



हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड

(भारत सरकार उपक्रम) पंजीकृत कार्यालय : 17, जमशेदजी टाटा रोड, मुंबई - 400 020.

HINDUSTAN PETROLEUM CORPORATION LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE) REGISTERED OFFICE : 17, JAMSHEDJI TATA ROAD, MUMBAI - 400 020.

मुंबई रिफाइनरी, पो. ऑ. बॉक्स नं. 18820, बी. डी. पाटील मार्ग, माहुल, मुंबई - 400 074.
MUMBAI REFINERY, P.O. BOX NO. 18820, B. D. PATIL MARG, MAHUL, MUMBAI - 400 074.
टेलीफोन : TELEPHONE : 2507 6000, फॅक्स : FAX : 2554 2008, तार - हिनरिफ, TELEGRAM - HINREF
CIN : L23201MH1952GOI008858

January 03, 2020

To,

The Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines,
Nagpur-440001

Subject: Submission of six monthly compliance for Expansion of Mumbai refinery from 7.5 MMTPA to 9.5 MMTPA at B.D. Patil Marg, Mahul, Mumbai, Maharashtra by M/s HPCL – Environmental Clearance F. No. J-11011/413/2014-IA-II(I) dated January 31, 2017.

Dear Sir,

Please find attached herewith, six monthly compliance report of subject Environmental Clearance for the period April 1, 2019 to September 30, 2019 for Mumbai Refinery Expansion Project (MREP), PRU & revamp of CPP.

With Warm Regards,

Kamalakar R. Vikhar
Chief General Manager – Projects
Mumbai Refinery – HPCL

Compliance of Environmental Clearance conditions for the period April 1, 2019 to September 30, 2019

Project: Expansion of Mumbai Refinery from 7.5 MMTPA to 9.5 MMTPA at B.D. Patil Marg, Mahul, Mumbai, Maharashtra by M/s HPCL

Reference No.: F. No. J-11011/413/2014-IA-II(I) dated January 31, 2017 by Ministry of Environment, Forests and Climate Change, GOI

A. Specific Conditions

S. No.	Particulars	Compliance Status
i.	M/s HPCL shall comply with standards/norms for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986 vide G.S.R. 186 (E) dated 18 th March, 2008.	Being Complied
ii.	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out.	On-line stack monitoring facilities shall be provided to all new stacks under this project.
iii.	The process emissions [SO ₂ , NO _x , HC {Methane and Non-methane}], 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.	Being Complied
iv.	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 leak shall be provided at strategic locations.	LDAR Programs are already implemented in existing refinery and same shall be extended to New facilities under this project. HC detectors have been considered during detail engineering and lay out finalization at strategic locations.
v.	SO ₂ emission after expansion from the plant shall not exceed 525 Kg/hr and further efforts shall be made for reduction of SO ₂ load through use of low Sulphur fuel. Sulphur recovery units shall be installed for control of H ₂ S emissions. The overall Sulphur recovery efficiency of Sulphur recovery unit with tail gas treating shall not be less than 99.9%.	Low Sulphur fuel has been considered for firing in heaters and boilers. Sulphur recovery units along with tail gas treating units are already in place.

vi.	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.	Sulphur balance record in line with existing practice and as stipulated in condition shall be maintained.
vii.	Flare gas recovery system shall be installed.	Flare gas recovery system is already in place in the existing refinery.
viii.	Ambient air quality monitoring stations, [PM ₁₀ , PM ₂₅ , SO ₂ , NO _x , H ₂ S, 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 concentration and down-wing direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Refinery already has 3 ambient air quality monitoring stations within the premises.
ix.	The freshwater requirement from BMC after expansion of proposed project shall not exceed 538 m ³ /hr and prior permission shall be obtained from the competent authority.	Reference is made to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC (attached herewith). Under clause/ notification 7 (ii)(b) of MoEFCC notification S.O. 3518(E) dated November 23, 2016, HPCL has intimated MoEFCC regarding change in water consumption and effluent generation from the expansion project. The total water consumption post revamp will be 594 m ³ /hr. This increase in water consumption is due to incorporation of detail engineering numbers.
x.	As proposed, Industrial effluent generation shall not exceed 178 m ³ /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).	Reference is made to the HPCL's letter no. MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC (attached herewith). Under clause/ notification 7 (ii)(b) of MoEFCC notification S.O. 3518(E) dated November 23, 2016, HPCL has intimated MoEFCC regarding change in water consumption and effluent generation from the expansion project. The total water effluent generation post revamp

		will be 250 m ³ /hr. This increase in effluent generation is due to incorporation of detail engineering numbers and HPCL's water conservation initiative. Existing ETP is adequate for the same.
xi.	Automatic mechanical oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Automatic mechanical Oil catchers are already in place in the existing Refinery.
xii.	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 (Nagpur).	Though ESR activities are being taken up, HPCL had also requested for reconsideration of ESR amount. Various ESR activities through Projects have been undertaken such as deployment of traffic wardens in the vicinity of Refinery for traffic management, training of under-privileged youth in the vicinity for skill development program in partnership with TATA STRIVE to create employment opportunities.
B. General Conditions		
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state Government and any other statutory authority.	Will be complied.
ii.	No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and Forests. In case of deviations or alternations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Will be complied.
iii.	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.	Refinery already has 3 ambient air quality monitoring stations within the premises.
iv.	The national Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be followed.	Being Complied.

v.	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Being Complied.
vi.	The company shall harvest rain water from the rooftops 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.	Some of the buildings in the Refinery are being converted for rain water harvesting.
vii.	Training shall be imparted to all employees of safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations of all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Being Complied
viii.	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.	Will be Complied.
ix.	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.	Project is coming up within the existing Refinery premises. Various CSR activities are already in place for the surrounding areas.
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Project is coming up within the existing Refinery premises. Various measures are already in place for the overall improvement of the environment.
xi.	A separate environment management cell with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Existing refinery already has a dedicated environment management cell and a laboratory to carry out the environmental management and monitoring functions.
xii.	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	Being Complied

	herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
xiii.	A copy of clearance letter shall be sent by the project 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.	Complied with.
xiv.	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 MPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Being complied.
xv.	The environmental statement for each financial year ending 31 st 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 MoEF by e-mail.	Being Complied
xvi.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in . 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 should be forwarded to the concerned Regional office of this Ministry.	Complied with Advertisement regarding grant of Environmental Clearance 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.
xvii.	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.	Project approved vide HPCL board meeting dated September 29, 2015. Project start date is November, 2017. Consent to Establish received from Maharashtra Pollution Control Board on May 25, 2018. Intimation letter for change in project configuration submitted to MoEFCC, New Delhi on July 20,

		<p>2018 as there is no change in pollution load.</p> <p>Revised CTE for change in configuration from MPCB received on March 26, 2019.</p> <p>Applied to MPCB for Consent To Operate (CTO).</p> <p>Regular project progress report is being sent to Ministry Monitoring Cell.</p>
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