

मंगलूर रिफाइनरी एण्ड पेट्रोकेमिकल्स लिमिटेड MANGALORE REFINERY AND PETROCHEMICALS LIMITED

अनुसूची 'अ' के अंतर्गत भारत सरकार का उद्यम, SCHEDULE 'A' GOVT. OF INDIA ENTERPRISE.

(ऑयल एण्ड नेचुरल गैस कॉरपोरेशन 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/7082 19th January, 2023

The Director
Ministry of Environment, Forest & Climate Change,
4th 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. F. No. 11-3/2019-IA-III dated 18th 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 April, 2022 to September, 2022 is enclosed as **Annexure** – I to II.

धन्यवाद Thanking You,

भवदीय Yours sincerely,

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

M 2 Sudans 223

एम. एस. सुदर्शन M.S Sudarsan मुख्य महा प्रबंधक (स्वास्थ, संरक्षा एवं पर्यावरण)

Chief General Manager (Health, Safety and Environment)

Encl: As above

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

> पंजीकृत कार्यालय: कुत्तेतूर पोस्ट, वाया काटिपल्ला मंगलूर - 575 030 (भारत). Regd. Office: Kuthethoor P.O. Via Katipalla, MANGALURU -575 030 (India).

Compliance to the CRZ Clearance for 70 MLD Desalination Plant Project

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

	Specific Conditions:	
S.No.	Terms and conditions	Compliance Status
(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.	Complied.
(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 Desalination project CER activity. Currently afforestation project being taken up at Bengre with Rs 1.72 Cr in association with Forest Dept. GoK, INR 93.02 Lacs was released for the same. In addition 1.14 Crs has been approved for skill development training for unemployed youth from the neighbouring 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	Complied. Consent for Establishment (CFEs) obtained from Karnataka State Pollution

	Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.	Control Board vide Consent No. CTE-313062 dated on 06/06/2019. 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.	Noted 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 are enclosed.

Part B	- General Conditions:	
S.No.	Terms and conditions	Compliance Status
(i)	A copy of the clearance letter shall be uploaded on the websites of the	Complied.
	company/proponent and concerned State	CRZ clearance is uploaded at MRPL website
	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.	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 2021-22 nearly Rs 11314.98 spent on environmental monitoring.
(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 Six monthly report submitted to MoEF&CC Regional.
(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.

	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.	· ·
(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 http://www.envfor.nic.in . 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.	-

, c = 150

Annexwel-I

Desalination Plant Monitoring Report

Ambient Air Quality Monitoring Data for June-2022

	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	CO	03
LOCATION	μg/m ³	μg/m ³	μg/m ³	μg/m ³	mg/m³	μg/m ³
Near Limestone Building	10.8	13.5	43	21	BDL	BDL
SWRO	12.4	15.7	36	18	BDL	BDL
Near Compressor Room	11.4	13.9	32	14	BDL	BDL
NPIT	11.2	14.6	34	17	BDL	BDL
Near Chemical Building & Workshop (South side)	9.6	11.8	30	13	BDL	BDL

DG Sets Monitoring Data for June-2022

LOCATION	SO ₂	SO ₂ NOx		CO at 15% O2 O2		NMHC (as C)	Total VOCs
	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	%	mg/Nm3	ppm
750 kVA DG Desalination Plant	23.5	66.7	21.6	58.9	7.4	15.4	5.3

Noise Monitoring Data June-2022

Desalination Plant Noise Location	Leq Noise Level (dB)(Day)	Leq Noise Level (dB)(Night)	
BWRO	70.6	64	
UF	67.3	64.2	
Intake	69	62.9	
Outfall	67.1	59.7	
SWRO	64.5	60	

Acoustic Noise levels observed during DG operation May-2022

Sampling Location	Time of Manitoring	When DG is not in operation (Background Level)	While DG in operation
DG - 750 kVA	02.15 PM	65.8	82.2

1st Floor, KSIA Building, Industrial Area Road, Baikampady,
Mangaluru 575 011 Ph: 0824-240 9011 Mob: +91 87625 39077
Email oneearthenviro@gmail.com Website: oneearthenvirolabs.com

ISO 9001:2015

ISO 45001:2018 Certified



MOEF & CC RECOGNISED/13/00

ULR NO TC78472200000 0507F

Biological

Report No: w/2022/JN1708B Report Date 22-06-2022

WATER QUALITY ANALYSIS REPORT

Name of the industry

M/s V A Tech Wabag

Address

30 MLD MRPL Distillation Plant Tannirbavi, Mangalore

Sample Collected By

Given By the User

Method

Sampling Location

Drinking Water- Service Water

Sample Appearance

Clear

Date of Sampling

17-06-2022

Analysis Start Date

17-06-2022

Date of Sample Receipt

17-06-2022

Analysis End Date

20-06-2022

Sampling Details

Drinking Water Sample for Micro Biological Analysis

Parameter	Unit	IS 10500-201 PL (MAX	"	. 1010001	
E-Coli MPN	MPN/100ml	Α	A(<1.8	9221-G	
Total Coliforms MPN	MPN/100ml	Α	A(<1.8	9221-B	
PL-Permissible Limit	Std-Standard	P-Present	A-Absent	< 1.8: Shall be treated as - ve	
Opinion	As per Standards requirement as p	rds mentioned in the report. Report Status:- The sample meets the as per relevant standard w.r.t above tested parameters.			

*** End of the Report ***

PHONE 2408011

For One Earth Enviro Labs

Authorized Signatory
(Dr. Sandesh K, Technical Manager)

Note: 1. The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected/received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise Specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty.

Page 1 of 1

1st 17oor. KSIA Building, Industrial Area Road, Baikampady, Mangaluru 575 011 Ph. 0824 240 9011 Mob. +91 87625 39077 oneearthenviro@gmail.com Website: oneearthenvirolabs.com

ISO 9001:2015

ISO 45001:2018 Certified

MOEF & CC RECOGNISED

Report No: w/2022/JN1708-2 Report Date: 22-06-2022

WATER QUALITY ANALYSIS REPORT

Name of the Industry

M/s V A Tech Wabag

Address

30 MLD MRPL Distillation Plant Tannirbavi, Mangalore

Sample Collected By

Given By the User

Method

Sampling Location

Drinking Water- Service Water

Sample Appearance

Clear

Date of Sampling

17-06-2022

Analysis Start Date

17-06-2022

Date of Sample Receipt

17-06-2022

Analysis End Date

22-06-2022

Sampling Details

Drinking Water Sample for Chemical Analysis

Parameter		Unit:	IS 10500-2012 STD		DLT	Results	Protocol	
-	-artifolios areatifica.		DL (MAX)	PL (MAX)		Code:JN1708	IS 3025	
		Ag	Ag	NS	0	Ag	Part 5 (2nd Revision) :2018	
Taste		Ag	Ag	NS	0	Ag	Part 7 and 8	
NS-Not Specified	ND-Not Detectable	DLT-De	etection Limit	BDL-Below	DLT	DL-Desired Lim	it UO-UnObjectionable	

Opinion

As per Standards mentioned in the report. Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters.

Per . 515

*** End of the Report ***

For One Earth Enviro Labs

Chiling

Authorised Signatory
(Murlidhar S M, Quality Manager)

Note 1 The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2 The above result pertains only to the samples collected / received 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4 Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty.

Page 1 of 1

1st Floor, KSIA Building, Industrial Area Road, Baikampady, Mangaluru 575 011. Ph: 0824-240 9011 Mob: +91 87625 39077 Email: oneearthenviro@gmail.com Website: oneearthenvirolabs.com

Cértificate No. TC-7847 NABL ISO/IEC 17025:2017

ISO 9001:2016

ISO 45001:2018 Certified

MOEF & CC RECOGNISED

ULR NO TC78472200000 0506F

Chemical

Report No: W/2022/JN1708A // Report Date: 22-06-2022

WATER QUALITY ANALYSIS REPORT

Name of the Industry

M/s V A Tech Wabag Ltd.,

Address

30 MLD MRPL Distillation Plant Tannirbavi, Mangalore

Sample Collected By

Given By the User

Method

Sampling Location

Drinking Water- Service Water

Mcthod

Sample Appearance
Date of Sampling

Clear

17-06-2022

Analysis Start Date

17-06-2022

Date of Sample Receipt

17-06-2022

Analysis End Date

22-06-2022

Sampling Details

Drinking Water Sample For Chemical Analysis

Parameter	Ur	it IS 105	IS 10500-2012 STD		Results	Protocol
		DL (MA	X) PL (MA	X)	Code:JN1708	IS 3025
Aluminium as Al	mg	/L 0.03	0.2	0.04	BDL	(Part 55 a):2003 RA: 2019
Ammonia (as Total Ammonia-N	I) mg	;/L 0.05	0.2	0.05	0.05	(Part34, C):1988 RA : 2019
Barium as Ba	mg	;/L 0.7	0.7	0.25	BDL	IS 15302:2003 RA: 2018
Boron as B	mg	;/L 0.5	1	0.02	0.076	(Part57 b):2005 RA : 2017
Cadmium as Cd	mg	;/L 0.003	3 0.003	0.02	BDL	OEL/SOP/W/74
alcium as Ca	mg	/L 75	200	1	15.32	(Part 40 a):1991 RA : 2019
hloride as Cl	mg	;/L 250	1000) 1	152.85	(Part 32,2):1998 (RA: 2019)
olor	Co	lor 5	15	1	1	(Part 4 a);1983 RA:2017
onductivity	μ S /	cm NS	NS	1	569.76	(Part 14):2013 RA : 2019
бррст	mg	/L 0.05	1.5	0.05	BDL	(Part 42 a):1992 RA: 2019
ead as Pb	mg	;/L 0.01	0.01	0.05	BDL	OEL/SOP/W/72
Nagnesium as Mg	mg	/L 30	100	1	1.04	(Part 46):1994 RA: 2019
Manganese as Mn	mg	/L 0.02	0.02	0.02	0.02	APHA - 3500-Mn 8
Mercury as Hg	mg	/L 0.00:	0.003	0.005	BDL	(Part 48 a): 1994 RA: 2019
entrate as NO ₃	mg	/L 45	45	0.1	BDL	(Part 34,38):1988 RA: 2019
ਮ	Vạl	ue 6.5	8.5	1	8.18	(Part 11,2):1983 RA: 2017
Phenolic Compounds as C,H,OH	n&	/L 0.00	0.002	0.01	BDL	(Part 43a):1992 RA: 2019
Setenium as Se	mg	/L 0.01	0.01	0.02	BDL	(Part56 b): 2003 RA: 2019
Sulphate as SO ₄	mg	/L 200	400	1	10	APHA - 4500- SO4C
Sulphide as S	mg	/L 0.05	0.05	0.05	BDL	APHA - 4500- S2-F
Total Alkalinity as CaCO ₃	mg	/L 200	600	1	44.64	(Part 23):1986 RA: 2019
Total Arsenic as As	mg	/L 0.01	0.05	0.005	BDL	(Part 37):1988 RA:2019 By AAS
Total Chromium	mg	/L 0.05	0.05	0.5	BDL	(Part 52):2003 RA: 2019
Total Dissolved Solids	mg	/L 500	2000	1	380	(Part 16):1984 RA: 2017
total Hardness as CaC();	mg				42.56	(Part21,A):2009 RA: 2019
total fron as Fe	mg	/L 1	1	0.02		(Part 53 a):2003 المنتقبر 19
Turbidity	NT		5	0.05	0.05	(Part Wild Parth
√inc as Zn	mg	-	15	0.1	BDL	(Par) 9 11944 RA: 201
NS Not Specified		ND Not Detectable	DLT-Detect		BDL-Below DLT	DL-De red Lingtone

1st Ficot, KSIA Building, Industrial Area Road, Baildampady, Mangaluru 575 011 Ph 0824 240 9011 Mob. +91 87625 39077 Email oneearthenviro@gmail.com Website: oneearthenvirolabs.com



Certificate No. TC-7847
NABL ISO/IEC 17025:2017

MOEF & CC RECOGNISED

ISO 9001:2015

ISO 45001:2018 Certified

ULR NO TC78472200000 0506F Chemical Report No: W/2022/JN1708A

Report Date: 22-06-2022

Opinion

As per Standards mentioned in the report. Report Status:- The sample meets the requirement as per relevant standard w.r.t above tested parameters. Water is potable.

*** End of the Report ***

PHONE 2408011

For One Earth Enviro Labs

Authorised Signatory (Murlidhar S M, Quality Manager)

Note 1 The report shall not be reproduced wholly or in part, cannot be used as evidence in court of law. 2. The above result pertains only to the samples collected / received. 3. Samples will be destroyed after fifteen days from the date of issue of test reports unless otherwise specified. Perishable samples are not retained. 4. Any dispute arising out of this test report is subjected to Mangalore Jurisdiction only. 5. Total liability of our lab is limited to the invoice amount only. 6. Conformity statement might be affected due to measurement uncertainty.

Page 2 of 2

1