

EC Conditions Six Monthly Compliance Report

(by Project Proponent)



Proposal No : L//MoEF/Phase-III/038

1. Name of the Entity / Corporate Office :

File No. :	J - 11011/215/2010-IA II (I)	Proposal Name :	Expansion by adding Polypropylene Manufacturing Unit (440000 TPA) at Existing MRPL Refinery Complex
Date Of EC. :	01 Nov 2011	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 15:28:15:443
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 :	100		
Complied :	91	Being Complied :	9
Not Complied :	0	Partially Complied :	0
Agreed to Comply :	0		

5. Details of Production and Project Area :

Date of Commencement of Project/Activity :		02 Nov 2011	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	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	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(vii).As proposed, ultra low Sulphur fuel gas shall be used as fuel for the proposed gas based captive power plant. Fuel for the project shall be low sulfur fuel with less than 0.1 % S.	Complied	The Frame-6 GT with Fuel gas firing has been installed and commissioned. The Fuel gas sulphur is around 100 PPM wt. The GT is operational utilizing refinery Fuel Gas having low sulphur content.	N/A	
2	A(xxv).All the OISD standards shall be followed.	Complied	OISD norms / Guidelines are followed.	N/A	

3	A(iv).The process emissions (particulate matter, SO _x , NO _x ,HC,CO,VOCs and Benzene) from various units shall conform to all standards prescribed by the CPCB/Karnataka State Pollution Control Board (KSPCB) from time to time. At no time, the emissions levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack e	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
4	A(xii).For further control of fugitive emissions, following steps shall be followed: (a).Closed handling system shall be provided for chemicals. (b).Reflux condenser shall be provided over reactor. (c).System of leak detection and repair of pump/pipeline based on preventive maintenance. (d).The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. (e).Cathodic protection shall	Complied	a.Closed handling system provided for chemicals.b.The reactor has a proprietary technology.where the un-reacted propylene is recycled through a condenser.c.LDAR program being implemented in Refinery	N/A	
5	A(xxi).Spent catalyst shall be disposed through CPCB registered recyclers.	Complied	The Spent catalysts disposed off to the CPCB/KSPCB Authorized Recyclers/Reprocessor/TSDF as per the authorization of the Board.	N/A	
6	A(xxviii).Green belt shall be developed in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Complied	Total project area of MRPL is around 1592 acres; Greenbelt area comprises of 54 types of tree species spread over 538 acres (33.8% Greenbelt area) including compensatory afforestation at Pilikula etc.	N/A	
7	A(xxii).If the oily sludge is disposed by Bio-remediation process then proper care shall be taken to control water pollution by prevention from rain, ground water pollution by putting proper lining as per CPCB guidelines.	Complied	As a proactive measure, MRPL has designed a system for reprocessing of oily sludge and the crude oil tank sludge in the Delayed	N/A	

			Coking Unit (DCU). Further, Oily sludge is being disposed to Cement Ind.		
8	A(xxxi).All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented	Complied	Recommendations mentioned in the rapid risk assessment report have implemented.	N/A	
9	A(xv).Leak Detection and Repair Programme shall be prepared and implemented.	Complied	LDAR program is being carried out as per MoEF schedule.	N/A	
10	A(xxix).Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Complied	Details are attached here as Half yearly compliance report - Polypropylene Unit	N/A	
11	A(xxiii).Proper oil spillage management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
12	A(xvii).Total water requirement from Netravati River shall not exceed 1.48 MGD and prior permission shall be obtained from the concerned authority.	Complied	The water requirement for the project is within the limits.	N/A	
13	A(xviii).As proposed, effluent generation from the proposed propylene unit shall not exceed 37 m3/hr and treated in wastewater treatment plant (WWTP-3) comprising primary treatment, secondary treatment, contaminated rain water treatment facility and tertiary treatment. Treated wastewater shall be reused as cooling water make-up. Domestic sewage shall be treated in sewage treatment plant (STP). No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopte	Complied	Effluent generation from the polypropylene unit is less than 37 m3/hr and treated in wastewater treatment plant (WWTP-3). Treated wastewater is being used in the cooling water as a make-up.	N/A	
14	A(xxxiv).Provision shall be made for the housing for the construction labourers within site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be	Complied	Noted and Not applicable at present	N/A	


	removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.				
15	A(xxx).Company shall prepare project specific environmental manual and a copy shall be made available at the project site for the compliance.	Complied	As a part of ISO 14001 Environment Management System, environmental manual is prepared for PPU.	N/A	
16	A(xxxii).Company shall adopt Corporate Environment Policy as per the Ministry's O.M Mo. J-11013/41/2006-IA.II (I) dated 26th April, 2011 and implemented.	Complied	Environment Policy is adopted as a part of ISO 14001 Environment Management System.	N/A	
17	A(xxvi).The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of hazardous Chemicals (MSIHC) Rules,1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle act (MVA), 1989.	Being Complied	Being followed in the refinery.	N/A	
18	A(xxvii).The company shall undertake following waste minimization measures:- (a).Metering and Control of quantities of active ingredients to minimize waste. (b).Reuse of by-products from the process as raw materials 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 vapor recovery system. (f).Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Complied	a.Complied b.No by-products is manufactured from the PPU process. c.Automated filling system in place to minimize spillage. d.Closed feed system provided. e.Venting of equipment is reused in unit.	N/A	
19	A(xi).Steps shall be taken to minimize fugitive emissions. Monitoring of fugitive emissions shall be carried out as per guidelines of CPCB by fugitive emissions detector and report shall be submitted to the Ministry Regional Office at Bangalore. Fugitive emissions of BTX and VOCs from product storage tank yards shall be regularly monitored. Sensor for monitoring HC (BTX) and VOCs shall be installed at strategic locations.	Complied	Leak Detection and Repair program implemented in the existing Refinery complex and same is extended to this project also.	N/A	
20	A(xx).The company shall obtain Authorization for collection, storage and	Being Complied	Hazardous Waste Authorization renewal in	N/A	


	disposal of hazardous waste under the Hazardous Waste (Management, handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from KSPCB shall be obtained for disposal of sold/hazardous waste in the TSDF. Measure shall be taken for fire fighting facilities in case of emergency.		process and KSPCB inspection completed and awaiting authorization from KSPCB.		
21	A(xxxiii).MRPL shall carry out project 'Evaluation of SO2 prediction due to MRPL refinery and comparison with the ambient air quality data'.	Being Complied	Noted.	N/A	
22	A(iii).M/s Mangalore Refinery and Petrochemical Limited 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	Complied	MRPL is adhering to new standards for Oil Refinery Industry notified under the Environment (Protection) Rules, 1986.	N/A	
23	A(xiii).Continuous detection equipment for polypropylene powder particles and VOCs in the work zone and ambient air shall be controlled as per National/International norms	Complied	All systems are closed under inert atmosphere at the area where powder particles likely to generate.	N/A	
24	A(vi).Sulphur Recovery unit shall be installed to recover Sulphur with minimum 99.5 % efficiencies. Steps must be taken by MRPL to reduce the SO2 emissions from the refinery and action plan shall be submitted to the ministry and its regional Office at Bangalore.	Complied	The Sulphur Recovery units installed under the Phase-3 project have a design sulphur recovery efficiency of 99.9%.	N/A	
25	A(viii).As proposed, De-NOx technology shall be installed for major NOx emission sources for reducing the overall Nox emissions from the refinery complex. Low NOx burner shall be installed to control NOx emissions.	Complied	The Frame - 6 GT is equipped with inbuilt NOx control system	N/A	
26	A(xvi).The gaseous emission from DG set shall be dispersed through adequate stack heights as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied	Not applicable as there is no DGs envisaged in the project.	N/A	
27	A(x).Continuous ambient air quality monitoring stations for PM10/PM2.5, SO2,NOx, H2S, Mercaptan, NMHC, Ozone, Nickel shall be set up in the refinery complex in consultation with CPCB/KSPCB .Proper calibration of the monitoring instruments shall be done time to time. Data of stack	Complied	CAAQMS have been installed for monitoring continuous ambient air quality. Ambient air quality data is being displayed at our website as well as in the electronic	N/A	

	monitoring and ambient air shall be displayed on the web as well as outside the premises at prominent place for public viewing. The company shall upload the results of monitored data on its website and shall update the		display outside the gate for public vi		
28	A(i).Environmental clearance is subjected to disposal of court case regarding suspected contamination of the groundwater near Aturkodi area of Kuthethoor village.	Complied	A letter issued from the Office of the Assistant Commissioner & Sub-Divisional Magistrate, Mangaluru Subdivision on 27/04/2016 regarding disposal of court case on 18/07/2011.	N/A	
29	A(v).As proposed, polypropylene powder particles shall be removed/dedusted through elutriator cyclone/multi stage cyclone. The VOCs shall be removed by vacuum degassing system and then gas will be sent to flare. Stack of adequate height shall be provided to gas based CPP.	Complied	The process employs a closed loop nitrogen conveying system which eliminates the emission of PP powder particles. Membrane system is deployed to separate VOC and Nitrogen.	N/A	
30	A(ix).Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R No. 826(E) dated 16th September, 2009	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
31	A(ii).All the specific conditions and general conditions specified in the earlier environmental clearance letters accorded vide Ministry's letter no. 11011/6/89-IA-II dated 1st February, 1991, J-11011/1/96-IA-II dated 5th August, 1996, J-21-383/2007-IA-II dated 3rd April, 2008 and J-11011/8/2009-IA-II dated 23rd December, 2009 shall be implemented.	Complied	All the clearances were obtained from the statutory authorities and point wise compliance to the conditions stipulated in Ministry's letter nos. 11011/6/89-IA-II dated 1st February, 1991,etc.	N/A	
32	A(xxiv).The company shall strictly follow all the recommendation mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP) for the oil refineries.	Being Complied	Compliance to the CREP recommendation is being followed in the Refinery.	N/A	
33	A(xiv).Fugitive emissions due to polypropylene powder particles and VOCs in the work zone and ambient air shall be controlled as per National / International norms	Complied	VOC monitoring is being carried out as per MoEF guidelines.	N/A	

34	A(xix).Oil catchers/Oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Complied	Oil catchers/Oil traps are provided.	N/A	
35	A(xviii).As proposed, effluent generation from the proposed propylene unit shall not exceed 37 m3/hr and treated in wastewater treatment plant (WWTP-3) comprising primary treatment, secondary treatment, contaminated rain water treatment facility and tertiary treatment. Treated wastewater shall be reused as cooling water make-up. Domestic sewage shall be treated in sewage treatment plant (STP). No effluent shall be discharged outside the factory premises and Zero discharge concept shall be adopte	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
36	A(xxxiii).MRPL shall carry out project 'Evaluation of SO2 prediction due to MRPL refinery and comparison with the ambient air quality data'.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
37	A(xxiii).Proper oil spillage management plan shall be prepared to avoid spillage/leakage of oil/petroleum products and ensure regular monitoring.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
38	A(xx).The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from KSPCB shall be obtained for disposal of sold/hazardous waste in the TSDF. Measure shall be taken for fire fighting facilities in case of emergency.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
39	A(xxxiv).Provision shall be made for the housing for the construction labourers within site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	

	there is no impact on the surrounding environment.				
40	A(xix).Oil catchers/Oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
41	A(xxiv).The company shall strictly follow all the recommendation mentioned in the charter on Corporate Responsibility for Environmental Protection (CREP) for the oil refineries.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
42	A(v).As proposed, polypropylene powder particles shall be removed/dedusted through elutriator cyclone/multi stage cyclone. The VOCs shall be removed by vacuum degassing system and then gas will be sent to flare. Stack of adequate height shall be provided to gas based CPP.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
43	A(xiv).Fugitive emissions due to polypropylene powder particles and VOCs in the work zone and ambient air shall be controlled as per National / International norms	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
44	A(xiii).Continuous detection equipment for polypropylene powder particles and VOCs in the work zone and ambient air shall be controlled as per National/International norms	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
45	A(i).Environmental clearance is subjected to disposal of court case regarding suspected contamination of the groundwater near Aturkodi area of Kuthethoor village.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
46	A(xvi).The gaseous emission from DG set shall be dispersed through adequate stack heights as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied	Details are attached here as Half yearly compliance report - Polypropylene Unit	N/A	
47	A(viii).As proposed, De-NOx technology shall be installed for major NOx emission sources for reducing the overall Nox emissions from the refinery complex. Low NOx burner shall be installed to control NOx emissions.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
48	A(vi).Sulphur Recovery unit shall be installed to recover Sulphur with minimum 99.5 % efficiencies. Steps must be taken by MRPL to reduce the SO2 emissions from the	Complied	Half yearly compliance report - Polypropylene Unit	N/A	


	refinery and action plan shall be submitted to the ministry and its regional Office at Bangalore.				
49	A(ii).All the specific conditions and general conditions specified in the earlier environmental clearance letters accorded vide Ministry's letter no. 11011/6/89-IA-II dated 1st February, 1991, J-11011/1/96-IA-II dated 5th August, 1996, J-21-383/2007-IA-II dated 3rd April, 2008 and J-11011/8/2009-IA-II dated 23rd December, 2009 shall be implemented.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
50	A(iii).M/s Mangalore Refinery and Petrochemical Limited 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	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
51	A(x).Continuous ambient air quality monitoring stations for PM10/PM2.5, SO2,NOx, H2S, Mercaptan, NMHC, Ozone, Nickel shall be set up in the refinery complex in consultation with CPCB/KSPCB .Proper calibration of the monitoring instruments shall be done time to time. Data of stack monitoring and ambient air shall be displayed on the web as well as outside the premises at prominent place for public viewing. The company shall upload the results of monitored data on its website and shall update the	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
52	A(ix).Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R No. 826(E) dated 16th September, 2009	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
53	A(vii).As proposed, ultra low Sulphur fuel gas shall be used as fuel for the proposed gas based captive power plant. Fuel for the project shall be low sulfur fuel with less than 0.1 % S.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
54	A(xxv).All the OISD standards shall be followed.	Complied	Detail Remarks are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
55	A(xxvi).Spent catalyst shall be disposed through CPCB	Complied	Details are attached here as	N/A	

	registered recyclers.		Haly yearly compliance report - Polypropylene Unit		
56	A(xxix).Occupational health surveillance program shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Complied	Details are attached here as Half yearly compliance report - Polypropylene Unit	N/A	
57	A(xxvi).The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of hazardous Chemicals (MSIHC) Rules,1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle act (MVA), 1989.	Being Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
58	A(iv).The process emissions (particulate matter, SOx, NOx,HC,CO,VOCs and Benzene) from various units shall conform to all standards prescribed by the CPCB/Karnataka State Pollution Control Board (KSPCB) from time to time. At no time, the emissions levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack e	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
59	A(xii).For further control of fugitive emissions, following steps shall be followed: (a).Closed handling system shall be provided for chemicals. (b).Reflux condenser shall be provided over reactor. (c).System of leak detection and repair of pump/pipeline based on preventive maintenance. (d).The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water. (e).Cathodic protection shal	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
60	A(xxxii).Company shall adopt Corporate Environment Policy as per the Ministry's O.M Mo. J-11013/41/2006-IA.II (I) dated 26th April, 2011 and implemented.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	




61	A(xv).Leak Detection and Repair Programme shall be prepared and implemented.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
62	A(xxii).If the oily sludge is disposed by Bio-remediation process then proper care shall be taken to control water pollution by prevention from rain, ground water pollution by putting proper lining as per CPCB guidelines.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
63	A(xxx).Company shall prepare project specific environmental manual and a copy shall be made available at the project site for the compliance.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
64	A(xi).Steps shall be taken to minimize fugitive emissions. Monitoring of fugitive emissions shall be carried out as per guidelines of CPCB by fugitive emissions detector and report shall be submitted to the Ministry Regional Office at Bangalore. Fugitive emissions of BTX and VOCs from product storage tank yards shall be regularly monitored. Sensor for monitoring HC (BTX) and VOCs shall be installed at strategic locations.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
65	A(xxxi).All the recommendations mentioned in the rapid risk assessment report, disaster management plan and safety guidelines shall be implemented	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
66	A(xvii).Total water requirement from Netravati River shall not exceed 1.48 MGD and prior permission shall be obtained from the concerned authority.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	
67	A(xxvii).The company shall undertake following waste minimization measures:- (a).Metering and Control of quantities of active ingredients to minimize waste. (b).Reuse of by-products from the process as raw materials 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 vapor recovery system. (f).Use of high pressure hoses for equipment clearing to	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	

	reduce wastewater generation.				
68	A(xxviii).Green belt shall be developed in 33% of the total land as per the CPCB guidelines to mitigate the effect of fugitive emissions.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit	N/A	

7. General Conditions (Proponent) :


S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	B(xi).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 Forest as well as the State Government 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 and Complied.	N/A	
2	B(iv).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 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 by e-mail.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
3	B(xvi).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	Financial closure date and Project approval date was 27.05.2009	N/A	
4	B(ix).The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Being Complied	MRPL has developed an exclusive road for moving large consignments from the NMPT port to the project site. This is drastically reduced dust emission generated during	N/A	

			vehicle movement.		
5	B(xii).A copy of clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila Parisad/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 and Complied	N/A	
6	B(ii).No further expansion or modification in the plant shall be carried out without prior approval of Ministry of Environment and Forest. In case of deviation or alterations in the project proposal from those submitted to this Ministry of 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. No further expansion or modification in the plant will be carried out without prior approval of Ministry of Environment, Forest & Climate Change, New Delhi.	N/A	
7	B(xv).The project proponent shall inform the public that the project has been accorded environment 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 http://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 languages of the localit	Complied	The relevant advertisement was published on 6/11/11 in English and in Kannada in two widely circulated newspapers respectively.	N/A	
8	B(vii).The company shall also comply with all 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, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied	We are complying all environmental protection measures and safeguards proposed in the documents submitted to the ministry.	N/A	
9	B(vi).Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on	Being Complied	Training is being imparted to all the employees on safety and health aspects. Pre-employment and routine medical examinations for all employees being carried out	N/A	

	handling of chemicals shall be implemented.		and records are being maintained.		
10	B(viii).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 village and administration.	Being Complied	CSR Initiatives are being taken - up regularly.	N/A	
11	B(x).A separate Environment Management Cell equipped with full fledge laboratory facilities shall be set up to carry out the Environmental Management & Monitoring Functions.	Complied	MRPL is having a separate Environment Cell headed by Chief General Manager (CGM) and having required laboratory infrastructure earmarked for Environmental cell activities.	N/A	
12	B(v).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 water.	Being Complied	Mangalore is experiencing more than six months of heavy rain fall. Ground water table is very high in this region and therefore rain water harvesting to recharge the ground water is not feasible for t	N/A	
13	B(xiii).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 KSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied	A six monthly compliance report and the monitored data is being submitted to MoEF/CPCB/KSPCB regional office.		
14	B(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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied	Ambient Air Quality Monitoring is being carried out at 10 locations in and around the refinery in consultation with the KSPCB.		
15	B(iv).The overall noise levels in and around the plant area shall be kept within the standards by providing noise	Complied	The average noise level at the boundary wall found to be		

	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 75dBA (day time) and 70 dBA (night time)		within stipulated limit.		
16	B(i).The project authorities shall strictly adhere to the stipulation made by the Karnataka State Pollution Control Board (KSPCB).	Complied	Noted.	N/A	
17	B(x).A separate Environment Management Cell equipped with full fledge laboratory facilities shall be set up to carry out the Environmental Management & Monitoring Functions.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
18	B(ii).No further expansion or modification in the plant shall be carried out without prior approval of Ministry of Environment and Forest. In case of deviation or alterations in the project proposal from those submitted to this Ministry of 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	Half yearly compliance report - Polypropylene Unit	N/A	
19	B(vi).Training shall be imparted to all employees on safety and health aspects of chemicals 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 implemented.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
20	B(v).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 water.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
21	B(xvi).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	Half yearly compliance report - Polypropylene Unit	N/A	
22	B(xv).The project proponent shall inform the public that the project has been accorded environment	Complied	Half yearly compliance report -	N/A	

	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 http://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 languages of the localit		Polypropylene Unit		
23	B(vii).The company shall also comply with all 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, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
24	B(viii).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 village and administration.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
25	B(xi).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 Forest as well as the State Government 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	Half yearly compliance report - Polypropylene Unit	N/A	
26	B(ix).The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
27	B(xii).A copy of clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila Parisad/Municipal Corporation, Urban Local Body and the local NGO, If any, from whom suggestions/representations, if any, were received while processing the proposal.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	

28	B(iv).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 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 by e-mail.	Complied	Details are attached here as Haly yearly compliance report - Polypropylene Unit		
29	B(iv).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 75dBA (day time) and 70 dBA(night time)	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
30	B(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 stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
31	B(i).The project authorities shall strictly adhere to the stipulation made by the Karnataka State Pollution Control Board (KSPCB).	Complied	Half yearly compliance report - Polypropylene Unit	N/A	
32	B(xiii).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 KSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied	Half yearly compliance report - Polypropylene Unit	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 15:28:15:443

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

PRINT

□