



# महाराष्ट्र मेट्रो रेल कॉर्पोरेशन लिमिटेड MAHARASHTRA METRO RAIL CORPORATION LIMITED

(भारत सरकार आणि महाराष्ट्र शासनाचा संयुक्त उपक्रम)

Joint Venture of Govt. of India & Govt. of Maharashtra  
PUNE METRO RAIL PROJECT

Maha-Metro/PMRP/UG-04/2025/ १६१

Date: 01.09.2025

To,

The Additional Director(s),

Ministry of Environment and Forest and Climate Change

Regional Office (WCZ), Ground Floor,

East Wing, New Secretariat Building,

Civil Line, Nagpur, Maharashtra- 440001

**Sub:** Submission of Environmental Clearance Compliance Report (October 2024 to March 2025) for construction project of Swargate Multi Modal Transit Hub at, Final Plot no.499, T. P. Scheme no.03, Swargate, by "Maharashtra Metro Rail Corporation Limited"

**Ref:** No. EC Identification No. – EC22B038MH168241 File No. - SIA/MH/MIS/181846/2020 dated 08/07/2022.

Respected Sir,

With reference to the above subject, we are submitting the current Status of our construction work, monitoring reports, data sheet and point wise compliance status to various stipulation laid down by the Ministry of Environment and Forest in its. EC Identification No. – EC22B038MH168241 File No. - SIA/MH/MIS/181846/2020 dated 08/07/2022 along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you.

  
(Amolkumar Moholkar)

Chief Project Manager / UG-04  
Maha-Metro, Pune.

**Encl:**

Part A: Data Sheet

Part B: Current Status of Construction Work

Part C: Point wise compliance status

Part D: Annexures

**SITE OFFICE: PUNE**

**Compliance to Stipulated Conditions in  
Environment Clearance**

**(October 2024 to March 2025)**

**FOR**

**“Swargate multi modal transit hub”**

**At**

**Final Plot no. 499, T. P. Scheme no. 03,  
Swargate, Tal Haveli, Dist Pune**

**By**

**“Maharashtra Metro Rail Corporation Limited”  
(Pune Metro Rail Project)**

**For Submission to:**

**Ministry of Environment, Forest & climate change  
(MoEF&CC)**

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### PART A DATA SHEET

1.	Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)		:	8(a) Building and Construction projects
2.	Name of the project		:	Swargate Multi Modal Transit Hub by <b>Maharashtra Metro Rail Corporation Limited.</b>
3.	Clearance letter (s) / OM No. and Date		:	Environment clearance EC Identification No. EC22B038MH168241 & File No.- SIA/MH/MIS/181846/2020 Dated 08/07/2022
4.	Location		:	
	a.	District (S)	:	Pune
	b.	State (s)	:	Maharashtra
	c.	Latitude/ Longitude	:	Latitude: 18°29.58.21'N, Longitude 73° 51.28.17'E
5.	Address for correspondence		:	
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers)	:	<b>Swargate Multi Modal Transit Hub by "Maharashtra Metro Rail Corporation Limited"</b> Swargate Multi Modal Transit Hub, Final Plot no. 499, T. P. Scheme no. 03, Swargate, Tal Haveli, Dist Pune
	b.	Address of Project: Engineer/Manager (with pin code/ Fax numbers)	:	<b>Swargate Multi Modal Transit Hub by "Maharashtra Metro Rail Corporation Limited"</b> Swargate Multi Modal Transit Hub, Final Plot no. 499, T. P. Scheme no. 03, Swargate, Tal Haveli, Dist. Pune
6.	Salient features		:	
	a.	of the project	:	Environment Clearance for Construction Project by. Maharashtra Metro Rail Corporation Limited
	b.	of the environmental management plans	:	1. Sewage treatment Plant: 1 No. of STP of capacity 270 KLD is proposed at site. 2. Rain water harvesting: Rain water will be reused with RWH Tank. 3. Solid Waste Management a) Biodegradable waste is treated in OWC b) Dry waste is collected by Authorized vendor c) E-waste is collected by Authorized dealer d) STP sludge is used as manure.
7.	Breakup of the project area		:	

	a.	Submergence area forest & non-forest	:	Project is located in non-forest area
	b.	Others	:	Total Plot Area (sq. m): 28,000.00 Total BUA area (sq. m.): 98,803.16
8.		Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers /artisan	:	Not Applicable.
	a.	SC, ST/Adivasis	:	Not Applicable
	b.	Others (Please indicate whether these Figures are based on any scientific and systematic survey carried out or only provisional figures, if a Survey is carried out give details and years of survey)	:	Not Applicable
9.		Financial details	:	
	a.	Project cost as originally planned and subsequent revised estimates and the year of price reference:		
	1.	Estimated Cost of the Project	:	Rs. 255 Crores
	b.	Allocation made for environmental management plans with item wise and year wise Break-up.	:	Cost earmarked for (Environmental Management Plan (EMP) will be,  <b>During Construction phase:</b> Total Capital cost 32.11 Lakhs Total O & M cost: 1.08 Lakhs
	c.	Benefit cost ratio / Internal rate of Return and the year of assessment	:	<b>During operational Phase:</b> Total Capital cost 303.26 Lakhs Total O & M cost: 52.42 Lakhs
	d.	Whether (c) includes the Cost of environmental management as	:	

		shown in the above.					
	e.	Actual expenditure incurred on the project so far	:	302.34 Cr			
	f.	Actual expenditure incurred on the environmental management plans so far		17.70 Lakhs			
10.	Forest land requirement		:	Not Applicable			
	a.	The status of approval for diversion of forest land for non-forestry use	:	Not Applicable			
	b.	The status of clearing felling	:	Not Applicable			
	c.	The status of compensatory afforestation, if any	:	Not Applicable			
	d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	Not Applicable			
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information		:	Out of 338 nos. of trees 247 nos. of trees are already transplanted  Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot & remaining 77 nos. of trees are in PMPML plot.			
12.	Status of construction			<b>Sr. No.</b>	<b>No. of Buildings</b>	<b>Configuration</b>	<b>Completed Work Status as on March 2025</b>
				1	Phase 2	3D(Basement) + CC (Concourse level) + UC (Upper concourse) +LG (Lower ground) + Lower ground + G(Ground) + 5	75 % of work is completed at site.

					floor (3B = 2 B for metro + 1 B)	
	a.	Date of commencement (Actual and/or planned)	:	06/02/2023		
	b.	Date of completion (Actual and/or planned)	:	31/01/2026		
13.	Reasons for the delay if the Project is yet to start		:	NA		
14	Dates of site visits					
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	:	NA		
	b.	Date of site visit for this monitoring report	:	Not Applicable		
15.	Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)		:	Not Applicable		
	(The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letters issued subsequently.)		:	Agreed		

## **PART B :CURRENT STATUS OF WORK**

<b>Sr. No.</b>	<b>No. of Buildings</b>	<b>Configuration</b>	<b>Completed Work Status as on March 2025</b>
1	Phase 2	3D (Basement) + CC (Concourse level) + UC (Upper concourse) + LG (Lower ground) + Lower ground + G(Ground) + 5 floor (3B = 2 B for metro + 1 B )	75% of work is completed at site.



## PART C - ENVIRONMENT CLEARANCE COMPLIANCE REPORT

Point wise compliance to various stipulations laid down by the MoEF&CC in Environment Clearance Letter vide No. SIA/MH/MIS/181846/2020 dated 08/07/2022 are as follows:

<b><u>Specific Conditions:</u></b>		
<b>A. SEAC Condition: -</b>		
1.	Committee noted that, there was some complaint received with respect to project under consideration. PP explains the same and ensures that, the complaint is not pertaining to the project under consideration. Accordingly, to submit the undertaking regarding there is no legal case pending pertaining to the project under consideration	We hereby submit an undertaking that no legal case is pending to the project under consideration. Undertaking related is as attached <b>Annexure 5</b>
2.	PP to submit the excavation management plan.	Total Excavation and its management are attached as <b>Annexure 6</b>
3.	PP to submit the tree transplantation plan along with photographs.	Total 247 trees are transplanted till date, survival report along with photograph is submitted to the committee. 247 Nos. of trees are transplanted at ARAI tekdi, NOC for tree transplantation is obtained from PMC. Details were submitted to during SEIAA meeting.
4.	It is noted that, PP & Environment consultant stated that, for this project RG is not required. PP to submit the specific local rules, norms for clarifying the same.	Relevant section under UDCPR, 2020 related RG area is attached as <b>Annexure 7</b>
<b>B. SEIAA Condition: -</b>		
1.	PP to keep open space unpaved so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types & strength to increase the water permeable area as well as to allow effective fire tender movement.	Noted.

2.	PP to achieve at least 5% of total energy requirement from solar/other renewable sources.	Noted.
3.	PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF&CC vide F.No.22-34/2018-IA.III dt.04.01.2019.	Noted. We will follow the conditions mentioned in the Office Memorandum issued MoEF&CC vide F.No.22-34/2018-IA.III dt.04.01.2019.
4.	SEIAA after deliberation decided to grant EC for FSI-48025.05 m <sup>2</sup> , Non FSI- 50778.11 m <sup>2</sup> and Total BUA-98803.16 m <sup>2</sup> (Plan approval-Zone 7/623, dated-12.05.2022)	Noted.
<b>General condition</b>		
<b>A. Construction Phase</b>		
1	The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.	The solid waste generated at site will be segregated as construction debris and other recoverable material such as steel, plastic, glass wastes etc
2	Disposal of muck, Construction spoils, including bituminous material during construction phase should not any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.	<b>Muck Disposal Plan Prepared as follows: -</b> <ul style="list-style-type: none"> <li>• Calculation of muck (Soil &amp; rock) generated from MMTH building is 2,53,262 cum</li> <li>• Quantity of Muck excavated (31.07.2021) – 1,67,000 cum</li> <li>• Quantity of muck utilized in project activities-</li> <li>• Reuse at Agriculture College of for road work- 5,000 cum</li> <li>• Reuse of soil for filling near PMPML building- 18,000 cum</li> <li>• Excavated rocks for conversion to aggregate – 44,653 cum</li> <li>• Total Quantity used = 67,653</li> <li>• Balance Muck = 99,347 to be transported.</li> <li>• Ownership of Land and Consent of land owner – Three land parcels have been identified for muck disposal</li> </ul>

		<ul style="list-style-type: none"> <li>• Dumping Yard 1 – Owner Mr. Kisan Sarjerao Jagtap, Gat no. 12/2A, Post Saswad, Tal-Purander, Dist – Pune. Plot area – 19,753 Sq.m. Muck Disposed 59,259 cum</li> </ul>
3	Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.	No any hazardous waste was generated during construction phase
4	Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured	Regular supply of Drinking water is made available at site and toilets are provided at site for workers. Solid waste generated is collected separately for dry & wet waste & handed over to authorized vendor
5	Arrangement shall be made that waste water and storm water do not get mixed.	Noted. We will not mixed wastewater and storm water.
6	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.	Gunny bags are wrapped on columns and ponding will be done to reduce water usage while curing. We will use pre-mixed concrete.
7	The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.	No ground water extraction is carried out
8	Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.	Noted. We are not drawing any ground water.
9	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.	Low flow fixtures are proposed for toilet flushing and drinking in operation phase

10	The Energy Conservation Building code shall be strictly adhered to.	Noted, we will adhere to Energy Conservation Building code
11	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Noted.
12	Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.	Noted.
13	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Soil testing monitoring report is attached as <b>Annexure 2</b> We are not drawing any ground water.
14	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.	We will follow all the conditions. Existing 142 number of trees are present on site
15	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.	Noted. We have provided DG set of capacity 125 KVA, 180 KVA, 62.5 KVA for construction Phase, we have use low Sulphur diesel type DG set.
16	PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance	We will follow all the conditions. Existing 142 number of trees are present on site

17	Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages.	Vehicles will be operated during non-peak hours. Standard of construction vehicles will be checked regularly including PUC certificate.
18	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB	Adequate measures shall be made to reduce ambient air and noise level during construction phase.  Air and Noise Monitoring reports are enclosed as an <b>Annexure 2</b> .
19	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.	Proposed DG set are with acoustic canopy & confirming the rules made under the Environment (Protection) Act, 1986.
20	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings by a separate environment cell/designated person.	Construction work is supervised by Project Engineer and qualified supervisors

<b>B. Operation Phase</b>		
1	<p>The solid waste generated should be properly collected and segregated. b) Wet waste should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.</p>	<p>Solid waste will be collected separately as dry &amp; wet waste.</p>
2	<p>E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.</p>	<p>E-Waste will be handed over to authorized vendor.</p>
3	<p>a) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. b) PP to give 100% treatment to sewage /Liquid waste and explore the possibility to recycle at least 50% of water, Local authority should ensure this,</p>	<p>The STP of capacity 270 KLD is proposed at site, to treat the sewage generation of 257 KLD.</p> <p>Sewage Treatment Plant (STP) will be certified by an independent expert.</p> <p>We will submit the document while obtaining Consent to Operate.</p>
4	<p>Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to</p>	<p>The STP of capacity 270 KLD is proposed at site, to treat the sewage generation of 257 KLD.</p> <p>Green Belt Development details as follow: -</p>

	occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.	<table><tr><th>Tree Details</th></tr><tr><td>Out of 338 nos. of trees 247 nos. of trees are already transplanted</td></tr><tr><td>Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot</td></tr><tr><td>14 nos. of trees will be retained</td></tr><tr><td>Proposed nos. of Trees to be planted on site: 350 nos.</td></tr></table>	Tree Details	Out of 338 nos. of trees 247 nos. of trees are already transplanted	Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot	14 nos. of trees will be retained	Proposed nos. of Trees to be planted on site: 350 nos.
Tree Details							
Out of 338 nos. of trees 247 nos. of trees are already transplanted							
Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot							
14 nos. of trees will be retained							
Proposed nos. of Trees to be planted on site: 350 nos.							
5	The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.	Noted.					
6	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	<div>1. Sufficient public Parking – Parking statement for Metro parking and commercial parking is attached herewith; which is adequate as per the norms and ridership data.</div> <div>2. Movable or fixed parking system – Maha Metro is proposing daily movable parking system, which would be pay and park system.</div> <div>3. Tower Parking - Stack Parking is Proposed for the entire basement.</div> <div>4. Subway Crossing and different access to parking - Details drawings has been attached herewith:</div>					
7	PP to provide adequate electric charging points for electric vehicles (EVs).	Noted					
8	Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/Agriculture Dept.	<div>Tree details are given below:</div> <table><tr><th>Tree Details</th></tr><tr><td>Out of 338 nos. of trees 247 nos. of trees are already transplanted</td></tr><tr><td>Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot</td></tr><tr><td>14 nos. of trees will be retained</td></tr><tr><td>Proposed nos. of Trees to be planted on site: 350 nos.</td></tr></table>	Tree Details	Out of 338 nos. of trees 247 nos. of trees are already transplanted	Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot	14 nos. of trees will be retained	Proposed nos. of Trees to be planted on site: 350 nos.
Tree Details							
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Out of remaining 91 nos. of trees only 14 nos. of trees are located within MMTH plot remaining 77 nos. of trees are in PMPML plot							
14 nos. of trees will be retained							
Proposed nos. of Trees to be planted on site: 350 nos.							

9	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Environmental Management Cell is being supervised by Project Engineer and qualified supervisors.
10	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes.	Cost earmarked for (Environmental Management Plan (EMP) will be, <b>During Construction phase:</b> Total Capital cost 32.11 Lakhs Total O & M cost: 1.08 Lakhs <b>During operational Phase:</b> Total Capital cost 303.26 Lakhs Total O & M cost: 52.42 Lakhs
11	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at parivesh.nic.in	Advertisement copy in English & Marathi newspaper is attached as <b>Annexure 3</b>
12	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.	Noted & agreed.
13	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom	No any suggestions/representations, were received while processing the proposal from the concerned Municipal Corporation and the local NGO.



	suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	
14	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely: SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The screenshot of EC uploaded on website is attached as <b>Annexure 4</b> .  <b>Websitelink:-</b> <a href="https://www.punemetrorail.org/Report#">https://www.punemetrorail.org/Report#</a>
<b>C. General EC Condition</b>		
1	PP has to strictly abide by the conditions stipulated by SEAC & SEIAA.	Noted. We shall abide by the condition stipulated by SEAC & SEIAA
2	If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.	We have Obtained consent to establish having Consent order no. For Format 1.0/CC/UAN No.0000143082/CE/2302000349 dated 06/02/2023.
3	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has	Environmental clearance obtained vide letter No. SIA/MH/MIS/181846/2020 dated 08/07/2022 Please refer <b>Annexure 1</b> .

	been started without obtaining environmental clearance.	
4	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Agreed
5	The environmental statement for each financial year ending 31st March in Form-Vas is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Agreed
6	No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SELAA as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Agreed.

7	<p>This environmental clearance is issued subject to obtaining NOC from Forestry &amp; Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable &amp; this environment clearance does not necessarily implies that Forestry &amp; Wild life clearance granted to the project which will be considered separately on merit.</p>	<p>No Forest or Wildlife clearance is applicable for the project.</p>
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## **PART D – ANNEXURES**



**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), Maharashtra)**

To,

The Addl Chief Project Manager

MAHARASHTRA METRO RAIL CORPORATION LIMITED (PUNE  
METRO RAIL PROJECT)

Office of the Pune Metro rail project, 101, The orion, opposite Don Bosco  
Youth Centre Koregaon Park, Pune 411001 -411001

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/MH/MIS/181846/2020 dated 04 Nov 2020. The particulars of the environmental  
clearance granted to the project are as below.

1. EC Identification No.	EC22B038MH168241
2. File No.	SIA/MH/MIS/181846/2020
3. Project Type	New
4. Category	B2
5. Project/Activity including Schedule No.	8(a) Building and Construction projects
6. Name of Project	Swargate multi modal transit hub
7. Name of Company/Organization	MAHARASHTRA METRO RAIL CORPORATION LIMITED (PUNE METRO RAIL PROJECT)
8. Location of Project	Maharashtra
9. TOR Date	N/A

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 08/07/2022

(e-signed)  
**Manisha Patankar Mhaiskar**  
**Member Secretary**  
**SEIAA - (Maharashtra)**

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

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## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/MIS/181846/2020  
Environment & Climate  
Change Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya, Mumbai- 400032.

To  
Maharashtra Metro Rail Corporation Limited  
(PUNE METRO RAIL PROJECT),  
T. P. Scheme no. – 03, Final Plot no. – 499,  
Swargate, Pune

Subject : Environment Clearance for Swargate Multi Modal Transit Hub at T. P.  
Scheme no. – 03, Final Plot no. – 499, Swargate, Pune by “Maharashtra  
Metro Rail Corporation Limited” (PUNE METRO RAIL PROJECT)

Reference : Application no. SIA/MH/MIS/181846/2020

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-3 in its 123<sup>rd</sup> meeting under screening category 8 (a) B2 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 244<sup>rd</sup> (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

Proposal Number	SIA/MH/MIS/181846/2020	
Name of Project	Swargate Multi Modal Transit Hub at Swargate Pune by “Maharashtra Metro Rail Corporation Limited”	
Project category	8a (B2)	
Type of Institution	Government	
Project Proponent	Name	Swargate Multi Modal Transit Hub by “Maharashtra Metro Rail Corporation Limited”
	Regd. Office address	Metro house, 28/2 Anand Nagar, C K Naidu Marg, Civil Lines, Nagpur, Maharashtra, India, 440001
	Contact number	9573908825
	e-mail	rajesh.jain@mahametro.org
Consultant	sd Engineering Services Pvt. Ltd. NABET/EIA/1922/RA0136	
Applied for	Fresh EC	
Details of previous EC	NA	
Location of the project	T. P. Scheme no. – 03, Final Plot no. – 499, Swargate, Pune	
Latitude and Longitude	Latitude - 18°29'58.21 »N, Longitude 73°51'28.17 »E	
Total Plot Area (m2)	28,000.00	
Deductions (m2)	-	
Net Plot area (m2)	28,000.00	
Proposed FSI area (m2)	45,390.91	
Proposed non-FSI area (m2)	53,412.25	
Proposed TBUA (m2)	98,803.16	

TBUA (m2) approved by		-			
Planning Authority till date		Pune Municipal Corporation			
Ground coverage (m2) & %		8,539.87 (30.49%)			
Total Project Cost (Rs.)		Rs. 255 Cr			
CER as per MoEF & CC circular dated 01/05/2018		Activity	Location	Cost (Rs.)	Duration
		NA	NA	NA	NA
		<b>GRAND TOTAL</b>			
Details of Building Configuration: <Please use following legends: Floor = F , Parking = Pk, Podium = Po, Stilt = St, Lower Ground = LG, Upper Ground = UG, Basement = B, Shops = Sh>					Reason for Modification / Change
Previous EC / Existing Building		Proposed Configuration			
Buildin g Name	Configuration	Height (m)	Buildi ng Name	Configuration	Height (m)
-	-	-	Phase 2	3B (Basement) + CC (Concourse level) + UC (Upper Concourse) + LG (Lower Ground) + G (Ground) + 5 floors (3B = 2B for Metro + 1B)	29.85
Total number of tenements		Retail – 67 F & B units -5 Multiplex – 8 screens			
Water Budget	Dry Season (CMD)		Wet Season (CMD)		
	Fresh Water	152 Domestic + 23 cooling tower make up	Fresh Water	152 Domestic	
	Recycled (Gardening)	37 Gardening	Recycled (Gardening)	0	
	Swimming Pool	0	Swimming Pool	0	
	Flushing	120 flushing + 77 cooling tower make up	Flushing	120 flushing + 56 cooling tower make up	
	Total	409	Total	328	
	Waste water generation	257	Waste water generation	257	
Water Storage Capacity for Firefighting / UGT	Fire UG tank – 125 x 2 Fire Overhead tank – 2 Nos. 20cum Domestic Tank – 152 KL Flushing Tank – 117				
Source of water	Local Body				
Rainwater Harvesting (RWH)	Level of the Ground water table:		2.55 m BGL		
	Size and no of RWH tank(s) and Quantity:		1 tank of capacity 8m x 5m x 5m		
	Quantity and size of recharge pits:		-		
	Details of UGT tanks if any:				

Sewage and Wastewater	Sewage generation in CMD:	257			
	STP technology:	MBBR			
	Capacity of STP (CMD):	270			
Solid Waste Management during Construction Phase	Type	Quantity (kg/d)	Treatment / disposal		
	Dry waste:	9	Collected by Ghantagadi		
	Wet waste:	6	Collected by Ghantagadi		
	Construction waste	Excavated material from proposed buildings.	Top soil will be used for landscaping and part excavated material used within site		
Solid Waste Management during Operation Phase	Type	Quantity (kg/day)	Treatment / disposal		
	Dry waste:	2164	Handed over to authorized Recyclers		
	Wet waste:	2480	Organic Waste Convertor		
	Hazardous waste:	DG Spent oil	Handed over to authorized Recyclers		
	Biomedical Waste	NA	NA		
	E-Waste	31.3	Handed over to Authorised Vendor		
	STP Sludge (dry)	21 Kg/day	Will be used as manure		
Green Belt Development	Total RG area (m <sup>2</sup> ):	Provided green area = 4,300			
	Existing trees on plot:	142			
	Number of trees to be planted:	350			
	Number of trees to be cut:	0			
	Number of trees to be transplanted:	337 (Already transplanted 196 + Trees to be transplanted 141)			
Power requirement:	Source of power supply:	MSEDCL			
	During Construction Phase (Demand Load):	150 KW			
	During Operation phase (Connected load):	6428 KW			
	During Operation phase (Demand load):	4507 KW			
	Transformer:	1600 KVA X 4 Nos.			
	DG set:	750 KVA X 7 Nos + 630 KVA X 2 Nos			
	Fuel used:	HSD			
Details of Energy saving	Solar PV system– 5.02% Total Energy Saving – 20%				
Environmental Management plan budget during Construction Phase	Type	Details		Cost	
	Capital	Air, water, land, biological environment and socioeconomic environment		32.11 Lakh	
	O&M	Air, water and Noise Monitoring		1.08 Lakh/annum	
Environmental Management	Component	Details		Capital (Rs.in Lacs)	O&M (Rs.in Lacs/Y)



plan Budget during Operation phase	Storm water	-	-	-
	Sewage treatment	STP	41.96	16.72
	Water treatment	-	-	-
	RWH	RWH tanks	16.00	1.00
	Swimming Pool	-	-	-
	Solid Waste	OWC	42.50	11.84
	Hazardous waste	-	-	-
	E waste	Handed over to Authorized Vendor	-	-
	Green belt development	Gardening	78.80	4.27
	Energy saving	Other measures	40	2
		Renewable energy	84	6
	Environmental Monitoring	From MoEF&CC approved lab	-	10.59
	Disaster Management	Construction Phase	86.50	1.20
		Operation Phase	127.95	17.67
	Sewage Pumping Cost	-	-	-
Traffic Management	Type	Required as per DCR	Actual Provided	Area per parking (m <sup>2</sup> )
	4-Wheeler	352	352	Area provided for parking is 24,161.72 m <sup>2</sup>
	2-Wheeler	857	857	
	Bicycles	705	705	

3. Proposal is a new construction project. Proposal has been considered by SEIAA in its 244<sup>th</sup> (Day-2) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

**Specific Conditions:**

**A. SEAC Conditions-**

1. Committee noted that, there was some complaint received with respect to project under consideration. PP explains the same and ensures that, the complaint is not pertaining to the project under consideration. Accordingly, to submit the under taking regarding there is no legal case pending pertaining to the project under consideration.
2. PP to submit the excavation management plan.
3. PP to submit the tree transplantation plan along with photographs.
4. It is noted that, PP & Environment consultant stated that, for this project RG is not required. PP to submit the specific local rules, norms for clarifying the same.

**B. SEIAA Conditions-**

1. PP to keep open space unpaved so as to ensure permeability of water. However, whenever paving is deemed necessary, PP to provide grass pavers of suitable types &

strength to increase the water permeable area as well as to allow effective fire tender movement.

2. PP to achieve at least 5% of total energy requirement from solar/other renewable sources.
3. PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.
4. SELAA after deliberation decided to grant EC for – FSI- 48025.05 m<sup>2</sup>, Non FSI- 50778.11 m<sup>2</sup> and Total BUA- 98803.16 m<sup>2</sup> (Plan approval-Zone 7/623, dated- 12.05.2022).

**General Conditions:**

**a) Construction Phase :-**

- I. The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.
- II. Disposal of muck, Construction spoils, including bituminous material during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in the approved sites with the approval of competent authority.
- III. Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
- IV. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
- V. Arrangement shall be made that waste water and storm water do not get mixed.
- VI. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.
- VII. The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.
- VIII. Permission to draw ground water for construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.
- IX. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- X. The Energy Conservation Building code shall be strictly adhered to.
- XI. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- XII. Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.
- XIII. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

- XIV. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.
- XV. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
- XVI. PP to strictly adhere to all the conditions mentioned in Maharashtra (Urban Areas) Protection and Preservation of Trees Act, 1975 as amended during the validity of Environment Clearance.
- XVII. Vehicles hired for transportation of Raw material shall strictly comply the emission norms prescribed by Ministry of Road Transport & Highways Department. The vehicle shall be adequately covered to avoid spillage/leakages.
- XVIII. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
- XIX. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during construction phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel is preferred. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- XX. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings by a separate environment cell /designated person.

**B) Operation phase:-**

- I. a) The solid waste generated should be properly collected and segregated. b) Wet waste should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. c) Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.
- II. E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
- III. a) The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. b) PP to give 100 % treatment to sewage /Liquid waste and explore the possibility to recycle at least 50 % of water, Local authority should ensure this.

- IV. Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line. No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and made functional including water requirement.
- V. The Occupancy Certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
- VI. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- VII. PP to provide adequate electric charging points for electric vehicles (EVs).
- VIII. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- IX. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- X. Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes.
- XI. The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at **Error! Hyperlink reference not valid.**[parivesh.nic.in](http://parivesh.nic.in)
- XII. Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- XIII. A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- XIV. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

**C) General EC Conditions:-**

- I. PP has to strictly abide by the conditions stipulated by SEAC & SEIAA.

- II. If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
  - III. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
  - IV. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
  - V. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
  - VI. No further Expansion or modifications, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to SEIAA for clearance, a fresh reference shall be made to the SEIAA as applicable to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
  - VII. This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.
  5. This Environment Clearance is issued purely from an environment point of view without prejudice to any court cases and all other applicable permissions/ NOCs shall be obtained before starting proposed work at site.
  6. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.
  7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended from time to time.
  8. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the

Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

9. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1<sup>st</sup> Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Manisha Patankar-Mhaishar  
(Member Secretary, SEIAA)  
22/6/2022

Copy to:

1. Chairman, SEIAA, Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Pune.
6. Commissioner, Pune Municipal Corporation
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

Signature Not Verified

Digitally signed by Manisha  
Patankar Mhaiskar  
Member Secretary

Date: 7/8/2022 6:38:13 AM



## AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

### TEST REPORT

Date – 12/02/2025

Sample/Report No.	GE/LAB/AAQ/JKIPL1			
Name Of Customer	M/s. J Kumar Infra Project Ltd			
Address Of Customer	ahametro, P1UG - 04, Swargate, Pune			
Sample Drawn By	Vendor on 05/02/2025	Sample Received On	06/02/2025	
Start of Analysis	07/02/2025	End Of Analysis	09/02/2025	
Monitoring For	Ambient Air Monitoring	Sampling Location	Near RMC	
Sampling Duration	24 Hrly	Receptor Height	2.00 meter from G.L.	
Average Wind Speed	8.6 Km/Hr	Wind Direction	From EW	
Ambient Temperature	Max- 34.3 <sup>0</sup> C, Min-16.5 <sup>0</sup> C	Relative Humidity	Max- 53.2%, Min- 45.7%	
Limits	National Ambient Air Quality Standards Vide GSR 826(E)16.11.2009			
Parameters	Unit	Result	Limits	Methods of Analysis
General Parameters				
Particulate matter less than 10 micron	µg/m <sup>3</sup>	95.32	100	EPA/625/R-96/010a(Compendium Method IO-2.1): 2017
Particulate matter less than2.5 micron	µg/m <sup>3</sup>	55.86	60	USEPA Method Aerosol Science Tech FRM 35(4)339-342: 2017
Sulphur Dioxide	µg/m <sup>3</sup>	40.75	80	IS 5182 ( part II ) 2001,Reaff: 2017
Oxides of Nitrogen	µg/m <sup>3</sup>	44.91	80	IS 5182 ( part VI ) 2006,Reaff:2017
Carbon Monoxide	mg/m <sup>3</sup>	1.46	2.0	IS 5182 ( part X ) 1999,Reaff: 2014
Lead	µg/m <sup>3</sup>	BDL	1.0	IS 5182 (part XXII) 2004,Reaff:2014
Ozone	µg/m <sup>3</sup>	31.62	100	IS 5182 (part IX) 1974, Reaff: 2014
Ammonia	µg/m <sup>3</sup>	BDL	400	APHA 2nd Edition Method No. 401
Benzene	µg/m <sup>3</sup>	BDL	5	IS 5182 (part XI) 2006, Reaff- 2017
Benzo (a) Pyrene - Particulate Phase only	ng/m <sup>3</sup>	BDL	1	IS 5182 (Part 12):2004,Reaff: 2014
Arsenic	ng/m <sup>3</sup>	BDL	6	APHA 2nd Edition Method No. 822
Nickel	ng/m <sup>3</sup>	BDL	20	APHA 2nd Edition Method No. 822

• BDL: - Below Detection Limits

Equipment Used: - Fine Dust Sample, Sr.No.FPS 26-F-22 , (Make: Enviro Earth Services), Model:EEC-115MFC), Date of Calibration: - 14/11/2024, Next Calibration Due: - 13/11/2025,  
Respirable Dust Sample, Sr. No. 224-I-21,(Make: Enviro Instruments), Model: ECC-RDS-405)  
Date of Calibration: - 14/11/2024, Next Calibration Due: - 13/11/2025

For **GREEN ENVIRO**




**Authorized Signatory**

**Note –** 1.Results relate only to the sample tested.

2. Test report shall not be reproduced except in full, without written approval of the laboratory

3. This report, in full or in part, shall not be used for advertising or legal action.

**---End of the Report---**





# GREEN ENVIRO

Environmental Consultancy & Laboratory  
Recognition by EPA- MoEF & CC (Govt. of India)



ISO 9001:2015 Certified  
ISO 14001:2015 Certified  
ISO 45001:2018 Certified

## AMBIENT NOISE MONITORING ANALYSIS REPORT

CLIENT'S NAME		M/s. J Kumar Infra Project Ltd					
CLIENT'S ADDRESS		ahametro, P1UG - 04, Swargate, , Pune					
REPORT NO		GE/LAB/ANM/JKIPL1		DATED		12/02/2025	
LAB REFERENCE NO		GE/LAB/ANM/JKIPL01		Sampling Location		Near RMC	
RESULTS OF ANALYSIS							
Date	Day Time	Result dB(A)	Date	Night Time	Result dB(A)	Unit	Method Of Analysis
05/02/2025	10:20	61.4	06/02/2025	02:20	53.9	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	11:20	62.9	06/02/2025	03:20	52.9	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	12:20	62.3	06/02/2025	04:20	54.0	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	13:20	61.7	06/02/2025	05:20	55.0	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	14:20	63.0	06/02/2025	06:20	57.0	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	15:20	62.5	06/02/2025	07:20	58.7	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	16:20	61.9	06/02/2025	08:20	52.1	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	17:20	62.8	06/02/2025	09:20	59.9	dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	18:20	63.2				dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	19:20	64.1				dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	20:20	62.0				dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	21:20	57.8				dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	22:20	55.7				dB(A)	IS 9989:1981 (RA 2008)
05/02/2025	23:20	54.3				dB(A)	IS 9989:1981 (RA 2008)
06/02/2025	00:20	54.0				dB(A)	IS 9989:1981 (RA 2008)
06/02/2025	01:20	53.1				dB(A)	IS 9989:1981 (RA 2008)
Day Time Leq		62.9		Lmax	79.7	Lmin	45.9
Night Time Leq		53.8		LDN	63.8		
Remark- Ambient Air Quality Standards in respect of Noise							
Category of Area/Zone		Limits in dB (A) Leq					
		Day Time			Night Time		
Commercial Area		65			55		

Equipment Used: Digital Noise level meter, Make: Metravi, Model: SL-4015 Sr. No. 160200511,  
Date of Calibration: - 14/11/2024, Next Calibration Due: - 13/11/2025

For **GREEN ENVIRO**



**Authorized Signatory**

**Note** – 1. Results relate only to the sample tested.

2. Test report shall not be reproduced except in full, without written approval of the laboratory

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**---End of the Report---**

## Noise Annexure

### THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000

*(The Principal Rules were published in the Gazette of India, vide S.O. 123(E), dated 14.2.2000 and subsequently amended vide S.O. 1046(E), dated 22.11.2000, S.O. 1088(E), dated 11.10.2002, S.O. 1569 (E), dated 19.09.2006 and S.O. 50 (E) dated 11.01.2010 under the Environment (Protection) Act, 1986.)*

#### SCHEDULE

(see rule 3(1) and 4(1))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
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.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

CLIENT'S NAME	M/s. J Kumar Infra Project Ltd
CLIENT'S ADDRESS	Mahametro, P1UG - 04, Swargate, Pune
Report No: - GE/LAB/W/JKIPL1	Dated:- 12/02/2025
Lab Reference No: GE/LAB/W/JKIPL01	Date Of Sampling: - 05/02/2025
Date Of Analysis: - 06/02/2025	Details Of Sample- Drinking Water - Office
Sample Collected By – Vendor	Sample Container – Sterilized Bottle

### RESULTS OF ANALYSIS

Parameter	Unit	Result	Standard : (IS 10500:2012)	Methods of Analysis
PH	Value	6.91	6.5 - 8.5	IS 3025 (Part II) 1983, Reaff:2017
Total Dissolved Solids	mg/lit	70.56	500	IS 3025 (Part XVI) 1984, Reaff: 2017
Colour	----	Colorless	Colorless	IS 3025 (Part IV ) 1983
Odour	----	Odorless	Odorless	APHA 23 <sup>rd</sup> Edition(Part 2150B)
Turbidity	NTU	< 0.35	< 5	IS 3025 (Part X) 1984, Reaff: 2017
Total Hardness	mg/lit	32.84	200	IS 3025 (Part XXI) 2009, Reaff: 2019
Calcium Hardness	mg/lit	18.31	Not Specified	IS 3025 (Part 40) 1991, Reaff: 2019
Magnesium Hardness	mg/lit	14.53	Not Specified	IS 3025 (Part 46) 1994, Reaff: 2019
Chloride	mg/lit	09.28	250	IS 3025 (Part 32) 1998, Reaff: 2019



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

Parameter	Unit	Result	Standard: (IS10500:2012)	Methods of Analysis
Sulphate	mg/lit	06.51	200	IS 3025 (Part 24) 1986, Reaff: 2019
Total alkalinity	mg/lit	71.54	200	IS 3025 (Part 23) 1986, Reaff: 2019
Fluoride	mg/lit	Absent	1.0	IS 3025 (Part 60) 2008
Nitrates	mg/lit	Absent	45	APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B)
Cyanide	mg/lit	Absent	0.05	APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)
Residual free chlorine	mg/lit	Absent	0.2	APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)
Copper	mg/lit	Absent	Max 0.05	IS:3025 (Part 42) 1992, Reaff: 2019
Mercury	mg/lit	Absent	Max 0.001	APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)
Cadmium	mg/lit	Absent	Max 0.003	APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)
Lead	mg/lit	Absent	Max 0.01	IS 3025 (Part 47) 1994, Reaff: 2019
Zinc	mg/lit	Absent	5.0	IS 3025 (Part 49) 1994, Reaff: 2019
Coliform Organism	mg/lit	Absent	Not Specified	IS: 1622 – 1981
Nickel	mg/lit	Absent	Max 0.02	IS 3025 (Part 54) 2003, Reaff: 2019,
Polychlorinated biphenyls	mg/lit	Absent	0.0005	APHA 23 <sup>rd</sup> Edition, (Part 6431 B)
Total chromium	mg/lit	Absent	Max 0.05	APHA 23 <sup>rd</sup> Edition, (Part 3111B)
Total arsenic	mg/lit	Absent	Max 0.01	APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)
Aluminium	mg/lit	Absent	Max 0.03	APHA 23 <sup>rd</sup> Edition, (Part 3111 D)
Ammonia(as total ammonia- N)	mg/lit	Absent	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)
Boron	mg/lit	Absent	Max 0.5	APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)
Silver	mg/lit	Absent	0.1	APHA 16 <sup>th</sup> Edition, (Part 324B)
Sulphide	mg/lit	Absent	0.05	APHA 23 <sup>rd</sup> Edition, (part 4500-D)
Mineral oil	mg/lit	Nil	0.05	IS 3025 (Part 39)





## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

Parameter	Unit	Result	Standard: (IS10500:2012)	Methods of Analysis
Anionic detergents	mg/lit	Nil	Max 0.2	APHA 23 <sup>rd</sup> Edition, (Part 5540 C)
Chloramines	mg/lit	Nil	Max 4.0	APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)
Selenium	mg/lit	Nil	Max 0.01	APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)
DDT	µg/lit	Nil	1.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
2,4 D	µg/lit	Nil	3.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Gamma-HCH(Lindane)	µg/lit	Nil	2.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Endosulfan	µg/lit	Nil	0.4	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Atrazine	µg/lit	Nil	2.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Reactive Silica	Ppm	Nil	0.02	APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D)
Sodium	mg/lit	BDL	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 3500 NaB)
Potassium	mg/lit	BDL	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)
Phosphorous	mg/lit	BDL	Not Specified	IS 3025 (Part 31) 1988, Reaff – 2019
Iron	mg/lit	Nil	0.3	IS 3025 (Part 53) 2003, Reaff – 2019
Most Probable Number	/100ml	Absent	0/100ml	IS: 1622-1981, Multiple tube technique
E. coli	/100ml	Absent	0-1/100ml	IS: 5887 -1 & IS15186:2002 Multiple tube technique
Total Coliform	/100ml	Absent	0-1/100ml	IS:1622-1981, Multiple tube technique
Total Viable Count	/100ml	Absent	0-1/100ml	IS: 5402 : 2012
Fecal	/100ml	Absent	0-1/100ml	APHA 23 <sup>rd</sup> Edition Part 9230- B, Page 9-118

● BDL: - Below Detection Limits

For **GREEN ENVIRO**




**Authorized Signatory** Page No.3

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## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

<b>CLIENT'S NAME</b>	M/s. J Kumar Infra Project Ltd
<b>CLIENT'S ADDRESS</b>	Mahametro, P1UG - 04, Swargate, Pune
Report No: - GE/LAB/W/JKIPL2	Dated:- 12/02/2025
Lab Reference No: GE/LAB/W/JKIPL02	Date Of Sampling: - 05/02/2025
Date Of Analysis: - 06/02/2025	Details Of Sample- Drinking Water –Safety Office
Sample Collected By –Vendor	Sample Container – Sterilized Bottle

### RESULTS OF ANALYSIS

Parameter	Unit	Result	Standard : (IS 10500:2012)	Methods of Analysis
PH	Value	6.76	6.5 - 8.5	IS 3025 (Part II) 1983, Reaff:2017
Total Dissolved Solids	mg/lit	58.31	500	IS 3025 (Part XVI) 1984, Reaff: 2017
Colour	----	Colorless	Colorless	IS 3025 (Part IV ) 1983
Odour	----	Odorless	Odorless	APHA 23 <sup>rd</sup> Edition(Part 2150B)
Turbidity	NTU	< 0.22	< 5	IS 3025 (Part X) 1984, Reaff: 2017
Total Hardness	mg/lit	20.87	200	IS 3025 (Part XXI) 2009, Reaff: 2019
Calcium Hardness	mg/lit	11.52	Not Specified	IS 3025 (Part 40) 1991, Reaff: 2019
Magnesium Hardness	mg/lit	09.35	Not Specified	IS 3025 (Part 46) 1994, Reaff: 2019
Chloride	mg/lit	6.48	250	IS 3025 (Part 32) 1998, Reaff: 2019



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

Parameter	Unit	Result	Standard: (IS10500:2012)	Methods of Analysis
Sulphate	mg/lit	4.72	200	IS 3025 (Part 24) 1986, Reaff: 2019
Total alkalinity	mg/lit	60.28	200	IS 3025 (Part 23) 1986, Reaff: 2019
Fluoride	mg/lit	Absent	1.0	IS 3025 (Part 60) 2008
Nitrates	mg/lit	Absent	45	APHA 23 <sup>rd</sup> Edition, (Part 4500-NO <sub>3</sub> <sup>-</sup> B)
Cyanide	mg/lit	Absent	0.05	APHA 23 <sup>rd</sup> Edition, (Part 4500-CN <sup>-</sup> C)
Residual free chlorine	mg/lit	Absent	0.2	APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl B)
Copper	mg/lit	Absent	Max 0.05	IS:3025 (Part 42) 1992, Reaff: 2019
Mercury	mg/lit	Absent	Max 0.001	APHA 23 <sup>rd</sup> Edition, (Part 3500Hg)
Cadmium	mg/lit	Absent	Max 0.003	APHA 23 <sup>rd</sup> Edition, (Part 3500-Cd)
Lead	mg/lit	Absent	Max 0.01	IS 3025 (Part 47) 1994, Reaff: 2019
Zinc	mg/lit	Absent	5.0	IS 3025 (Part 49) 1994, Reaff: 2019
Coliform Organism	mg/lit	Absent	Not Specified	IS: 1622 – 1981
Nickel	mg/lit	Absent	Max 0.02	IS 3025 (Part 54) 2003, Reaff: 2019,
Polychlorinated biphenyls	mg/lit	Absent	0.0005	APHA 23 <sup>rd</sup> Edition, (Part 6431 B)
Total chromium	mg/lit	Absent	Max 0.05	APHA 23 <sup>rd</sup> Edition, (Part 3111B)
Total arsenic	mg/lit	Absent	Max 0.01	APHA 23 <sup>rd</sup> Edition, (Part 3500-As B)
Aluminium	mg/lit	Absent	Max 0.03	APHA 23 <sup>rd</sup> Edition, (Part 3111 D)
Ammonia(as total ammonia- N)	mg/lit	Absent	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 4500-NH 3C)
Boron	mg/lit	Absent	Max 0.5	APHA 23 <sup>rd</sup> Edition, (Part 4500-B C)
Silver	mg/lit	Absent	0.1	APHA 16 <sup>th</sup> Edition, (Part 324B)
Sulphide	mg/lit	Absent	0.05	APHA 23 <sup>rd</sup> Edition, (part 4500-D)
Mineral oil	mg/lit	Nil	0.05	IS 3025 (Part 39)



## DRINKING WATER QUALITY MONITORING ANALYSIS REPORT

Parameter	Unit	Result	Standard: (IS10500:2012)	Methods of Analysis
Anionic detergents	mg/lit	Nil	Max 0.2	APHA 23 <sup>rd</sup> Edition, (Part 5540 C)
Chloramines	mg/lit	Nil	Max 4.0	APHA 23 <sup>rd</sup> Edition, (Part 4500-Cl G)
Selenium	mg/lit	Nil	Max 0.01	APHA 23 <sup>rd</sup> Edition, (Part 3500-Se C)
DDT	µg/lit	Nil	1.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
2,4 D	µg/lit	Nil	3.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Gamma-HCH(Lindane)	µg/lit	Nil	2.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Endosulfan	µg/lit	Nil	0.4	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Atrazine	µg/lit	Nil	2.0	APHA 23 <sup>rd</sup> Edition, (Part 6630C)
Reactive Silica	ppm	Nil	0.02	APHA 23 <sup>rd</sup> Edition, (Part 4500- SiO <sub>2</sub> D)
Sodium	mg/lit	BDL	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 3500 NaB)
Potassium	mg/lit	BDL	Not Specified	APHA 23 <sup>rd</sup> Edition, (Part 3500-K B)
Phosphorous	mg/lit	BDL	Not Specified	IS 3025 (Part 31) 1988, Reaff – 2019
Iron	mg/lit	Nil	0.3	IS 3025 (Part 53) 2003, Reaff – 2019
Most Probable Number	/100ml	Absent	0/100ml	IS: 1622-1981, Multiple tube technique
E. coli	/100ml	Absent	0-1/100ml	IS: 5887 -1 & IS15186:2002 Multiple tube technique
Total Coliform	/100ml	Absent	0-1/100ml	IS:1622-1981, Multiple tube technique
Total Viable Count	/100ml	Absent	0-1/100ml	IS: 5402 : 2012
Fecal	/100ml	Absent	0-1/100ml	APHA 23 <sup>rd</sup> Edition Part 9230- B, Page 9-118

• BDL: - Below Detection Limits

For **GREEN ENVIRO**




**Authorized Signatory** Page No.3

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## SOURCE EMISSION MONITORING ANALYSIS REPORT

CLIENT'S NAME	M/s. J Kumar Infra Project Ltd
CLIENT'S ADDRESS	Mahametro, P1UG - 04, Swargate, , Pune
REPORT NO.	GE/LAB/A/JKIPL1
DATED	23/12/2024
LAB REFERENCE NO	GE/LAB/A/JKIPL01
DATE OF SAMPLING	17/12/2024
DATE OF ANALYSIS	18/12/2024

### RESULTS OF ANALYSIS

TEST DESCRIPTION	UNIT	RESULT	LIMITS	METHOD OF ANALYSIS
Nature of Sample	----	DG Stack Monitoring		
Test Location	----	DG Set No.1-180 KVA		
Duration Of Sampling	Min	20		
Material Of Stack	----	MS		
Stack Height From	Mtr	3.5 Ground Level		
Shape Of Stack	----	Round		
Fuel Consumption	----	HSD		
Fuel Consumption	Lit/Hr	12 -14		
Diameter	(M)	0.15		
Cross Sectional Area	(M <sup>2</sup> )	0.0300		
Flue Gas Temperature	Deg C	98		
Average Velocity	M/Sec	7.84		
Gas Volume	NM <sup>3</sup> /Hr	715.3		
Total Particulate Matter	Mg/NM <sup>3</sup>	72.46	150	IS11255 (part 1)1985,2014
Sulphur Dioxide	Kg/Day	0.92	N.S.	IS11255 (part 2)1985,2014

**N.S.** - Not Specified

**REMARK/OBSERVATIONS:** Monitoring results are well within the limits prescribed by MPCB.

**Equipment Used:** - Stack Monitoring Kit, Sr.No. 108-DTG-2018, (Make: Lata Envirotech Services, Model: APM-160) **Date of Calibration:** - 14.11.2024, **Next Calibration Due:** - 13.11.2025

For **GREEN ENVIRO**




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## DG NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

Sample/Report No.	GE/LAB/DGNM/JKIPL1
Name Of Customer	M/s. J Kumar Infra Project Ltd
Address Of Customer	Mahametro, P1UG - 04, Swargate, , Pune
Report Dated	23/12/2024
Date Of Sampling	Vendor on 17/12/2024
Date Of Analysis	18/12/2024
Monitoring For	DG Noise Monitoring
Sampling Location	DG Set No.1 – 180 KVA
Limits*	1) Maharashtra Pollution Control Board has prescribed in consent, acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standard, whichever is on higher side. 2) Maharashtra Pollution Control Board has prescribed 75 dB(A) as an upper limit of Noise Level during day time & 70 dB(A) during Night time
Time Of Sampling	1) Day time shall mean from 06:00 A.M. to 10:00 P.M. 2) Night time shall mean from 10:00 P.M. to 06:00 A.M

### RESULTS OF ANALYSIS

Description	Test Location	Unit	READINGS		Insertion Loss $\geq 25$ Db	
			11:00 Hrs. Day Time	22:01 Hrs. Night Time	11:00 Hrs. Day Time	22:01 Hrs. Night Time
DG Set No.1 (180 KVA)	DG Set # 180 KVA Inside Acoustic Enclosure	dB(A)	100.7	95.8	27.0	27.3
	DG Set # 180 KVA Outside Acoustic Enclosure from 0.5 meter away	dB(A)	73.7	68.5		

**REMARK/OBSERVATIONS:** All above Results are within MPCB Limits.

Equipment Used: Digital Noise level meter, Make: Metravi, Model: SL-4015 Sr. No. 220716886,

Date of Calibration: - 14/11/2024, Next Calibration Due: - 13/11/2025

For **GREEN ENVIRO**




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## SOURCE EMISSION MONITORING ANALYSIS REPORT

CLIENT'S NAME	M/s. J Kumar Infra Project Ltd
CLIENT'S ADDRESS	Mahametro, P1UG - 04, Swargate, , Pune
REPORT NO.	GE/LAB/A/JKIPL2
DATED	23/12/2024
LAB REFERENCE NO	GE/LAB/A/JKIPL02
DATE OF SAMPLING	17/12/2024
DATE OF ANALYSIS	18/12/2024

### RESULTS OF ANALYSIS

TEST DESCRIPTION	UNIT	RESULT	LIMITS	METHOD OF ANALYSIS
Nature of Sample	----	DG Stack Monitoring		
Test Location	----	DG Set No.2-62.5 KVA		
Duration Of Sampling	Min	20		
Material Of Stack	----	MS		
Stack Height From	Mtr	2.5 Ground Level		
Shape Of Stack	----	Round		
Fuel Consumption	----	HSD		
Fuel Consumption	Lit/Hr	07 -09		
Diameter	(M)	0.13		
Cross Sectional Area	(M <sup>2</sup> )	0.0285		
Flue Gas Temperature	Deg C	88		
Average Velocity	M/Sec	6.19		
Gas Volume	NM <sup>3</sup> /Hr	604.3		
Total Particulate Matter	Mg/NM <sup>3</sup>	65.12	150	IS11255 (part 1)1985,2014
Sulphur Dioxide	Kg/Day	0.74	N.S.	IS11255 (part 2)1985,2014

**N.S.** - Not Specified

**REMARK/OBSERVATIONS:** Monitoring results are well within the limits prescribed by MPCB.z

**Equipment Used:** - Stack Monitoring Kit, Sr.No. 108-DTG-2018, (Make: Lata Envirotech Services, Model: APM-160) **Date of Calibration:** - 14.11.2024, **Next Calibration Due:** - 13.11.2025

For **GREEN ENVIRO**




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## DG NOISE MONITORING ANALYSIS REPORT

### TEST REPORT

Sample/Report No.	GE/LAB/DGNM/JKIPL2
Name Of Customer	M/s. J Kumar Infra Project Ltd
Address Of Customer	Mahametro, P1UG - 04, Swargate, , Pune
Report Dated	23/12/2024
Date Of Sampling	Vendor on 17/12/2024
Date Of Analysis	18/12/2024
Monitoring For	DG Noise Monitoring
Sampling Location	DG Set No.2 – 62.5 KVA
Limits*	1) Maharashtra Pollution Control Board has prescribed in consent, acoustic enclosure / acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standard, whichever is on higher side. 2) Maharashtra Pollution Control Board has prescribed 75 dB(A) as an upper limit of Noise Level during day time & 70 dB(A) during Night time
Time Of Sampling	1) Day time shall mean from 06:00 A.M. to 10:00 P.M. 2) Night time shall mean from 10:00 P.M. to 06:00 A.M

### RESULTS OF ANALYSIS

Description	Test Location	Unit	READINGS		Insertion Loss $\geq 25$ Db	
			11:25 Hrs. Day Time	22:30 Hrs. Night Time	11:25 Hrs. Day Time	22:30 Hrs. Night Time
DG Set No.2 (62.5 KVA)	DG Set # 62.5 KVA Inside Acoustic Enclosure	dB(A)	99.3	94.4	26.4	26.6
	DG Set # 62.5 KVA Outside Acoustic Enclosure from 0.5 meter away	dB(A)	72.9	67.8		

**REMARK/OBSERVATIONS:** All above Results are within MPCB Limits.

Equipment Used: Digital Noise level meter, Make: Metravi, Model: SL-4015 Sr. No. 220716886,

Date of Calibration: - 14/11/2024, Next Calibration Due: - 13/11/2025

For **GREEN ENVIRO**




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📍 **Laboratory :** Sr.No.45A/1-4A/4. "PARSHURAM", Eliphiston Road, Bopodi, Pune - 411003.

✉ **info@mygreenenviro.com, krchavan@mygreenenviro.com**

🌐 **www.mygreenenviro.com**

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## SOIL ANALYSIS REPORT

<b>CLIENT'S NAME</b>	M/s. J Kumar Infra Project Ltd
<b>CLIENT'S ADDRESS</b>	Mahametro, P1UG - 04, Swargate, , Pune
Report No: - GE/LAB/S/ JKIPL1	Dated:- 23/12/2024
Lab Reference No: GE/LAB/S/JKIPL01	Date Of Sampling: - 17/12/2024
Date Of Analysis: - 18/12/2024	Details Of Sample- Soil Sample
Sample Collected By – Green Enviro	Sample Container – Zip Lock Plastic Bag

## RESULTS OF ANALYSIS

Parameter	Unit	Result	Methods Of Analysis
Appearance	----	Medium Black	-
Texture			
Clay	%	61.43	Method manual soil testing
Silt	%	15.76	Method manual soil testing
Sand	%	13.95	Method manual soil testing
Gravel	%	8.86	Method manual soil testing
pH	Value	7.15	IS 2720 Part -26 1987 RA2002
Moisture Content	%	20.38	IS 15106 2002
Conductivity	mmhos	3.15	IS 14767 : 2000
Water Holding Capacity	%	23.67	IS 14765 2000
Copper as Cu	mg/kg	BDL	IS 6092 Part- 5 1985
Zinc as Zn	mg/kg	BDL	IS 6092 Part- 5 1985
Lead as Pb	mg/kg	BDL	IS 6092 Part- 5 1985



## SOIL ANALYSIS REPORT

Parameter	Unit	Result	Methods Of Analysis
Cadmium as Cd	mg/kg	BDL	IS 6092 Part- 5 1985
Iron as Fe	mg/kg	BDL	IS 6092 Part- 5 1985
Manganese as Mn	mg/kg	BDL	IS 6092 Part- 5 1985
Phosphorous as P	Kg/ha	BDL	IS 6092 (Part 3) 2004
Total Nitrogen as N	mg/kg	2431	Method manual soil testing
Potassium as k	mg/kg	145.9	IS 2799 -1980
Sodium as Na	mg/kg	1.83	IS 2799 -1980
Organic Carbon	%	2.93	IS 2720 Part -22 1972 RA 2010
Calcium as Ca	%	0.68	IS 2409:1985
Magnesium as Mg	%	BDL	IS 2409:1985

- BDL - **Below Detection Limits**

For **GREEN ENVIRO**



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## महाराष्ट्र मेट्रो रेल कॉर्पोरेशन लि.

(केंद्र शासन आणि महाराष्ट्र शासन यांचा संयुक्त प्रकल्प)

### पुणे मेट्रो रेल प्रकल्प

१०१, दी ओरियन, डॉन वास्को युथ सेंटर समोर, कोरेगाव पार्क,  
पुणे ४११००१. दूरध्वनी : ०२०-२६०५१०७२

ई-मेल : tenders.pmp@mahametro.org | www.punemetrorail.org

### जाहीर सूचना

टि.पी. स्कीम नं. ३, फायनल प्लॉट नं. ४९९, स्वारागेट, पुणे, महाराष्ट्र या मिळकतीवरील मे.  
'महाराष्ट्र मेट्रो रेल कॉर्पोरेशन लि.' यांच्या 'स्वारागेट मल्टी मोडल ट्रान्झिट हब' या प्रकल्पाला  
पर्यावरणीय मंजूरी देण्यात आली आहे आणि मंजूरी पत्राच्या प्रती महाराष्ट्र प्रदूषण नियंत्रण  
मंडळाकडे उपलब्ध आहेत व त्या मंत्रालयाच्या <http://environmentclearance.nic.in/> या  
वेबसाइटवर देखील पाहता येतील.

महाराष्ट्र मेट्रो रेल कॉर्पोरेशन लि., पुणे



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**MAHARASHTRA METRO RAIL CORPORATION LTD.**  
(A joint venture of Govt. of India & Govt. of Maharashtra)  
**PUNE METRO RAIL PROJECT**

101, The Orion, Opposite Don Bosco Youth Centre, Koregaon Park,  
Pune - 411001. Telephone: 020-26051072  
E-mail: tenders.pmrp@mahametro.org | www.punemetrorail.org

**PUBLIC NOTICE**

This is to inform that the construction Project "Swargate Multi Modal Transit Hub" by M/s. "Maharashtra Metro Rail Corporation Limited" address- T. P. Scheme No. 3, Final Plot No. 499, Swargate, Pune, Maharashtra has been accorded Environmental Clearance and copies of the clearance letter are available with the Maharashtra Pollution Control Board and may also be seen on the website of the ministry at <http://environmentclearance.nic.in/>

**Maharashtra Metro Rail Corporation, Pune**



**GOVERNMENT OF ODISHA**  
**OFFICE OF THE CHIEF CONSTRUCTION ENGINEER**  
**RURAL WORKS CIRCLE, BERHAMPUR**

राष्ट्र सुवर्ण जयंती  
नीद्वारे (ऑनलाईन  
तत्स्थळीवर प्रसिद्ध  
न देण्यात आलेली  
अभियंता सा.बांध.

१६.०० वाजेपर्यंत.

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✓ ENVIRONMENT CLEARANCE FOR SWARGATE MULTI MODAL TRANSIT HUB AT T. P. SCHEME NO.03, FINAL PLOT NO.499, SWARGATE, PUNE BY PUNE METRO RAIL PROJECT

✓ ANNUAL REPORT 2023-24

✓ ANNUAL REPORT 2023-24

✓ RESETTLEMENT ACTION PLAN (RAP) FOR SOUTH EXTENSION (SWARGATE TO KATRAJ) - (DRAFT FOR SUGGESTIONS)

✓ RESETTLEMENT POLICY FRAMEWORK FOR NORTH EXTENSION (PCMC - NIGDI) AND SOUTH EXTENSION (SWARGATE - KATRAJ)-(DRAFT FOR SUGGESTION)

✓ RESETTLEMENT ACTION PLAN ( RAP) FOR NORTH EXTENSION (PCMC-NIGDI) - (DRAFT FOR SUGGESTION)

✓ ESIA & ESMP FOR NORTH EXTENSION (PCMC-NIGDI)-(DRAFT FOR SUGGESTION)

✓ ESIA AND ESMP SWARGATE -KATRAJ (SOUTH EXTENSION) - (DRAFT FOR SUGGESTION)

✓ DETAILED PROJECT REPORT & SANCTION ORDER OF SWARGATE - KATRAJ

✓ DETAILED PROJECT REPORT (PCMC TO NIGDI – CORRIDOR 1A)

✓ ANNUAL REPORT 2022-23



Undertaking of no legal case is pending to the project under consideration



MAHARASHTRA METRO RAIL CORPORATION LIMITED  
(Pune Metro Rail Project)  
Office of the Executive Director/UG, Survey No. 24, Deccan  
College, Taluka – Haveli Yerwada Pune- 411001

Maha-Metro/PMRP/UG-04/2021/ 204

Date: 07.07.2021

To,  
The Chairman SEAC III,  
Government of Maharashtra,  
Mumbai-400032

We, M/s Maharashtra Metro Rail Corporation Limited, hereby solemnly submit this affidavit that no litigation related to Environmental degradation is presently pending regarding Swargate Multi Modal Transit Hub located at T. P. Scheme no. - 03, Final Plot no. - 499, Swargate, Pune, Maharashtra in any court of law within India.

(Rajesh Jain)  
Additional CPM/UG-01  
MAHA Metro, Pune  
राजेश जैन  
RAJESH JAIN  
अतिरिक्त मुख्य प्रकल्प व्यवस्थापक  
Addl. Chief Project Manager  
महाराष्ट्र मेट्रो रेल कॉर्पोरेशन  
Maha Metro Rail Corporation

## Excavation management plan.

Excavation cum Muck Management Plan

A large quantity of muck is expected to be generated as a result of Excavation. Muck generated from excavation is required to be disposed in a planned manner so that it takes a least possible space and does not pose hazard to the environment. In the proposed project, total muck generation is envisaged to be 2,53,652 cum and their reuse and disposal is given in below Table.

Quantity of muck generated	Quantity of muck with swell factor	Total quantity of muck including swell factor	Estimated quantity of muck proposed to be utilized	Estimated quantity of muck dumped till date	Balance muck to be disposed	Disposed Till Date	Name of the dumping site	Quantity dumped in respective dumping yard
cum	cum	cum	cum	cum			cum	cum
1	2	3 (1+2)	4	5 (3-4)	6	7 (5-6)	8	9
253,262	63,316	316,578	67,653	248,925	15,000	233,925	1. Lohagaon	113,465.50
							2. Bhavdi	61,200
							3. Saswad	59,259

It is clear from Table that about to 2,53,262 m<sup>3</sup> of muck needs to be disposed. The area, identified for dumping can accommodate the generated muck adequately. The details of muck disposal areas and capacities are given in below table.

S.No.	Disposal Site Name	Area (Sq.m)	Capacity (CUM)
1.	Bhavdi	20,400	163,200
2.	Saswad	19,753	65,000
3.	Lohagaon	165,700	1,325,600

## Relevant section under UDCR 2020 related RG area

UDCR 2020

(iii) For the plots having area upto 0.4 ha, regulated under the Maharashtra Government Development (Regulation, Upgradation and Control) Act, 2001, no such open space shall be required for the development permission.

(iv) Not more than 50% of such recreational open space may be provided on the terrace of a podium in composition regulated area subject to Regulation No.8.13.

Notwithstanding anything contained in the definition of "Recreational Open Space" in these regulations, such recreational open space to the extent of 100% may be allowed to be provided on the terrace of a podium if owner/developer provides 1.5 m. strip of land along plot boundary, exclusive of marginal distances, for plantation of trees.

(v) In case of lands declared surplus or retainable under Urban Land CE & RO Act, 1976, if the entire retainable holding or entire surplus holding independently adjoins 0.4 ha or more, then 10% recreational open space shall be necessary in respective holding.

(vi) Such recreational open space shall also be necessary for group housing scheme or campus/ cluster planning for any use zone.

(vii) Such open space shall not be necessary :-

- In cases of layout or subdivision of plots from a layout already sanctioned by the Authority irrespective of percentage of open space left therein.
- for development of the reservations in the Development Plans designated for the purpose other than residential.
- for the uses other than Residential, Industrial and Educational permissible in Agricultural zone.

(viii) In the case of development or use for educational purpose, at least 10% recreational open space, including percentage of the gross area (as decided by the Government from time to time), excluding the area under Development/ Regional Plan road and Development Plan reservations, shall be earmarked for playground. Notwithstanding anything contained in this regulation, the shape and location of such open space shall be such that it can be properly used as a playground. The area of such playground shall not be deducted for computation of FSI. The independent playground of the institution attached with the school building shall also be entitled for computation of FSI.

Provided that, in case of area more than 1ha, such area to be earmarked for playground shall be as under :-

Sr. No.	Gross Area of Land	Percentage of Playground
1	Up to 1 ha.	40%
2	Above 1 ha. and upto 2 ha.	area as per 1 + 20% of remaining area
3	Above 2 ha. and upto 3 ha.	area as per 2 + 20% of remaining area
4	Above 3 ha. and upto 4 ha.	area as per 3 + 20% of remaining area
5	Above 4 ha.	area as per 4 + 20% of remaining area

Provided further that, in cases where space for such playground is not available because of development permissions already granted by the Authority for education purpose and work is completed, such space for playground may not be insisted.

(ix) Such recreational open space shall not be entirely proposed in marginal distances / set back

Such open space shall not be necessary :-

- In cases of layout or subdivision of plots from a layout already sanctioned by the Authority irrespective of percentage of open space left therein.
- for development of the reservations in the Development Plans designated for the purpose other than residential.
- for the uses other than Residential, Industrial and Educational permissible in Agricultural zone.

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