



# 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)  
सीआईएन/CIN : L23209KA1988GOI008959

पंजीकृत कार्यालय : कुत्तेतूर पोस्ट, वाया काटीपल्ला मंगलूर - 575 030 (भारत) दूरभाष: 0824-2270400, फैक्स: 0824-2271404, E-mail: mrplmlr@mrpl.co.in  
Regd. Office : Kuthethoor P.O. Via Katipalla, Mangaluru - 575 030 (India) Tel. : 0824-2270400 Fax : 0824-2271404 Website : www.mrpl.co.in  
आई.एस.ओ. 9001, 14001 एवं 50001 प्रमाणित कंपनी AN ISO 9001, 14001 AND 50001 CERTIFIED COMPANY

L/MS/MoEF&CC/6596  
19th August, 2021

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 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. F. No. 11-3/2019-IA-III dated 18<sup>th</sup> April, 2019 (Desalination Plant Project)

Also environment monitoring data of Noise level, Ground Water quality, DG Sets Emission and Ambient Air Quality for the period March, 2020, February 2021 and March, 2021 is enclosed as **Annexure – I to IV**.

धन्यवाद Thanking You,

भवदीय Yours sincerely,

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

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  
Regional Office, KSPCB, Mangaluru

बेंगलूर कार्यालय : प्लॉट नं. A-1, - के .एस.एस.आई.डी.सी. प्रशासनिक कार्यालय भवन के सामने, इंडस्ट्रीयल एस्टेट, राजाजीनगर, बेंगलूर -560 010  
Bengaluru Office: Plot A-1, Opp. KSSIDC A. O. Building, Industrial Estate, Rajajinagar, Bengaluru - 560 010.  
दूरभाष: Tel: (का.) (O) 080-22642200, फैक्स Fax : 080 - 23505501  
दिल्ली कार्यालय : कोर-8,7<sup>th</sup> मंजिल, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली - 110003 दूरभाष: 011-24306400, फैक्स: 011-24361744  
Delhi Office : Core-8,7<sup>th</sup>, Floor SCOPE Complex, Lodhi Road, New Delhi - 110003. Tel.: 011-24306400, Fax: 011-24361744  
मुंबई कार्यालय : मेकर टॉवर 'ई' विंग 15वां तल, कफ परेड, मुंबई - 400 005. दूरभाष: 022-22173000, फैक्स: 22173233  
Mumbai Office : Maker Tower, 'E' Wing, 15th Floor, Cuffe Parade, Mumbai-400 005. Tel.: 022-22173000, Fax : 22173233

**Compliance to the CRZ Clearance for 70 MLD Desalination Plant Project**

**F. No. 11-3/2019-IA-III dated 18-04-2019**

<b>Part- A Specific Conditions:</b>		
<b>S.No.</b>	<b>Terms and conditions</b>	<b>Compliance Status</b>
(i)	The project proponent shall ensure that temporary structures installed for laying of pipe lines are moved within one months of accomplishment of the work.	Project is still in execution stage. Activity will be complied in a months' time once after laying the pipe line.
(ii)	Solid waste shall be collected, treated and disposed of in accordance with Solid Waste Management Rules, 2016.	Noted for compliance. Solid waste generated from project site is disposed to MCC through existing tie-up with Refinery.
(iii)	Appropriate financial allocation as per the Office Memorandum issued by the Ministry, dated 01.05.2018, on CER, for activities to be undertaken under CER shall be earmarked agencies within the six months of receipt of clearance letter.	Rs 5.81 cr is earmarked for CER activity. Currently afforestation project being taken up at Bengre with Rs 1.72 Cr in association with Forest Dept. GoK 39.06 Lacs was released for the same. In addition 1.14 Crs was approved for skill development training for unemployed youth from fishermen community.
(iv)	The project proponent shall submit an undertaking to the KCZMA before commencement of the work of the proposed plant stating that it shall bear full cost of environmental damage (if any) and restitution arising due to setting up of the proposed 70 MLD desalination plant.	Undertaking letter was submitted to KCZMA vide No. L/MS/KSCZMA/6061 dated on 01/07/2019.
(v)	All conditions/recommendations stipulated by the Karnataka Coastal Zone Management Authority (KCZMA) vide letter no. FEE 194 CRZ 2018, dated 22.12.2018, shall strictly be complied with.	No condition stipulated by KCZMA
(vi)	'NOC' from Karnataka Pollution Control Board for discharge of brine water into the sea after necessary safeguards shall be obtained prior to commencement of operation.	Complied. Consent for Establishment (CFEs) obtained from Karnataka State Pollution Control Board vide Consent No. CTE-313062 dated on 06/06/2019.
(vii)	'Consent to Establish' and/or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provision of Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act,	Complied. Consent for Establishment (CFEs) obtained from Karnataka State Pollution Control Board vide Consent No. CTE-313062 dated on 06/06/2019.

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	1974, as may be applicable.	Consent to Operate was applied for commissioning of Desalination plant.
(viii)	The construction in CRZ areas shall be done strictly in accordance with the provisions of CRZ notification, 2011 and as amended from time to time.	Construction in CRZ areas will be done strictly in accordance with the provisions of CRZ Notification.
(ix)	There shall be no dressing or alteration of the sand dunes, natural features including landscape changes for beautification, recreation and other such purpose.	There will not be any dressing or alteration of the sand dunes, natural features including landscape changes for beautification, recreation and other such purpose.
(x)	Soil and ground water samples in and around the Desalination Plant shall be tested regularly to ascertain that there is no threat to ground water quality through ingress/leaching of sea water.	On regular basis, monitoring of soil and ground water will be conducted, once after commissioning of Desalination plant to ascertain that there is no threat to ground water quality through ingress/leaching of sea water. Monitoring reports during project execution stage were enclosed.

<b>Part B - General Conditions:</b>		
<b>S.No.</b>	<b>Terms and conditions</b>	<b>Compliance Status</b>
(i)	A copy of the clearance letter shall be uploaded on the websites of the company/proponent and concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's office for 30 days.	Complied. CRZ clearance is uploaded at MRPL website ( <a href="https://mrpl.co.in/env_related_data">https://mrpl.co.in/env_related_data</a> ) on 22/4/2019. Copy of CRZ Clearance letter was submitted to KSPCB, District Industries Centre and the District Magistrate's office for displaying clearance letter vide letter no. L/MS/KSPCB/6006, L/MS/DIC/6008 & L/MS/DC/6007 respectively.
(ii)	The funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Noted. The funds for environmental protection measures will be provided in the budget and year-wise expenditure will be reported to concern Ministry. During FY 2020-21 nearly Rs 20,554 spent on environmental monitoring.

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(iii)	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
(iv)	Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.	Adequate infrastructure facilities were ensured for construction workers.
(v)	A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional office of this Ministry regarding the implementation of the stipulated conditions.	Noted and six-monthly monitoring report will be submitted. Six monthly report submitted to MoEF&CC Regional Office vide MRPL letter no. L/MS/MoEF/6373 dated 22-12-2020.
(vi)	The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Noted and will be complied.
(vii)	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
(viii)	The above stipulations would be enforced among others 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, the Public Liability (Insurance) Act 1991, the EIA Notification, 2006 and the CRZ Notification, 2011.	Noted and will be complied.
(ix)	Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of	Full co-operation will be extended, during their inspections.

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	implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF& CC shall be forwarded to the concerned Regional Office of MoEF& CC.	
(x)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
(xi)	The Ministry reserved the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986 for non-compliance.	Noted and will be complied.
(xii)	All other statutory clearances such as for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.	All the statutory clearances from the concerned competent authorities as applicable will be obtained.
(xiii)	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ clearance and copies of clearance letter are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.	Complied.  MRPL has published advertisement regarding this CRZ clearance in two local newspapers widely circulated in the region, one of which in the vernacular language (Kannada) dated on 26-4-2019.  Letter was submitted to Ministry of Environment, Forest and Climate Change Regional office, Bengaluru, vide no. L/MS/MoEF&CC/6011 dated on 26-04-2019.

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**Noise Monitoring Data March- 2020**

Desalination Plant Noise Location	Leq Noise Level (dB)
South Side Near GDCL Office	55.5
West Side UF Area	51.2
Intake Area (South West)	60.1
North Outfall	51.2

**Noise Monitoring Data Feb- 2021**

Desalination Plant Noise Location	Leq Noise Level (dB)
Near Transformer/ Diesel Generation Area	56
Near Work Shop Area/ GU Building	51.4
Near Intake Sump Unit	60.3
North Outfall	52.3

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Annexure - D

DG Sets Monitoring Data for Feb- 2021

LOCATION	SO <sub>2</sub>		NOx	PM	CO at 15% O <sub>2</sub>		O <sub>2</sub>	NMHC (as C)	Total VOCs
	mg/Nm <sup>3</sup>	25.8			mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>			
DG - 160 kVA Desalination Plant			86.7	23.4	66.5	8.9	15.1	6.5	

DG Sets Monitoring Data for March- 2020

LOCATION	SO <sub>2</sub>		NOx	PM	CO at 15% O <sub>2</sub>		O <sub>2</sub>	NMHC (as C)	Total VOCs
	mg/Nm <sup>3</sup>	24.2			mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>			
125 kVA DG Desalination Plant			84.6	19.6	63.5	9.8	13.8	7.9	

DG Sets Monitoring Data for March- 2020

LOCATION	SO <sub>2</sub>		NOx	PM	CO at 15% O <sub>2</sub>		O <sub>2</sub>	NMHC (as C)	Total VOCs
	mg/Nm <sup>3</sup>	15.7			mg/Nm <sup>3</sup>	mg/Nm <sup>3</sup>			
62.5 kVA DG Desalination Plant			39.2	9.4	43.5	10.2	9.8	3.4	

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Annexure - III

Ambient Air Quality Monitoring Data for March- 2020

LOCATION	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	O <sub>3</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Seawater Intake Area (West)	16.8	23.1	58	34	0.14	BDL
Near Chemical Building & Workshop (South side)	17.3	25.1	56	34	0.16	BDL
North (UF Area)	12.8	19.1	50	29	0.12	BDL
East (Near Admin Building)	11.4	20.5	48	25	0.11	BDL

Ambient Air Quality Monitoring Data for Feb- 2021

LOCATION	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO	O <sub>3</sub>
	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	µg/m <sup>3</sup>
Admin Building (South Side)	17.3	23.6	59	35	0.15	BDL
SWRO (East Side)	17.6	26.4	52	33	0.18	BDL
Work Shop Building (North Side)	13.9	20.4	52	26	0.14	BDL
EE Building (West Side)	11.8	22.6	49	26	0.13	BDL



**Water Quality Monitoring Data for March- 2021**

Sl.No.	Location	pH	Conductivity ( $\mu$ s/cm)	Turbidity (NTU)	Chloride (PPM)	Phosphate (PPM)	Silica (PPM)	Oil & Grease (PPM)
1	Isaac Construction	7.1	1669	1.2	312	<1.0	2.5	<1.0
2	VPA -SWRO	7.2	1366	<1.0	194	<1.0	4.8	<1.0
3	MA Associated near 220KV Tower	7.7	540	<1.0	44	<1.0	1.9	<1.0
4	VPA North Side	7	630	3.3	41	<1.0	2.7	<1.0
5	SAI Construction	7	9800	<1.0	3579	<1.0	3.8	<1.0
6	Wabag New Office	7.3	6500	<1.0	1755	<1.0	2.4	<1.0

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