



मंगलूर रिफाइनरी एंड पेट्रोकेमिकल्स लिमिटेड  
MANGALORE REFINERY AND PETROCHEMICALS LIMITED

अनुसूची 'अ' के अंतर्गत भारत सरकार का उद्यम, SCHEDULE 'A' GOVT. OF INDIA ENTERPRISE.  
(ऑयल एंड नेचुरल गैस कॉर्पोरेशन लिमिटेड की सहायक कंपनी, A SUBSIDIARY OF OIL AND NATURAL GAS CORPORATION LIMITED)  
आई.एस.ओ. 9001, 14001 एवं 50001 प्रमाणित कंपनी, AN ISO 9001, 14001 AND 50001 CERTIFIED COMPANY.  
सीआईएन/CIN : L23209KA1988GOI008959 / वेबसाइट Website : www.mrpl.co.in

L/MS/MoEF&CC/7525  
29<sup>th</sup> May, 2024

The Director  
Ministry of Environment, Forest & Climate Change,  
4<sup>th</sup> Floor, E&F Wing, Kendriya Sadan,  
Koramangala, Bengaluru – 560 034

Dear Sir,

**विषय Subject:- Submission of Compliance to the Environmental Clearance(s) along with monitoring data**

Please find enclosed herewith point wise compliance to the following Environmental Clearance(s) issued to MRPL by Ministry of Environment, Forest & Climate Change (MoEF & CC), New Delhi.

1. Letter No. J – 11011/1/96-IA. II (I) dated 5<sup>th</sup> August, 1996 (Phase-II Project)

Half yearly compliance report submitted on the MOEFCC, Parivesh portal are attached here.

धन्यवाद Thanking You,

भवदीय Yours sincerely,

मंगलूर रिफाइनरी एंड पेट्रोकेमिकल्स लिमिटेड  
For Mangalore Refinery & Petrochemicals Limited,

*सुदर्शन*

एम.एस सुदर्शन M.S Sudarsan  
मुख्य महा प्रबंधक (स्वास्थ्य, संरक्षा एवं पर्यावरण)  
Chief General Manager (Health, Safety and Environment)

Encl: As above

Cc: Zonal Office, CPCB, Bengaluru  
Head Office, KSPCB, Bengaluru



परिवेश  
PARIVESH  
(CPC GREEN)

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest and Climate Change



Back

## View Compliance Report at Project Proponent

### Proposal Details

**Proposal No**

J-11011/1/96-IA. II (I)

**Category**

Industrial Projects - 2

**Name of Project**

Expansion of Mangalore Refinery from 3.0MMTPA to 9.0 MMTPA,MRPL

**Plot / Survey/ Khasra No.****Village(s)****Sub-District(s)****State**

KARNATAKA

**District**

DAKSHINA KANNADA

**MoEF File No**

J -11011/1/96-IA. II (I)

**Name of the Entity/  
Corporate Office**

Mangalore Refinery & Petrochemicals Limited

**Entity's PAN**

NA

**Entity Name as per PAN**

NA

**Entity details mentioned above is correct ?**

Agree

**Project KML**

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### Covering Letter

**Covering Letter**[Click to View](#)**Compliance Reporting Details****Reporting Year**

2023

**Reporting Period**

01 Jun(01 Oct - 31 Mar)

**Remark(if any)**

Expansion of Mangalore Refinery from 3.0MMTPA to 9.0 MMTPA,MRPL. Reporting for FY2023-24

**Details of Production and Project Area****Date of Commencement of Project/Activity**

06-08-1996

	Project Area as per EC Granted(ha.)	Actual Project Area in Possession(ha.)
Private	1592	1592
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	1592	1592

Sr.No.	Name of the Product	Units	As per EC Granted	As per CTO Granted	CTO ID	Valid Up To	Production during last financial year
1	Naphtha	Million Tons per Annum (MTPA)	1.771	1.771	AW-337260	30-06-2026	1.05
2	LPG	Million Tons per Annum (MTPA)	1.26	1.26	AW-337260	30-06-2026	1.02
3	Motor Spirit	Million Tons per Annum (MTPA)	1.96	1.96	AW-337260	30-06-2026	2.26
4	Kerosene	Million Tons per	0.05	0.05	AW-337260	30-06-2026	0.04

		Annum (MTPA)					
5	ATF	Million Tons per Annum (MTPA)	2.04	2.04	AW- 337260	30- 06- 2026	2.09
6	Diesel	Million Tons per Annum (MTPA)	6.47	6.47	AW- 337260	30- 06- 2026	6.20
7	Fuel Oil	Million Tons per Annum (MTPA)	0.37	0.37	AW- 337260	30- 06- 2026	0.29
8	Bitumen	Million Tons per Annum (MTPA)	0.19	0.19	AW- 337260	30- 06- 2026	0.12
9	Sulphur	Million Tons per Annum (MTPA)	0.31	0.31	AW- 337260	30- 06- 2026	0.18
10	Mixed Xylene	Million Tons per Annum (MTPA)	0.002	0.002	AW- 337260	30- 06- 2026	0.005
11	Pet Coke	Million Tons per Annum (MTPA)	1.12	1.12	AW- 337260	30- 06- 2026	0.81
12	Polypropylene	Million Tons per Annum (MTPA)	0.51	0.51	AW- 337260	30- 06- 2026	0.38
13	VGO	Million Tons per Annum (MTPA)	0.15	0.15	AW- 337260	30- 06- 2026	0.27

## Conditions

### Specific Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents
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## General Conditions

Sr.No.	Condition Heading	Condition Details	Status of Compliance,Remarks / Reason and Supporting Documents	
1	Statutory compliance	The project authorities must obtain final NOC from the State Pollution Control Board before operating expansion facilities of 6 MTPA	PPs Submission	KSPCB Clearances obtained Complied Attachment:NA
2	Statutory compliance	SPCB before granting "consent to operate" should ensure about adherence to safeguards stipulated in this letter.	PPs Submission	Yes. KSPCB has ensured adherence to safeguards stipulated. Complied Attachment:NA
3	Statutory compliance	The project authority must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government	PPs Submission	Yes. Adhered to the stipulations made by the KSPCB. Complied Attachment:NA
4	Statutory compliance	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	PPs Submission	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 this Ministry Complied Attachment:NA

5	AIR QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Noted and complied. Only low sulphur fuel is being used in the Heaters/Boilers. Complied Attachment: <a href="#">Click to View</a>
6	AIR QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	Noted and being complied. The gaseous and particulate matter emissions from various process units is conformed to the standards prescribed by the concerned authorities. Complied Attachment:NA
7	MISCELLANEOUS	Sulphur recovery units with more than 99% efficiency for sulphur recovery should be provided.	PPs Submission	In MRPL, total 7 Sulphur Recovery Units are provided with > 99% efficiency. Complied Attachment:NA

8	AIR QUALITY MONITORING AND PRESERVATION	Low NOx burners to avoid excessive formulations of NOx should be provided.	PPs Submission	Low NOx burners are provided in various heaters. Complied Attachment: <a href="#">Click to View</a>
9	AIR QUALITY MONITORING AND PRESERVATION	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 <sub>2</sub> , NO <sub>x</sub> , 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.	PPs Submission	Yes. 10 nos. AAQ stations are installed in and around the Refinery complex in consultation with KSPCB and monitoring data are being submitted to KSPCB regularly. Complied Attachment: <a href="#">Click to View</a>
10	AIR QUALITY MONITORING AND PRESERVATION	Fugitive emissions of HC from storage tanks, crude oil tanks etc., should be minimised by adopting necessary measures.	PPs Submission	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. Complied Attachment:NA

11	AIR QUALITY MONITORING AND PRESERVATION	Adequate facilities for monitoring the fugitive emissions should be planned, data recorded and maintained.	PPs Submission	Yes, monitoring the fugitive emissions data being collected and maintained. Complied Attachment:NA
12	AIR QUALITY MONITORING AND PRESERVATION	The stacks should be of appropriate design and height and should be attached to pollution control systems wherever necessary.	PPs Submission	Stacks are provided with heights well above CPCB stipulation. Complied Attachment:NA
13	MISCELLANEOUS	Designing of LPG spheres including the exclusion zone should be finalised in consultation and approval of the Department of Explosives.	PPs Submission	Complied. Complied Attachment:NA
14	WATER QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	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 submitted to KSPCB on monthly basis. In addition to the above, M/s. College of Fisheries, Mangalore is monitoring at 10 stations (7 inside the sea at Marine Outfall Point + 3 on the shore) on fortnightly basis. No adverse effects on the marine ecosystem observed till date. Online Continuous Monitoring stations installed for monitoring treated effluent and connected to online



				KSPCB and CPCB portal as per CPCB guidelines. Complied Attachment:NA
15	WASTE MANAGEMENT	System to recover oil from oily sludges and incinerator for burning the residues should be provided.	PPs Submission	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 designed a system for reprocessing of oily sludge and the crude oil tank sludge in the Delayed Coking Unit (DCU). Further, Oily sludge is being disposed to Cement Industries for Co-processing in their unit. Complied Attachment:NA
16	WASTE MANAGEMENT	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.	PPs Submission	The Hazardous Waste Authorization received from KSPCB and valid till 30-06-2026. Complied Attachment: <a href="#">Click to View</a>
17	MISCELLANEOUS	Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in	PPs Submission	Noted and complied. Complied Attachment:NA

		accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994.		
18	GREENBELT	Cutting of trees from the project site should be kept to minimum while developing the site and planning infrastructural facilities.	PPs Submission	Cutting of trees were minimized and restricted to the bare minimum. Complied Attachment:NA
19	MISCELLANEOUS	The industrial township should not be located in the down wind direction with respect to the refinery.	PPs Submission	Location of Industrial township was finalized in consultation with DEE, KSPCB & KIADB. Complied Attachment:NA
20	MISCELLANEOUS	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.	PPs Submission	Yes, suitable alarm system, meteorological station and windsocks are provided. Complied Attachment:NA

21	Statutory compliance	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.	PPs Submission	Necessary approvals Obtained & submitted to Ministry. Complied Attachment:NA
22	MISCELLANEOUS	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.	PPs Submission	A well-established NABL accredited Laboratory has been set up and functioning round the clock. Complied Attachment:NA
23	MISCELLANEOUS	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.	PPs Submission	MRPL is having a separate Environment Cell headed by Chief General Manager (CGM) and having required laboratory infrastructure earmarked for Environmental cell activities. Complied Attachment:NA
24	MISCELLANEOUS	The funds earmarked for the environmental protection measures should be kept in a separate account and should not be diverted for any other	PPs Submission	Noted and complied. Complied Attachment:NA

		purpose and year-wise expenditure should be reported to this Ministry.		
25	Statutory compliance	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.	PPs Submission	Noted and complied. Complied Attachment:NA
26	MISCELLANEOUS	The above conditions are in addition to conditions No.10, 11, 13 & 14 of this Ministry's letter No.J-11011/6/89-IA.II dated 1st February 1991 and those contained in letter No.J-11011/6/89-IA. II of 30th April 1993.	PPs Submission	Noted Complied Attachment:NA
27	MISCELLANEOUS	This Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities.	PPs Submission	Noted. Complied Attachment:NA
28	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	PPs Submission	Noted. Complied Attachment:NA

29	MISCELLANEOUS	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974; Air (Prevention and Control of Pollution) Act, 1981; the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 with their amendments and rules.	PPs Submission	Noted. Complied Attachment:NA
30	GREENBELT	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.	PPs Submission	Total project area of MRPL is around 1592 acres; Greenbelt area comprises of 54 types of tree species spread over 539.4 acres (33.9% Greenbelt area) including compensatory afforestation at Pilikula in 50 acres and at Bengre in 25 acres. Complied Attachment:NA
31	WATER QUALITY MONITORING AND PRESERVATION	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.	PPs Submission	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. Treated effluent is reused in the cooling towers to the maximum extent and balance is being discharged into sea. Complied

		Recycling / reuse of the treated effluent should be as per orders of the Karnataka Government of December 1995.		Attachment: <a href="#">Click to View</a>
32	Noise Monitoring & Prevention	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.	PPs Submission	Noise limits are well within the limits in the surrounding areas of Refinery. Workers are provided with adequate earplugs and ear muffs. Complied Attachment: <a href="#">Click to View</a>

### Document uploaded by the PP

#### Last Site Visit Report (if available)

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#### Last Site Visit Report Date (if available)

18-09-2022

#### Additional Attachment (if any)

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#### Additional Remarks (if any)

- I '[Mangalore Refinery & Petrochemicals Limited](#)' hereby give undertaking that the data and information given in the filed compliance and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information found to be false or misleading at any stage, the clearance given to the project will be revoked at our risk and cost. In addition to above, I hereby give undertaking that no activity such as change in project layout, construction, expansion, etc. has been taken up without due approval.

### Cover Letter From RO/SRO

#### Cover Letter From RO/SRO

NA

[Back](#)