

# EC Conditions Six Monthly Compliance Report

(by Project Proponent)



**Proposal No :** IA/KA/IND2/176690/2020

## 1. Name of the Entity / Corporate Office :

File No. :	J-11011/215/2010-IA II(I)	Proposal Name :	MRPL Modernization Project 2020
Date Of EC. :	19 Jan 2021	EC Letter :	
Name of the Entity / Corporate Office :	MANGALORE REFINERY AND PETROCHEMICALS LTD	Email Address :	mrplmlr@mrpl.co.in
Address :	KUTHETHOOR P.O, VIA KATIPALLA,	Mobile No :	9449640089

## 2. Proponent Details :

Proponent Name :	SUDARSAN	Designation :	Chief General Manager (HSE)
Telephone No. :	824-2882041	Mobile No. :	+91 9449640089
Fax No. :	824-08242270013	Email Address :	sudarshanms@mrpl.co.in
Website :	mrpl.co.in	Pin Code :	575030
State :	Karnataka	District :	Dakshina Kannada
Village/Town :			

## 3. Compliance Letter/Report (Proponent):

Compliance Period :	2022 / 01 Dec (01 April - 30 Sep)	Compliance Submission Date :	19 Jan 2023 15:36:52:567
Remarks :			
Site Visit Report :		Site Visit Date :	18 Sep 2022
ATR Report :	N/A	ATR Date :	N/A
Additional Attachment (If Any) :		Additional Remarks (If Any) :	

## 4. Summary Status of Compliance :

Total Condition :	60		
Complied :	34	Being Complied :	26
Not Complied :	0	Partially Complied :	0
Agreed to Comply :	0		


## 5. Details of Production and Project Area :

Date of Commencement of Project/Activity :	20 Jan 2021	Project Area as Per EC Granted (In Case of Mine Lease):	1592
--	-------------	---	------



Actual Project Area(In Case of Mine Lease):		1592		
PRODUCTION CAPACITY :				
S.No	Name of the Product	Units	As per EC granted	Production during last financial year
1	LPG	Tons per Annum (TPA)	7,97,000	1,049,108
2	MOTOR SPIRIT	Tons per Annum (TPA)	1,407,000	1,727,508
3	MIXED XYLENE	Tons per Annum (TPA)	350,000	118,524
4	NAPHTHA	Tons per Annum (TPA)	1,281,000	1,081,810
5	SKO + ATF	Tons per Annum (TPA)	2,132,000	9,03,167
6	HSD	Tons per Annum (TPA)	6,434,000	6,396,317
7	Fuel Oil (FO+LSFO+MFO)	Tons per Annum (TPA)	2,161,000	4,08,297
8	BITUMEN	Tons per Annum (TPA)	489,000	131,112
9	SULPHUR	Tons per Annum (TPA)	195,000	195,483
10	PET COKE	Tons per Annum (TPA)	674,000	835,049
11	VACCUM GAS OIL ( VGO)	Tons per Annum (TPA)	86,000	0
12	POLY PROPYLENE	Tons per Annum (TPA)	380,000	460,236
13	LPG	Tons per Annum (TPA)	797,000	1,049,108
14	MOTOR SPIRIT	Tons per Annum (TPA)	1,407,000	1,727,508
15	MIXED XYLENE	Tons per Annum (TPA)	350,000	118,524
16	NAPHTHA	Tons per Annum (TPA)	1,281,000	1,081,810
17	SKO + ATF	Tons per Annum (TPA)	2,132,000	903,167
18	HSD	Tons per Annum (TPA)	6,434,000	6,396,317
19	Fuel Oil (FO+LSFO+MFO)	Tons per Annum (TPA)	2,161,000	408,297
20	BITUMEN	Tons per Annum (TPA)	489,000	131,112
21	SULPHUR	Tons per Annum (TPA)	195,000	195,483
22	PET COKE	Tons per Annum (TPA)	674,000	835,049
23	VACCUM GAS OIL ( VGO)	Tons per Annum (TPA)	86,000	0
24	POLY PROPYLENE	Tons per Annum (TPA)	380,000	460,236

## 6. Specific Conditions (Proponent) :



S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	A(v). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stack height, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.	Being Complied	Noted for compliance and followed as applicable	N/A	
2	A(iv). The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R.595(E) dated 21st August, 2009 as amended	Being Complied	Noted for compliance	N/A	

	from time to time, shall be followed.				
3	A(vii). Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Complied	Noted for compliance and followed as applicable.	N/A	
4	A(vi). Total water requirement for the proposed project shall not exceed 61 m <sup>3</sup> /hr to be met from Treated Sewage effluent from Mangalore Special Economic Zone Limited (MSEZL). Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Complied	Noted for compliance and followed as applicable.	N/A	
5	A(ix). Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Complied	Details are attached here as half yearly compliance report- Modernization project		
6	A(xiv). For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Being Complied	Noted for compliance and followed as applicable. DG Sets emission and noise monitoring will carried out regularly as per CPCB guideline.	N/A	
7	A(xi). The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater gener	Complied	Noted for compliance and followed as applicable. All waste minimization measures undertake during project stage.	N/A	
8	A(viii). Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Complied	Noted for compliance and followed as applicable. All Hazardous chemicals stored and handle in safe & secure manner.	N/A	
9	A(i). They should submit latest certified compliance report within Six months in the Ministry. An undertaking letter/ certificate should be submitted by PP accordingly. While issuing latest CCR, RO,	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	

	MoEF shall review conditions of all existing clearances and recommend a consolidated EC by merging all conditions and removing redundant and repetitive conditions based on field inspection.				
10	A(xiii). The CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed if any in CER shall be spent during execution of the project and shall not be linked with the CSR.	Being Complied	Noted for compliance and followed as applicable.	N/A	
11	A(iii). The treated effluent of 446 m <sup>3</sup> /hr shall be sent for deep sea discharge through diffuser recommended by NIO.	Complied	Noted for compliance. Treated effluent discharged through existing pipeline facilities.	N/A	
12	A(xii). The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. The project proponent shall ensure 33% greenbelt area vis-a-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Being Complied	Noted for compliance and followed as applicable.	N/A	
13	A(ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Being Complied	Noted for compliance and followed as applicable.	N/A	
14	A(xv). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied	Noted for compliance and followed as applicable.	N/A	
15	A(xvii). Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied	Noted for compliance and followed as applicable.	N/A	
16	A(xix). The PP should improve the efficiency of ETP Plant and the water	Complied	Noted for compliance and followed as	N/A	

	discharge should be as per prescribed CPCB Norms. They should also install 24x7 hours monitoring system (of the discharge) and the same should be connected to the server of SCPB/CPCB.		applicable. Effluent monitoring system connected to CPCB/SPCB server for continuous online monitoring system.		
17	A(x). Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ash from boiler shall be sold to brick manufacturers/cement industry.	Complied	Noted for compliance and followed as applicable.		
18	A(xviii). Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.	Being Complied	Noted for compliance and followed as applicable. HAZOP, RRA and QRA etc. studies carried out before and after project completion.	N/A	
19	A(xvi) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for Irrigation / gardening, real time monitori	Complied	Details are attached here as half yearly compliance report- Modernization project		
20	A(i). They should submit latest certified compliance report within Six months in the Ministry. An undertaking letter/ certificate should be submitted by PP accordingly. While issuing latest CCR, RO, MoEF shall review conditions of all existing clearances and recommend a consolidated EC by merging all conditions and removing redundant and repetitive conditions based on field inspection.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
21	A(ii). The company shall comply with all the environmental protection measures and safeguards proposed in the documents	Being Complied	Details are attached here as half yearly compliance report-	N/A	

	submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.		Modernization project		
22	A(iv). The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R. 186(E) dated 18th March, 2008 and G.S.R.595(E) dated 21st August, 2009 as amended from time to time, shall be followed.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
23	A(v). Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.997% with effective chillers/modern technology. For emission control and management, use of FG/NG in heater as fuel, adequate stack height, use of Low NOX burners in heater & boiler, continuous stack monitoring, Sulphur recovery plant, etc. shall be installed/ensured.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
24	A(vii). Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
25	A(x). Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided. The ash from boiler shall be sold to brick manufacturers/cement industry.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
26	A(xiii). The CER allocation shall be spent mainly for addressing the issues raised during public consultation/hearing including education/skill development/solar lights, etc., and shall be completed within 5 years. The amount proposed if any in CER shall be spent during execution of the project and shall not be linked with the CSR.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
27	A(xiv). For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	



28	A(xii). The green belt of 5-10 m width shall be developed in the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. The project proponent shall ensure 33% greenbelt area vis-a-vis the project area through afforestation in the degraded area. The Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
29	A(xvii). Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
30	A(xviii). Process safety and risk assessment studies shall be further carried out using advanced models, and the mitigating measures shall be undertaken/implemented accordingly.	Being Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
31	A(ix). Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	Complied	Details are attached here as half yearly compliance report- Modernization project		
32	A(xvi) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for Irrigation / gardening, real time monitori	Complied	Details are attached here as half yearly compliance report- Modernization project		
33	A(xi). The company shall undertake waste minimization measures as below: - a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	


	equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater gener				
34	A(viii). Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
35	A(xix). The PP should improve the efficiency of ETP Plant and the water discharge should be as per prescribed CPCB Norms. They should also install 24x7 hours monitoring system (of the discharge) and the same should be connected to the server of SCPB/CPCB.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
36	A(vi). Total water requirement for the proposed project shall not exceed 61 m3/hr to be met from Treated Sewage effluent from Mangalore Special Economic Zone Limited (MSEZL). Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
37	A(iii). The treated effluent of 446 m3/hr shall be sent for deep sea discharge through diffuser recommended by NIO.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
38	A(xv). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	


## 7. General Conditions (Proponent):


S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	14.1(vi). A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla 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	Noted for compliance and followed as applicable	N/A	
2	14.1(ii).The energy source for lighting purpose shall be preferably LED based, or advanced having preference	Complied	Noted for compliance and followed as applicable.	N/A	



	in energy conservation and environment betterment.				
3	14.1(iv).The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being Complied	Noted for compliance and followed as applicable.	N/A	
4	14.1(iii).The overall noise levels in and around the plant area shall be kept well 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied	Details are attached here as half yearly compliance report- Modernization project		
5	14.1(v). The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	Being Complied	Noted for compliance and followed as applicable.	N/A	
6	14.1(i.) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add addi	Complied	Noted for compliance and followed as applicable.	N/A	
7	14.1(viii). The environmental statement for each financial year ending 31st March in Form-V as is mandated shall	Complied	Details are attached here as half yearly compliance		

	be submitted 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 Offices of MoEF&CC by e-mail.		report-Modernization project		
8	14.1(vii). 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&CC, 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.	Complied	Noted for compliance and followed as applicable.		
9	14.1(ix). 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 and at <a href="https://parivesh.nic.in/">https://parivesh.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 o	Complied	Noted for compliance and followed as applicable.	N/A	
10	14.1(x). 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.	Being Complied	Noted for compliance and followed as applicable.	N/A	
11	14.1(xi). This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Complied	Noted for compliance and followed as applicable.	N/A	
12	14.1(iv).The company shall undertake all relevant measures for improving the socioeconomic conditions of	Being Complied	Details are attached here as half yearly compliance	N/A	

	the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.		report-Modernization project		
13	14.1(v). The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	Being Complied	Details are attached here as half yearly compliance report-Modernization project	N/A	
14	14.1(x). 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.	Being Complied	Details are attached here as half yearly compliance report-Modernization project	N/A	
15	14.1(vii). 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&CC, 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.	Complied	Details are attached here as half yearly compliance report-Modernization project	N/A	
16	14.1(ii).The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Complied	Details are attached here as half yearly compliance report-Modernization project	N/A	
17	14.1(viii). The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall	Complied	Details are attached here as half yearly compliance report-Modernization project		

	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 Offices of MoEF&CC by e-mail.				
18	14.1(vi). A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla 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	Details are attached here as half yearly compliance report- Modernization project	N/A	
19	14.1(iii). The overall noise levels in and around the plant area shall be kept well 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Complied	Details are attached here as half yearly compliance report- Modernization project		
20	14.1(i.) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add addi	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	
21	14.1(ix). 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 and at <a href="https://parivesh.nic.in/">https://parivesh.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	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	

	region of which one shall be in the vernacular language o				
22	14.1(xi). This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Complied	Details are attached here as half yearly compliance report- Modernization project	N/A	

I ' MANGALORE REFINERY AND PETROCHEMICALS LTD ' hereby give undertaking that the specific / general condition is entered by me is correct.

**E-Sign**

**MANGALORE REFINERY AND PETROCHEMICALS LTD**

**Date : 19 Jan 2023 15:36:52:567**

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

**PRINT**

□