

Chennai Metro Rail Limited

(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)

Letter No. CMRL/CON/ES/868/2022

Dated: 10.11.2022

To,

Shri Hemanth Kumar, IFS,

Deputy Director General of Forests (C),

Ministry of Environment, Forest and Climate Change, Integrated Regional Office.

1st Floor, Additional Office Block for GPOA,

Shastri Bhawan, Haddows Road

Nungambakkam, Chennai - 600 034

Dear Sir.

CHENNAI METRO PAIL LIMITED

OF SPATSHED BY

PROPRESS READ SPAD

17. NOV 2022 -
TPLE No: 5-300

Sub: Submission of Six-Monthly Monitoring report (CRZ Clearance) for the period of May 2022 to October 2022 for the Construction of Extended Corridor 4 of Chennai Metro Rail Project Phase II from the Light House to Poonamalle Bypass by M/s Chennai Metro Rail Limited (CMRL) - Reg.

Ref: CRZ Clearance Letter No F.No.11-13/2022-IA.III dated 22nd April 2022.

With reference to the Part B - General Conditions, Condition no. (vii) stipulated in the CRZ Clearance cited above we are submitting herewith the six monthly monitoring report (May 2022 to October 2022) along with necessary supporting documents for your kind information

We wish to mention that all the necessary actions are being taken in compliance to the specific and general conditions of CRZ Clearance granted to the project.

We trust that the information furnished is in line with your requirement.

Yours Sincerely,

Thanking You.

Saravana Kumar R, DM/Environment

Enclosure: As stated above



ET166881802IN IVR:698416688180
SP KOYAMBEDU S.O (600107)
Counter No:1,19/11/2022,13:52
To:HEMANTH KLIMAR IFS,A
PIN:600034, Mungambakkam MDO
From:CMRL,CMRL DEPUT
Wt:48gms
Amt:0.00FM:18.00Tax:2.70
(Track on www.indiapost.gov.in)
(Dial 18002666868) (Wear Masks, Stay Safe)

CIN : TIROTOOMNOOOTOCOOCECO

Six Monthly Monitoring Report for CRZ Clearance issued by MoEF&CC, New Delhi vide letter . F. No. 11-13/2022-IA.III, dated 22nd April, 2022 for Construction of Extended Corridor 4 – of Chennai Metro Rail Project Phase – II from Light House to Poonamalle Bypass by M/s Chennai Metro Rail Limited

Part A - Specific Conditions

S. No.	Description	Status of Compliance / Remarks
i.	All construction shall be strictly by the	Noted.
	provisions of CRZ Notification, 2011 and	Agreed to comply the CRZ Notification,
	as amended from time to time.	2011 and its amendments.
ii.	The PP as committed should submit a	Complied.
	Tree Plantation Management Plan that	Tree Plantation Management Plan for
	around 133 trees will be cut during the	the Light House Station (CRZ area)
	construction phase of the project with a	submitted to Tamil Nadu Forest
	consultation with the Forest Department	, , , , , , , , , , , , , , , , , , , ,
	before the commencement of the project	The tree cutting/translocation
	or activity.	permission obtained from District Green
		Committee vide letter Minutes of the 4 th
		District Green Committee meeting at
		District Collectorate, Chennai on
		02.09.2022. Copy of MoM attached as
121	No special of LH I I I I	Annexure 1.
iii.	No ground water shall be extracted	Being Complied.
	within the CRZ area to meet water	No ground water within the CRZ area
	requirements during the construction	was extracted during the construction or
iv.	and/or operational phase of the project. The project proponent shall ensure the	operation phase of the project. Being Complied.
	natural flow of the creek water at the	No blockage of river or creek is
	project site.	envisaged in our project proposal.
	project one.	Proper care shall be taken to ensure free
		flow of water.
V.	No excavated material during the	Noted and Agreed to comply.
	construction shall be dumped in water	
	bodies or adjacent areas. The site shall	
	be restored to its near original condition	
	after completion of construction.	
vi.	Permanent labour camp, machinery and	Complied.
	material storage shall not be set up in the	Labour camp, machinery and material
	CRZ area.	storage area located far away from the
		CRZ area.
vii.	Any temporary physical infrastructure	Noted and Agreed to Comply.
	set up during the construction period	CMRL will ensure that all temporary
	shall be removed simultaneously with	physical infrastructure will be removed
	the completion of laying of each segment	post work completion.
vitt	of the project.	N. d.
viii.	All the conditions stipulated by the Tamil	Noted and Agreed to Comply.
	Nadu Coastal Zone Management	Table 1

Six Monthly Monitoring Report for CRZ Clearance issued by MoEF&CC, New Delhi vide letter. F. No. 11-13/2022-IA.III, dated 22nd April, 2022 for Construction of Extended Corridor 4 – of Chennai Metro Rail Project Phase – II from Light House to Poonamalle Bypass by M/s Chennai Metro Rail Limited

S. No.	Description	Status of Compliance / Remarks	
	Authority for CRZ Clearance vide its	CMRL will comply with all the stipulation	
	Letter No. RC No P1/2503/2021. Dated	made by Tamil Nadu Coastal Zone	
	19/01/2022, and its commitments made	Management Authority and the	
	by the CZMA and EAC shall be followed	commitments made by the CZMA and	
	in letter and spirit.	EAC.	
ix.	All necessary clearance from the	Noted and Agreed to Comply.	
*2	concerned authority, as may be	All pre requisite approvals / clearance	
	applicable should be obtained before	will be obtained before commencement	
	commencement of the project or activity.	of the project or activity.	

Part B - General Conditions

S. No.	Description	Status of Compliance / Remarks
i,	Management of solid waste by the Solid Waste Management Rules, 2016 shall be strictly implemented.	Noted and Agreed to Comply.
ii,	'Consent to Establish' and / or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of the Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.	Noted and Agreed to Comply. CMRL ensure that the 'Consent to Establish' and / or 'Consent to Operate' will be obtained from TNPCB before the establishing the Batching Plants (RMC Plant) in the Non-CRZ areas.
iii.	Disposal of muck during the construction phase should not create any adverse effect on the neighboring communities and be disposed of taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.	Noted and Agreed to Comply.
iv.	All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by the Central / State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea / coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water	Complied. No disposal of liquid wastes done in the sea / coastal water bodies.

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S. No.	Description	Status of Compliance / Remarks
	shall be reused for landscaping, flushing and/or HVAC cooling purposed etc.	
	within the development. The project	
	proponent should also make alternate	
	arrangements for situations arising fir to	
	malfunctioning STP. There shall be	
	regular monitoring of standard	
	parameters of the effluent discharge	
	from STP under intimation to the SPCB.	
V ***	Any hazardous waste generated during the construction phase, shall be	Noted and Agreed to Comply.
	disposed off as per the applicable rules	
	and norms with the necessary	
	approvals of the State Pollution Control	
	Board.	TUDOD
Vİ,	uploaded on the website of the	TNPCB and TNCZMA is the concern
	concerned State Coastal Management	sauthority for the same.
	Authority/ State Pollution Control Board.	
	The clearance letter shall also be	15
	displayed at the Regional Office, District	
	Industries Centre and Collector's Office	
	for 30 days.	
vii,	A Six-monthly monitoring report shall	Being complied.
	need to be submitted by the project	This is the 1st compliance report and it is
	proponent to the concerned Regional	,
	Office of this Ministry regarding the	MoEF&CC & would be uploaded in
	implementation of stipulated conditions.	CMRL website.
viii.	The Ministry of Environment, Forest &	Noted and Agreed, subjected to
	Climate Change or any other	applicability and validity of condition, if
	Competent Authority may stipulate any additional conditions or modify the	any.
	existing ones, if necessary in the	
	interest of the environment and the	
	same shall be complied with.	
ix.	Full co-operation shall be extended to	Agreed to Comply.
	the officials from the Regional Office of	Full support and coordination will be
	MoEF&CC, during monitoring of the	extended to the Officials from the
	implementation of environmental	Regional Office of MoEF&CC during the
	safeguards stipulated. It shall be	monitoring of the implementation of
	ensured that documents/data sought	environmental safeguards.
	pertinent is made available to the	METRO RAVI

Six Monthly Monitoring Report for CRZ Clearance issued by MoEF&CC, New Delhi vide letter . F. No. 11-13/2022-IA.III, dated 22nd April, 2022 for Construction of Extended Corridor 4 – of Chennai Metro Rail Project Phase – II from Light House to Poonamalle Bypass by M/s Chennai Metro Rail Limited

S. No.	Description	Status of Compliance / Remarks
	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 _s ,	In the case of any change(s) in the	Agreed and shall be complied if such
	scope of the project, the project would	event occurs.
	require a fresh appraisal by this Ministry.	
xi.	The ministry reserves the right to add	Noted.
	additional safeguard measures	
	subsequently, if considered necessary,	1.
	and to take action to ensure effective	
	implementation of the suggested	
	safeguard measures in a time-bound	
	and satisfactory manner, including	
	revoking the environmental clearance	
	under the provisions of the	
	Environmental (Protection) Act, 1986,	y-
	for non-compliance.	
xii.	All other statutory clearances such as	Agreed to Comply.
	approvals for storage of diesel from	Presently, activities are yet to be started
	Chief Controller of Explosives, Fire	All other applicable statutory clearance
	Department, Civil Aviation Department,	will be taken from the respective
	Forest Conservation Act, 1980 and	competent authorities.
	Wildlife (Protection) Act, 1972 etc., shall	
1	be obtained, as applicable by project	
	proponent from the respective	
	Competent Authorities.	
xiii.	The project proponent should advertise	Complied.
	in at least two local newspaper widely	Grant of CRZ Clearance Letter has been
	circulated in the region, one of which	advertised on 01.05.2022 in two loca
	shall be in the vernacular language	newspapers namely
	informing that the project has been	• Dina Thanthi ((தினத்தந்தி) ir
	accorded CRZ Clearance and copies of	Tamil language.
	clearance letters are available with the	 The Hindu in English language.
	State Pollution Control Board (SPCB)	and a man and an anguage.
	may also be seen on the website of the	Copy of advertisement has been already
	Ministry of Environment, Forest and	submitted to MoEF&CC vide letter no
	Climate Change at	CMRL/CON/ES/773/2022 or
	https://parivesh.nic.in/.	03.05.2022.
	advertisement should be made within	
	seven days from the date of receipt of	METROP
	Clearance letter and a copy of the same	St. Williams

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S. No.	Description	Status of Compliance / Remarks
	should be forwarded to the concerned Regional Office of this Ministry.	
xiv.	A copy of the clearance letter shall be sent by the project proponent to the	Complied. A copy of the CRZ Clearance letter
	concerned Panchayat, Zilla Parisad /	marked to Greater Chennai Corporation
	Municipal Corporation, Urban Local	vide letter no. CMRL/CON/ES/765/2022
	Body and the Local NGO, if any, for whom suggestions / representations, if	on 03.05.2022.
	any, were received while processing the	As on date, No suggestions and representation received from the said
	proposal.	authority.
XV.	The proponent shall upload the status of	Being complied.
	compliance of the stipulated conditions,	
	including the results of monitored data on their website and shall update the	
	same periodically. It shall be	
	simultaneously be sent to the Regional	
	Office of MoEF&CC, the respective	9-
	Zonal Office of CPCB and the SPCB.	
xvi,	The environmental statement for each	Agreed to Comply.
	financial year ending 31st March in	The environmental statement for each
	Form-V is mandated to be submitted by	financial year ending 31st March in Form-
	the project proponent to the concerned State Pollution Control Board as	V will be sent to TNPCB and to the Regional Office of the Ministry by e-mail.
	prescribed under the Environmental	Tregional Office of the Ministry by e-mail.
	(Protection) Rules, 1986, as amended	7
	subsequently, shall also be put on the	
	website of the project proponent along	
	the status of compliance of clearance	
	conditions and shall also be sent to the	
	Regional Office of the Ministry by e-mail.	





TEST REPORT

POLLUCARE ENGINEERS INDIA PVT.LTD., (Laboratory Services Division)

HIG - 6152 TNHB Phase I & II, Kamarajar Road, Ayapakkam,

Chennal - 600 077

Ph :+91 44 2682 3190 / +91 73977 96831

Email lab@pollucareindia.com Web www.pollucareinida.com

Report No	: PCEI/TR-AAQ-5649	Report Date	21,09,2022
Discipline	Chemical	Group	: Atmospheric Pollution
Issued to	: M/S. Chennai Metro Rail Limited		
	CMRL Depot Admin Building,		
	Poonamalle High Road, Koyambedu,		
	Chennai -600 107.		
Project Name	: CMRL/CON/PHASE-II/C4/UG-1/2022		
Sampling Method	: IS 5182 (Part 23) 2006		
Sampled by	: Laboratory		
Sample Collected Date	. 15.09.2022	Sample Reference No	PCEI/AAQ-172-09-22
Sample Description	: Ambient Air	Sample Received On	16.09.2022
Qty of Sample Received	: Filter Paper & 30ml	Test Commenced On	16.09.2022
Sample Condition	; Fit for Analysis	Test Completed On	21.09.2022
Sampling Location	: Light House Location		

	Weather Condition				
Ambient Temperature	≗ 32°C				
Relative Humidity	. 72%				
Climate Condition	Broken Clouds				
Predominent Wind Direction	: W				

S.No	Parameters	Units	Test Method	Results	NAAQ Standards for Industrial, Residential, Rural and Other Area
1	Sulphur dioxide (as SO ₂)	µg/m³	IS 5182 (Part 2) 2001 (RA 2017)	18.4	80
2	Oxides of Nitrogen (as NO ₂)	µg/m³	IS 5182 (Part 6) 2006 (RA 2017)	25.3	80
3	Respirable Particulate Matter (PM ₁₀)	µg/m³	IS 5182 (Part 23) 2006 (RA 2017)	63.1	100
4	Respirable Particulate Matter (PM _{2.5})	µg/m³	IS 5182 (Part 24) 2019	33.7	60
5	Carbon Monoxide (as CO)	mg/m³	IS 5182 (Part 10) 1999 (RA 2019)	BDL(DL:1.14)	4**

Note: i) NAAQS - National Ambient Air Quality Standards Issued by CPCB (Central Pollution Control Board) in 2009

ii) TWA - Time Weighted Average iii)

iii) **- TWA for 1 Hour iv) * - TWA for Annual

BDL - Below Detection Limit ; DL - Detection Limit

....... End of Report Page 1 of 1

Verified By Karthick.V Senior Chemist



Authorised Signatory Selvi.S Technical Manager





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HIG = 6152, TNHB Phase I & II, Kamarajar Road, Ayapakkam,

Chennai - 600 077

Ph : +91 44 2682 3190 / +91 73977 96831

Email: lab@pollucareindia.com Web: www.pollucareinida.com

Report No	PCEI/TR-N-5653		Report Date 4 21.09.2022
Sampling Date	Sampling Time	Day Time	Night Time
Sampling Date	Sampling time	Readings dB(A)	Readings dB(A)
15.09.2022	22:00 - 23:00		56.5
15.09.2022	23:00 - 00:00	ie ie	55.0
16.09.2022	00:00 - 01:00		53.3
16.09.2022	01:00 - 02:00	¥	52.6
16.09.2022	02:00 - 03:00		51.4
16.09.2022	03:00 - 04:00		50.2
16.09.2022	04:00 - 05:00		49.0
16.09.2022	05:00 - 06:00	×	48.6
Day Ti	me	Leq (Day)	62.5
Day Time		Day Time Limit	65 dB(A)
Night T	ime	Leq (Night)	52.9
wight time		Night Time Limit	55 dB(A)

Note:

Limit as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000, Schedule (as amended till 10/08/2017 vide.S.O. 2555(E)) Ambient Air Quality Standards in respect of Noise in Commercial Area Daytime 65 dB(A) & Night Time 55 dB(A)

1.Day time shall mean from 6.00 a.m. to 10.00 p.m.

2. Night time shall mean from 10,00 p.m. to 6.00 a.m

INTERPRETATION:

The Noise level were monitored as per IS 9989-1981 and CPCB Protocol for Ambient Noise Level Monitoring, Jul 2015.

In the following Noise results, The Day time and Night time Noise levels meets the NAAQS for Noise levels for Commercial Area (THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000) (as amended till 10/08/2017 vide.S.O.2555(E))

*** End of Report ***
Page 2 of 2

V. Corp Verified By Karthick.V Senlor Chemist









TEST REPORT

POLLUCARE ENGINEERS INDIA PVT.LTD., (Laboratory Services Division)

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Web: www.pollucareinida.com

Report No	: PCEI/TR-N-5653	Report	Date	21.09.2022
Discipline	: Chemical	Group		: Atmospheric Pollution
Issued to	: M/S. Chennal Metro Rail Limited CMRL Depot Admin Building,			
	Poonamaile High Road, Koyambedu, Chennai -600 107.	0		
Project Name	CMRL/CON/PHASE-II/C4/UG-1/2022			
Sampling Method	IS 9989 - 1981 (RA 2008)			
Sampled by	Laboratory Representative - Mr. Muthukumar			
Sample Description	Noise Monitoring	Sample	Reference No	PCEI/N-176-09-22
Category of Area	: Commercial Area	Sample	Received On	16.09.2022
Equipment Installed	: 1.5 m from Ground Level	Test Co	mmenced On	16.09.2022
Sampling Date	15.09.2022 to 16.09.2022	Test Co	mpleted On	21.09.2022
Sampling Location	: Light House Location			

EQUIPMENT USED FOR SAMPLING

Equipment Name	Make/Model	Equipment ID	Calibration Date	Due Date
Sound Level Meter with Data Logger	Lutron/SL-4023SD	PCEI/EQ/45	07.02,2022	06.02.2023

Sampling Date	Sampling Time	Day Time Readings dB(A)	Night Time Readings dB(A)
15.09.2022	07:00 - 08:00	60.3	TALE :
15.09.2022	08:00 - 09:00	61.0	and the last of
15,09.2022	09:00 - 10:00	59.3	
15.09.2022	10:00 - 11:00	62.8	
15.09.2022	11:00 - 12:00	64.3	
15.09.2022	12:00 - 13:00	64,9	
15.09.2022	13:00 - 14:00	65.5	ş
15.09.2022	14:00 - 15:00	62.0	
15.09.2022	15:00 - 16:00	61.7	
15.09.2022	16:00 - 17:00	64.6	
15.09.2022	17:00 - 18:00	65.8	
15.09.2022	18:00 - 19:00	61.0	2
15.09.2022	19:00 - 20:00	59.9	
15.09.2022	20:00 - 21:00	58.9	
15.09.2022	21:00 - 22:00	58.5	

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V. Way Karthick.V Senior Chemist



Authorised Signatory Selvi.S Technical Manager

Note: 1. The test results are only to the sample submitted for test, 2. Any Correction of the test report in full or part shall invalidate the report 3. Submit whose reclined in 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstances lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test pour ways.