</td> </tr> </table>	PPs Submission	Leak detection & repair programme for various units of the refinery is in place for monitoring of fugitive emissions. Flare gas recovery compressor is installed for recycling it to Fuel Gas System. Complied Attachment: NA
PPs Submission	Leak detection & repair programme for various units of the refinery is in place for monitoring of fugitive emissions. Flare gas recovery compressor is installed for recycling it to Fuel Gas System. Complied Attachment: NA				
9	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage should also be provided at strategic locations. The company should use low sulphur fuel to minimize SO2 emission. Sulphur recovery units should have efficiency of 99.5 %. Leak Detection and Repair programme should be implemented to control HC/VOC emissions. Work zone monitoring should be carried out near the storage tanks besides	<table border="1"> <tr> <td data-bbox="972 691 1227 1067">PPs Submission</td> <td data-bbox="1227 691 2004 1067">Fugitive emission from product storage tanks is controlled by way of providing primary as well as secondary seals. LDAR program is conducted in the refinery as per norms. Work zone monitoring near storage tanks are being conducted for checking VOC. Our both SRUs are coupled up with Tail Gas Treating Unit. Hydrocarbon detectors are placed at strategic locations throughout the Refinery. Low sulphur fuel is optimized by replenishing with Natural gas. Complied Attachment: NA</td> </tr> </table>	PPs Submission	Fugitive emission from product storage tanks is controlled by way of providing primary as well as secondary seals. LDAR program is conducted in the refinery as per norms. Work zone monitoring near storage tanks are being conducted for checking VOC. Our both SRUs are coupled up with Tail Gas Treating Unit. Hydrocarbon detectors are placed at strategic locations throughout the Refinery. Low sulphur fuel is optimized by replenishing with Natural gas. Complied Attachment: NA
PPs Submission	Fugitive emission from product storage tanks is controlled by way of providing primary as well as secondary seals. LDAR program is conducted in the refinery as per norms. Work zone monitoring near storage tanks are being conducted for checking VOC. Our both SRUs are coupled up with Tail Gas Treating Unit. Hydrocarbon detectors are placed at strategic locations throughout the Refinery. Low sulphur fuel is optimized by replenishing with Natural gas. Complied Attachment: NA				

		monitoring of HCs/VOCs in the work zone.		
10	WATER QUALITY MONITORING AND PRESERVATION	The waste water should be treated in the waste water treatment plant and the treated effluent should meet the prescribed standards. Efforts should be made to recycle the treated effluent to achieve zero discharge.	PPs Submission	The effluent from all the process units is being treated in the Refinery ETP. Approx. 70 % treated effluent is being recycled to DM plant as feed and rest is recycled back to the fire water make up system. Complied Attachment: NA
11	WASTE MANAGEMENT	The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 1989/ 2003/ 2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/ storage/ disposal of hazardous wastes.	PPs Submission	Provisions under Hazardous Waste Management Rules are being complied. HPCL-Mumbai refinery is a member of CHWTSDF located at Taloja and hazardous waste is being regularly disposed off to this facility and to SPCB authorized recyclers as per CTO. Complied Attachment: NA
12	Statutory compliance	The company should strictly follow all the recommendation mentioned in the charter on Corporate Responsibility for Environmental Protection	PPs Submission	Charter of CREP is being complied. Complied Attachment: NA

		(CREP) for the oil refineries.		
13	Risk Mitigation and Disaster Management	The Company should 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 should be installed to minimize gaseous emissions during flaring.	PPs Submission	Measures for preventing fire hazards, containing oil spills and soil remediation programs are in place. Flare stack with knockout drums is operational. Complied Attachment: NA
14	Risk Mitigation and Disaster Management	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 should be in place.	PPs Submission	OISD guidelines on distance criteria are being adhered. Complied Attachment: NA
15	Human Health Environment	Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act.	PPs Submission	Complied. Complied Attachment: NA
16	GREENBELT	Greenbelt should be developed to mitigate the effect of fugitive emission all around the plant in a minimum 25% plant area	PPs Submission	Complied. Complied Attachment: NA

		in consultation with DFO as per CPCB guidelines.		
17	WATER QUALITY MONITORING AND PRESERVATION	The Company should undertake measures for rain water harvesting to recharge the ground water and minimize fresh water consumption.	PPs Submission	Surface drain rainwater harvesting reservoir has been constructed including ground water recharging through roof top rainwater harvesting. Complied Attachment: NA
18	Human Health Environment	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	PPs Submission	Housing of construction workers is in the scope of Contractors. Project is completed and commissioned. Complied Attachment: NA
19	Statutory compliance	The proponent shall upload the status of compliance of the stipulated EC conditions, including monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria	PPs Submission	Compliance status of EC conditions are uploaded on the company website. All the Criteria Pollutant data is displayed for general public viewing on the LED screen, real-time basis at the Main Gate of the Company. Complied Attachment: NA

		<p>pollutant namely, SPM, RSPM, SO₂, NO_x (Ambient levels as well as stack emissions) VOC and HC, indicated for the project shall be monitored and displayed at the convenient location near the main gate of the Company in the public domain.</p>	
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General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks/Reason and Supporting Documents	
1	Statutory compliance	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.	PPs Submission	All the stipulations as made by SPCB is being complied and adhered to. Complied Attachment: NA
2	Statutory compliance	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.	PPs Submission	Project is executed as per the granted EC. And unit is being operated as per the valid CTO. Expansion of GFEC is granted as per EC for MREP-I. Complied Attachment: NA

3	AIR QUALITY MONITORING AND PRESERVATION	At no time, the emissions shall go beyond the prescribed standards. In the event of failure of any pollution control system, the respective facilities 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.	PPs Submission	Complied. Complied Attachment: NA
4	WATER QUALITY MONITORING AND PRESERVATION	Waste water 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.	PPs Submission	Wastewater is collected and treated in Effluent Treatment plant and conforms to the standards prescribed under EP act and Rules. Complied Attachment: NA
5	Noise Monitoring & Prevention	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).	PPs Submission	Complied. Complied Attachment: NA
6	MISCELLANEOUS	The project authorities must strictly comply with the provisions made in	PPs Submission	Complied. Complied

		<p>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.</p>		Attachment: NA
7	MISCELLANEOUS	<p>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.</p>	PPs Submission	<p>Complied. Complied Attachment: NA</p>
8	WATER QUALITY MONITORING AND PRESERVATION	<p>The company shall develop rain water harvesting structures to harvest the run-off water for recharge of ground water.</p>	PPs Submission	<p>Rainwater harvesting reservoir for usage of rainwater has been constructed having capacity of 50000 KL. Ground water recharging is also undertaken and completed through roof top rainwater harvesting at various locations inside the refinery premises. Complied Attachment: NA</p>

9	Statutory compliance	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.	PPs Submission	Complied. Report is uploaded on Company website. Complied Attachment: NA
10	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both on hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	PPs Submission	Complied. Complied Attachment: NA
11	Statutory compliance	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/representations if any, were received while processing the proposal. The clearance letter shall also put up on the website of the Company by the proponent.	PPs Submission	Complied. Complied Attachment: NA
12	Corporate Environmental	The Project Proponent should inform the public that the	PPs Submission	Complied. Complied

	Responsibility	<p>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 and Forests at http://www.envfor.nic.in. 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.</p>	Attachment: NA			
13	Statutory compliance	<p>The environmental statement 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 EC conditions and shall also be sent to the respective regional Office of the MoEF by e-mail..</p>	<table border="1"> <tr> <td data-bbox="1025 868 1267 1050">PPs Submission</td> <td data-bbox="1267 868 2004 1050"> Environment Statement in Form-V is submitted online as mandated. Complied Attachment: NA </td> </tr> </table>		PPs Submission	Environment Statement in Form-V is submitted online as mandated. Complied Attachment: NA
PPs Submission	Environment Statement in Form-V is submitted online as mandated. Complied Attachment: NA					

14	Statutory compliance	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	PPs Submission	Approval: 05-03-2009 Date of Commissioning: October 2013 Financial Closure- December 2014 Complied Attachment: NA
15	WATER QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Environment Management Cell is fully functional in the refinery. In house lab for various Environmental analysis is in operation. Complied Attachment: NA

Document Upload

Last Site Visit Report (if available)

[Click to View](#)

Last Site Visit Report Date (if available)

19-08-2019

Additional Attachment (if any)

NA

Additional Remarks (if any)

Diesel Hydro Treating facility (DHT) EC compliance for the period Apr '23 to Sep '23.

- I 'R S RAO' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

Cover Letter From IRO

Cover Letter From NA
IRO

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