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#### Proposal Details

<b>Proposal No</b>	IA/MH/IND2/26662/2014	<b>Category</b>	Industrial Projects - 2		
<b>Proposal Name</b>	Proposed expansion of Mumbai Refinery from 7.5 MMTPA to 9.5 MMTPA at BD Patil Marg, Mahul, Mumbai, Maharashtra by M/s HPCL.				
<b>Plot / Survey/ Khasra No.</b>		<b>Village(s)</b>		<b>Sub-District(s)</b>	
<b>State</b>	MAHARASHTRA	<b>District</b>	MUMBAI?SUBURBAN		
<b>MoEF File No</b>	J-11011/413/2014-IA.II (1)	<b>Name of the Entity/ Corporate Office</b>	R S RAO	<b>Entity's PAN</b>	NA
<b>Entity Name as per PAN</b>	NA	<b>Entity details mentioned above is correct ?</b>	Agree		

#### Covering Letter

<b>Covering Letter</b>	NA
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## Compliance Reporting Details

**Reporting Year** 2023 **Reporting Period** 01 Dec(01 Apr - 30 Sep)  
**Remark(if any)** Mumbai Refinery Expansion Project (MREP) - EC conditions compliance for Apr '23 to Sep'23.

## Details of Production and Project Area

**Date of Commencement of Project/Activity** 31-01-2017

	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	MS	Tons per Annum (TPA)	1683000				1842329
2	MTO	Tons per Annum (TPA)	48000				31190

**PRODUCTION CAPACITY**

<b>Sr.No.</b>	<b>Name of the Product</b>	<b>Units</b>	<b>As per EC Granted</b>	<b>As per CTO Granted</b>	<b>CTO ID</b>	<b>Valid Up To</b>	<b>Production during last financial year</b>
3	ATF	Tons per Annum (TPA)	600000				363565
4	Sulphur	Tons per Annum (TPA)	61000				37640
5	150 N Gr-II	Tons per Annum (TPA)	76000				93217
6	500 N Gr-II	Tons per Annum (TPA)	92000				68271
7	Bright Stock	Tons per Annum (TPA)	50000				37214
8	LPG + Propylene	Tons per Annum (TPA)	542000				492607
9	Naphtha (LAN+SCN)	Tons per Annum (TPA)	252300				391198
10	Treated Hexane	Tons per Annum (TPA)	30000				18143
11	Solvent 1425	Tons per Annum (TPA)	8500				3428
12	SKO	Tons per Annum (TPA)	52000				81688
13	Diesel	Tons per Annum (TPA)	3441000				3858812
14	IFO	Tons per Annum	969000				893509

**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)					
15	Asphalt (VG-10, VG-30)	Tons per Annum (TPA)	780000				592427
16	150 N Gr-I	Tons per Annum (TPA)	70000				90184
17	500 N Gr-I	Tons per Annum (TPA)	100000				110957
18	Spindle Oil Gr-I	Tons per Annum (TPA)	15000				13794
19	Spindle Oil Gr-II	Tons per Annum (TPA)	32000				68444
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 standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R.	PPs Submission	Complied. Complied Attachment: NA

		186(E) dated 18th March, 2008.		
2	AIR QUALITY MONITORING AND PRESERVATION	Continuous on-line stack monitoring for SO <sub>2</sub> , NO <sub>x</sub> and CO of all the stacks shall be carried out.	PPs Submission	On-line stack monitoring facilities are provided to all new stacks under this project also. The existing stacks already have online monitoring facility for these parameters. Complied Attachment: NA
3	AIR QUALITY MONITORING AND PRESERVATION	The process emissions [SO <sub>2</sub> , NO <sub>x</sub> , HC {Methane and Nonmethane}], VOCs and Benzene from various units shall conform to the standards prescribed under the environment (Protection) Act. 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 of the pollution control device has been achieved.	PPs Submission	Complied. Complied Attachment: NA

4	AIR QUALITY MONITORING AND PRESERVATION	<p>Leak Detection and Repair programme shall be prepared and implemented to control HC/VOC emissions. Focus shall be given to prevent fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to. Fugitive emissions of HC from product storage tank yards etc. must be regularly monitored. Sensors for detecting HC leakage shall be provided at strategic locations.</p>	<table border="1"> <tr> <td data-bbox="976 73 1227 347">PPs Submission</td> <td data-bbox="1227 73 2004 347"> <p>LDAR programme is in place. Fugitive emissions are monitored regularly for tank, pumps, equip, etc. PM schedule is in place and adhered to. HC detectors have been installed at site for leak detection.</p> <p>Complied</p> <p>Attachment: NA</p> </td> </tr> </table>	PPs Submission	<p>LDAR programme is in place. Fugitive emissions are monitored regularly for tank, pumps, equip, etc. PM schedule is in place and adhered to. HC detectors have been installed at site for leak detection.</p> <p>Complied</p> <p>Attachment: NA</p>
PPs Submission	<p>LDAR programme is in place. Fugitive emissions are monitored regularly for tank, pumps, equip, etc. PM schedule is in place and adhered to. HC detectors have been installed at site for leak detection.</p> <p>Complied</p> <p>Attachment: NA</p>				
5	AIR QUALITY MONITORING AND PRESERVATION	<p>SO2 emission after expansion from the plant shall not exceed 525 Kg/hr and further efforts shall be made for reduction of SO2 load through use of low Sulphur fuel. Sulphur recovery units shall be installed for control of H2S emissions. The overall Sulphur recovery efficiency of Sulphur</p>	<table border="1"> <tr> <td data-bbox="976 1018 1227 1212">PPs Submission</td> <td data-bbox="1227 1018 2004 1212"> <p>Low Sulphur fuel has been considered for firing in heaters and boilers. SO2 emission from the plant does not exceed 525 Kg/hr.</p> <p>Complied</p> <p>Attachment: NA</p> </td> </tr> </table>	PPs Submission	<p>Low Sulphur fuel has been considered for firing in heaters and boilers. SO2 emission from the plant does not exceed 525 Kg/hr.</p> <p>Complied</p> <p>Attachment: NA</p>
PPs Submission	<p>Low Sulphur fuel has been considered for firing in heaters and boilers. SO2 emission from the plant does not exceed 525 Kg/hr.</p> <p>Complied</p> <p>Attachment: NA</p>				

		recovery unit with tail gas treating shall not be less than 99.9%.		
6	AIR QUALITY MONITORING AND PRESERVATION	As proposed, record of Sulphur balance shall be maintained at the refinery as part of the environmental data on regular basis. The basic component of Sulphur balance include Sulphur input through feed (Sulphur content in crude oil), Sulphur output from Refinery through products, byproduct (elemental Sulphur), atmospheric emissions etc.	PPs Submission	Sulphur balance is carried out and SO2 emissions were restricted as per compliance limits. Complied Attachment: NA
7	AIR QUALITY MONITORING AND PRESERVATION	Flare gas recovery system shall be installed.	PPs Submission	Flare gas recovery system is already in operation in the existing Refinery. Complied Attachment: NA
8	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring stations, [ PM10, PM25, SO2, NOx, H2S, mercaptan, non-methane-HC and Benzene] shall be set up in the complex in consultation with Maharashtra State Pollution Board, based on occurrence of maximum ground level	PPs Submission	Refinery has 3 operational ambient air quality monitoring stations within the premises. Complied Attachment: NA

		<p>concentration and down-wind direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.</p>			
9	WATER QUALITY MONITORING AND PRESERVATION	<p>Total freshwater requirement from BMC after expansion of proposed project shall not exceed 538 m3/hr and prior permission shall be obtained from the competent authority.</p>	<table border="1"> <tr> <td>PPs Submission</td> <td> <p>In reference to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC total water consumption post revamp will be 594 m3/hr. Complied Attachment: <a href="#">Click to View</a></p> </td> </tr> </table>	PPs Submission	<p>In reference to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC total water consumption post revamp will be 594 m3/hr. Complied Attachment: <a href="#">Click to View</a></p>
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10	WATER QUALITY MONITORING AND PRESERVATION	<p>As proposed, Industrial effluent generation shall not exceed 178 m3/hr after proposed expansion and treated in the integrated effluent treatment plant. Treated effluent shall be recycled/reused within the factory premises. Domestic sewage shall be treated in sewage treatment plant (STP).</p>	<table border="1"> <tr> <td>PPs Submission</td> <td> <p>In reference to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC. The total water effluent generation post revamp will be 250 m3/hr. Complied Attachment: <a href="#">Click to View</a></p> </td> </tr> </table>	PPs Submission	<p>In reference to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC. The total water effluent generation post revamp will be 250 m3/hr. Complied Attachment: <a href="#">Click to View</a></p>
PPs Submission	<p>In reference to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC. The total water effluent generation post revamp will be 250 m3/hr. Complied Attachment: <a href="#">Click to View</a></p>				
11	WATER QUALITY MONITORING AND PRESERVATION	<p>Automatic mechanical oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.</p>	<table border="1"> <tr> <td>PPs Submission</td> <td> <p>Automatic mechanical oil catchers are already in place in the existing Refinery. Complied Attachment: NA</p> </td> </tr> </table>	PPs Submission	<p>Automatic mechanical oil catchers are already in place in the existing Refinery. Complied Attachment: NA</p>
PPs Submission	<p>Automatic mechanical oil catchers are already in place in the existing Refinery. Complied Attachment: NA</p>				



12	Corporate Environmental Responsibility	At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESR) based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore.	PPs Submission	Though ESR activities are being taken up, HPCL had also requested for reconsideration of ESR amount. Various ESR activities through Projects have been undertaken which are detailed in attachment. Being Complied Attachment: <a href="#">Click to View</a>
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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 State Pollution Control Board (SPCB), state Government and any other statutory authority.	PPs Submission	Complied. 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 to assess the adequacy of conditions imposed and to add additional	PPs Submission	Noted. Complied Attachment: NA

		environmental protection measures required, if any.		
3	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	PPs Submission	Refinery has three operational ambient air quality monitoring stations within the premises. Complied Attachment: NA
4	AIR QUALITY MONITORING AND PRESERVATION	The national Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.	PPs Submission	Complied. Complied Attachment: NA
5	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	PPs Submission	Complied. Complied Attachment: NA

6	WATER QUALITY MONITORING AND PRESERVATION	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	PPs Submission	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. Complied Attachment: NA
7	Risk Mitigation and Disaster Management	Training shall be imparted to all employees of safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	PPs Submission	Required trainings are carried out. Complied Attachment: NA
8	Statutory compliance	The company shall also comply with Environmental Protection Measures and safeguard proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing related to the project shall be implemented.	PPs Submission	Complied. Complied Attachment: NA
9	Corporate Environmental Responsibility	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	PPs Submission	Project is situated within the existing Refinery premises. Various CSR activities are already in place for the surrounding areas. Complied Attachment: NA

10	Corporate Environmental Responsibility	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	PPs Submission	Eco-developmental measures including community welfare measures for the overall improvement of the environment in the near vicinity of the Project is being undertaken under CSR. Green Belt in MR-II. Complied Attachment: NA
11	Statutory compliance	A separate environment management cell with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	PPs Submission	A separate environment management cell and a laboratory to carry out the environmental management and monitoring functions is operational. Complied Attachment: NA
12	Corporate Environmental Responsibility	The company shall earmark sufficient funds towards capital cost and recurring cost per annum 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 earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	PPs Submission	Noted. Complied Attachment: NA
13	Statutory compliance	A copy of clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body	PPs Submission	Complied. Complied Attachment: <a href="#">Click to View</a>

		and the Local NGO, if any, from whom suggestions/representations if any, were received while processing the proposal.	PPs Submission	Complied. Complied Attachment: NA
14	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	PPs Submission	Six monthly compliance report of the EC conditions is submitted regularly and also posted on HPCL website. Complied Attachment: NA
15	Statutory compliance	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 environmental clearance conditions and shall also be sent to the respective Regional Office of MoEF by e-mail.	PPs Submission	Complied. Form-V of FY 2022-23 is attached herewith. Complied Attachment: <a href="#">Click to View</a>

16	MISCELLANEOUS	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/ Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a>. This shall 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 shall be forwarded to the concerned Regional Office of the Ministry.</p>	PPs Submission	<p>Advertisement regarding grant of EC was published on February 28, 2017 in Times of India in English. Published on March 1, 2017 in Navbharat Times in Hindi and Maharashtra Times in Marathi. Complied Attachment: <a href="#">Click to View</a></p>
17	MISCELLANEOUS	<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 start of the project.</p>	PPs Submission	<p>Project Start date: November 2017. CTE from MPCB: May 25, 2018. Revised CTE for change in configuration from MPCB: March 26, 2019. CTO by MPCB: Sep 20, 2021. Reconciliation for financial closure in progress. Complied Attachment: NA</p>

### Document Upload

**Last Site Visit Report (if available)**

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**Last Site Visit Report Date (if available)**

19-08-2019

**Additional Attachment (if any)**

NA

**Additional Remarks  
(if any)**

Mumbai Refinery Expansion Project (MREP) - 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  
IRO**            NA

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