

EC Conditions Six Monthly Compliance Report

(by Project Proponent)



Proposal No : IA/MH/IND2/26662/2014

1. Name of the Entity / Corporate Office :

2. Proponent Details :

Proponent Name :	Sunil	Designation :	Chief General Manager
Telephone No :	22-25077028	Mobile No :	+91 9920840158
Fax No :	22-	Email Address :	sunilyadav@hpcl.in
Website :	www.hindustanpetroleum.com	Pin Code :	400074
State :	Maharashtra	District :	Mumbai (Suburban)
Village/Town :			



3. Compliance Letter/Report (Proponent):


4. Summary Status of Compliance :


Total Condition :	58		
Complied :	58	Being Complied :	0
Not Complied :	0	Partially Complied :	0


Agreed to Comply :	0	
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5. Details of Production and Project Area :6. Specific Conditions (Proponent) :


S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	The 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.	Complied	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.		
2	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).	Complied	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.		
3	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 recovery unit with tail gas treating shall not be less than 99.9%.	Complied	Low Sulphur fuel has been considered for firing in heaters and boilers. SO2 emission from the plant does not exceed 525 Kg/hr.	N/A	
4	Automatic mechanical oil catchers/oil traps shall be provided at all possible	Complied	Automatic mechanical oil catchers are already in	N/A	

	locations in rain/storm water drainage system inside the factory premises.		place in the existing Refinery.		
5	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 le	Complied	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.	N/A	
6	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out.	Complied	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.	N/A	
7	Flare gas recovery system shall be installed.	Complied	Flare gas recovery system is already in operation in the existing Refinery.	N/A	
8	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).	Complied	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.		
9	As proposed, record of Sulphur balance shall be maintained at the refinery as part	Complied	Sulphur balance is carried out and SO ₂	N/A	


	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.		emissions were restricted as per compliance limits.		
10	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 concentration and down-wing direction of wind. The monitoring network must be decided based on modeling exercise to represent short term GLCs.	Complied	Refinery has 3 operational ambient air quality monitoring stations within the premises.	N/A	
11	The process emissions [SO2, NOx, HC {Methane and Non-methane}}, VOCs and Benzene form 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.	Complied	Complied.	N/A	
12	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 18th March, 2008.	Complied	Complied.	N/A	
13	The freshwater requirement from BMC after expansion of proposed project shall	Complied	In reference to the HPCL's letter no.		

	not exceed 538 m3/hr and prior permission shall be obtained from the competent authority.		MREP/MoEFCC/02 dated October 24, 2019 submitted to the Member Secretary MoEFCC total water consumption post revamp will be 594 m3/hr.		
14	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).	Complied	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.		
15	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 recovery unit with tail gas treating shall not be less than 99.9%.	Complied	Low Sulphur fuel has been considered for firing in heaters and boilers. SO2 emission from the plant does not exceed 525Kg/hr.	N/A	
16	Automatic mechanical oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Complied	Automatic mechanical oil catchers are already in place in the existing Refinery.	N/A	
17	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	Complied	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.	N/A	


	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 le				
18	Continuous on-line stack monitoring for SO ₂ , NO _x and CO of all the stacks shall be carried out.	Complied	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.	N/A	
19	Flare gas recovery system shall be installed.	Complied	Flare gas recovery system is already in operation in the existing Refinery.	N/A	
20	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.	Complied	Sulphur balance is carried out and SO ₂ emissions were restricted as per compliance limits.	N/A	
21	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.	Complied	Refinery has 3 operational ambient air quality monitoring stations within the premises.	N/A	
22	The process emissions [SO ₂ , NO _x , HC {Methane and Non-methane}], VOCs and	Complied	Complied.	N/A	


	Benzene form 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.				
23	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 18th March, 2008.	Complied	Complied.	N/A	
24	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).	Complied	Though ESR activities are being taken up, HPCL had also requested for reconsideration of ESR amount. Various ESR activities through Projects have been under taken which are detailed in attachment.		


7. General Conditions (Proponent) :

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	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	Complied	Complied. Form-V of FY-2021-22 is attached herewith.		


	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.				
2	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).	Complied	Complied.	N/A	
3	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.	Complied	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.Reconsilation for financial closure in prog.	N/A	
4	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.	Complied	Project is situated within the existing Refinery premises. Various CSR activities are already in place for the surrounding areas.	N/A	
5	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	Complied	Six monthly compliance report of the EC conditions is submitted regularly and also posted on HPCL website.	N/A	


	status report shall be posted on the website of the company.				
6	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	Complied.		
7	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.	Complied	Complied.	N/A	
8	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.	Complied	Required trainings are carried out.	N/A	
9	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.	Complied	Noted.	N/A	
10	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board(SPCB), state Government and any other statutory authority.	Complied	Complied.	N/A	

11	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.	Complied	Complied.	N/A	
12	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 o	Complied	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.		
13	A separate environment management cell with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied	A separate environment management cell and a laboratory to carry out the environmental management and monitoring functions is operational.	N/A	
14	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.	Complied	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.	N/A	

15	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.	Complied	Refinery has three operational ambient air quality monitoring stations within the premises.	N/A	
16	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.	Complied	Noted.	N/A	
17	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied	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.	N/A	
18	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	Complied	Complied. Form-V of FY-2021-22 is attached herewith.		

	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.				
19	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).	Complied	Complied.	N/A	
20	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.	Complied	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 prog.	N/A	
21	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.	Complied	Project is situated within the existing Refinery premises. Various CSR activities are already in place for the surrounding areas.	N/A	
22	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	Complied	Six monthly compliance report of the EC conditions is submitted regularly and also posted on HPCL website.	N/A	

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23	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	Complied.		
24	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.	Complied	Complied.	N/A	
25	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.	Complied	Required trainings are carried out.	N/A	
26	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.	Complied	Complied.	N/A	
27	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), state Government and any other statutory authority.	Complied	Complied.	N/A	

28	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.	Complied	Complied.	N/A	
29	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 o	Complied	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.		
30	A separate environment management cell with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied	A separate environment management cell and a laboratory to carry out the environmental management and monitoring functions is operational.	N/A	
31	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.	Complied	Rain water 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.	N/A	

32	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.	Complied	Refinery has three operational ambient air quality monitoring stations within the premises.	N/A	
33	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.	Complied	Noted.	N/A	
34	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied	Eco-developmental measures including community welfare measures for the overall improvement of the environment in the near vicinity of the Project is being taken under CSR. Green Belt in MR-II.	N/A	

****Note : N/A - Not Available**

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