


EC Conditions Six Monthly Compliance Report

(by Project Proponent)



Proposal No : J - 11011/1/96-IA. II (I)



1. Name of the Entity / Corporate Office :

File No. :	J - 11011/1/96-IA. II (I)	Proposal Name :	Expansion of Mangalore Refinery from 3.0 MMTPA to 9.0 MMTPA ,MRPL
Date Of EC. :	05 Aug 1996	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 17:02:55:287
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 :	56		
Complied :	56	Being Complied :	0
Not Complied :	0	Partially Complied :	0
Agreed to Comply :	0		



5. Details of Production and Project Area :


Date of Commencement of Project/Activity :		06 Aug 1996	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	2(i).The project authorities must obtain final NOC from the State Pollution Control Board before operating expansion facilities of 6 MTPA	Complied	KSPCB Clearances obtained	N/A	
2	2(i).The project authorities must obtain final NOC from the State Pollution Control Board before operating expansion facilities of 6 MTPA	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	




7. General Conditions (Proponent)_:

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	2(x).Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimised by adopting necessary measures.	Complied	Yes, complied by providing floating roof tanks with Secondary seal in all crude and distillates (MS, HSD, Naphtha, ATF/Kero) to mitigate the fugitive emissions	N/A	
2	2(vii).Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided.	Complied	In MRPL, total 7 Sulphur Recovery Units are provided with > 99% efficiency	N/A	
3	2(xxi). Noise levels in the work environment should not exceed 85 dB. The workers engaged in the noisy places should be provided with the ear plugs/muffs.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		
4	2(iii).The project authority must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government	Complied	Yes. Adhered to the stipulations made by the KSPCB	N/A	
5	2(xxii). A green belt of adequate width and density (2000-2500 trees/ha.) should be developed in consultation with the local DGO/Agriculture Department preferably using native plant species. A minimum of 30% of the land area should be earmarked for this purpose.	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	
6	2(v).Total emissions of SO2 from the expanded facilities should be in the range of 30 - 40 TPD maximum. Only low sulphur fuel should be used.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		
7	2(xix). Cutting of trees from the project site should be kept to minimum while developing the site and planning infrastructural facilities.	Complied	Cutting of trees were minimized and restricted to the bare minimum.	N/A	
8	2(xvi). System to recover oil from oily sludges and incinerator for burning the residues should be provided.	Complied	Chemical and oily sludge are treated in Centrifuges and oil is recovered to the maximum extent. Centrifuged sludge is stored scientifically in impervious sludge lagoon. MRPL has	N/A	


			designed a system		
9	2(iv).Any further expansion of the plant, either with the existing product mix or new product (s) or storage facilities etc., can be taken up only with the prior approval of this Ministry	Complied	Noted & Being complied Any further expansion of the plant, either with the existing product mix or new product (s) or storage facilities etc., will be taken up only with the prior approval of etc.	N/A	
10	2(xiv.) Liquid effluents from the refinery should conform to the standards as prescribed by the State Pollution Control Board/Ministry of Environment and Forests under the EPA, 1986. Treatment effluent should be subjected to bio assay test. Recycling / reuse of the treated effluent should be as per orders of the Karnataka Government of December 1995.	Complied	Treated Effluent Quality of various parameters is maintained far lesser than the KSPCB stipulated standards. Bio assay test of TE is carried out by M/s College of Fisheries on fortnightly basis. etc..	N/A	
11	2(vi).The gaseous and particulate matter emissions from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time, the emissions level should go beyond the stipulated standards. In the event of failure of any pollution control system (s) adopted by the unit, the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied	Noted and being complied. The gaseous and particulate matter emissions from various process units is conformed to the standards prescribed by the concerned authorities	N/A	
12	2(xvii). Hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the EPA, 1986 and necessary approval of State Pollution Control Board for safe collection, treatment, storage and disposal of hazardous wastes should also be obtained.	Complied	Hazardous Waste		
13	2(xv.) Adequate number of influent and effluent quality monitoring stations should be set up with adequate facilities especially for the parameters like phenols, sulphides, oil and grease, suspended solids, BOD 5 DAYS AT 27 O C), COD, pH and flow.	Complied	Daily analysis reports are being submitted to KSPCB on monthly basis. Also treated effluent from APMC yard is monitored on daily basis and analysis report of same is being	N/A	

			submitted to KSPCB on etc..		
14	2(xxvi). A separate environmental management cell with suitably qualified people to carry out various functions should be set up under the control of a Senior Executive, who will report directly to the Head of the organisation.	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	
15	2(xii).The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary.	Complied	Stacks are provided with heights well above CPCB stipulation.	N/A	
16	2(viii).Low NOx burners to avoid excessive formulations of NOx should be provided	Complied	Low NOx burners are provided in various heaters.	N/A	
17	2(xx).The industrial township should not be located in the down wind direction with respect to the refinery.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
18	2(ii).SPCB before granting "consent to operate" should ensure about adherence to safeguards stipulated in this letter.	Complied	Yes. KSPCB has ensured adherence to safeguards stipulated.	N/A	
19	2(xi).Adequate facilities for monitoring the fugitive emissions should be planned, data recorded and maintained.	Complied	Yes, monitoring the fugitive emissions data being collected and maintained.	N/A	
20	2(ix).At least five ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO ₂ , NO _x , CO and SPM are anticipated. The monitoring network should be decided based on the modelling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also be planned.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		
21	2(xxiv). Necessary approvals from Chief Explosives Directorate, Inspector of Factories, Fire Safety Inspector etc., should be obtained and copies of approval letters be made available to this Ministry.	Complied	Necessary approvals Obtained & submitted to Ministry.	N/A	
22	2(xiii).Designing of LPG spheres including the exclusion zone should be finalised in consultation and approval of the Department of Explosives.	Complied	Complied	N/A	

23	2(xviii). Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994.	Complied	Noted and complied.	N/A	
24	2(xxv). The project authorities must set up laboratory facilities for collection and analysis of samples under supervision of competent technical personnel, who will directly report to the Chief Executive.	Complied	A well-established NABL accredited Laboratory has been set up and functioning round the clock.	N/A	
25	2(xvii). The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for any other purpose and year-wise expenditure should be reported to this Ministry.	Complied	Noted and complied.	N/A	
26	2(xviii). Six monthly reports on the compliance status of project implementation vis-à-vis above environmental measures should be submitted to Regional Office of this Ministry at Bangalore.	Complied	Noted and complied.		
27	2(xxiii.) Suitable alarm system and standard procedures for permitting the information on fire or accidental release of hazardous/toxic substances to the nearby areas and the proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided.	Complied	Yes, suitable alarm system, meteorological station and windsocks are provided.	N/A	
28	2(vi).The gaseous and particulate matter emissions from various process units should conform to the standards prescribed by the concerned authorities, from time to time. At no time, the emissions level should go beyond the stipulated standards. In the event of failure of any pollution control system (s) adopted by the unit, the respective unit should be shut down immediately and should not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
29	2(vii).Sulphur recovery units with more than 99%	Complied	Details are attached here as	N/A	

	efficiency for sulphur recovery should be provided.		Half yearly compliance report- MRPL Phase-ii		
30	2(v).Total emissions of SO ₂ from the expanded facilities should be in the range of 30 - 40 TPD maximum. Only low sulphur fuel should be used.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		
31	2(iii).The project authority must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
32	2(xii).The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
33	2(xvi). System to recover oil from oily sludges and incinerator for burning the residues should be provided.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
34	2(xv.) Adequate number of influent and effluent quality monitoring stations should be set up with adequate facilities especially for the parameters like phenols, sulphides, oil and grease, suspended solids, BOD 5 DAYS AT 27 O C), COD, pH and flow.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
35	2(xi).Adequate facilities for monitoring the fugitive emissions should be planned, data recorded and maintained.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
36	2(iv).Any further expansion of the plant, either with the existing product mix or new product (s) or storage facilities etc., can be taken up only with the prior approval of this Ministry	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
37	2(xxi). Noise levels in the work environment should not exceed 85 dB. The workers engaged in the noisy places should be provided with the ear plugs/muffs.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		
38	2(ii).SPCB before granting "consent to operate" should ensure about adherence to safeguards stipulated in this letter.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
39	2(ix).At least five ambient air quality monitoring stations should be set up in the refinery area in the down wind direction as well as where maximum ground level concentrations of SO ₂ ,	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii		

	NOx, CO and SPM are anticipated. The monitoring network should be decided based on the modelling exercise to represent the short term GLCs. A mobile van with adequate facilities to monitor ambient air quality outside the refinery premises should also be planned.				
40	2(viii). Low NOx burners to avoid excessive formulations of NOx should be provided	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
41	2(xvii). The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for any other purpose and year-wise expenditure should be reported to this Ministry.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
42	2(xiv.) Liquid effluents from the refinery should conform to the standards as prescribed by the State Pollution Control Board/Ministry of Environment and Forests under the EPA, 1986. Treatment effluent should be subjected to bio assay test. Recycling / reuse of the treated effluent should be as per orders of the Karnataka Government of December 1995.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
43	2(xxii). A green belt of adequate width and density (2000-2500 trees/ha.) should be developed in consultation with the local DGO/Agriculture Department preferably using native plant species. A minimum of 30% of the land area should be earmarked for this purpose.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
44	2(xviii). Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
45	2(xix). Cutting of trees from the project site should be kept to minimum while developing the site and planning infrastructural facilities.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
46	2(xxvi). A separate environmental management cell with suitably qualified people to carry out various functions should be set up under the control of a Senior	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	

	Executive, who will report directly to the Head of the organisation.				
47	2(x). Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimised by adopting necessary measures.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
48	2(xxv). The project authorities must set up laboratory facilities for collection and analysis of samples under supervision of competent technical personnel, who will directly report to the Chief Executive.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
49	2(xvii). Hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the EPA, 1986 and necessary approval of State Pollution Control Board for safe collection, treatment, storage and disposal of hazardous wastes should also be obtained.	Complied	Hazardous Waste		
50	2(xxiii.) Suitable alarm system and standard procedures for permitting the information on fire or accidental release of hazardous/toxic substances to the nearby areas and the proper focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
51	2(xiii). Designing of LPG spheres including the exclusion zone should be finalised in consultation and approval of the Department of Explosives.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
52	2(xx). The industrial township should not be located in the down wind direction with respect to the refinery.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
53	2(xxiv). Necessary approvals from Chief Explosives Directorate, Inspector of Factories, Fire Safety Inspector etc., should be obtained and copies of approval letters be made available to this Ministry.	Complied	Details are attached here as Half yearly compliance report- MRPL Phase-ii	N/A	
54	2(xviii). Six monthly reports on the compliance status of project implementation vis-à-vis above environmental measures should be	Complied	Details are attached here as Half yearly compliance	N/A	

submitted to Regional Office of this Ministry at Bangalore.	report- MRPL Phase-ii		
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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 17:02:55:287

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

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