



File No: 11/19/2025-IA.III

Government of India

Ministry of Environment, Forest and Climate Change

IA-III Section (CRZ)

Centralized Processing Centre - Green



Dated 31/03/2025



To,

M/s Gujarat Metro Rail Corporation (GMRC)

Block No. 1, First Floor,

Karmayogi Bhavan, Behind Nirman Bhavan,

Sector 10/A, Gandhinagar-382010, Gujarat

Email: environment@gujaratmetrorail.com

Subject:

Proposal for CRZ Clearance – Proposed Metro Bridge Across River Tapi Adjoining Badrinarayn Temple station located in Adajan and the Athwa Chopati station located in Athwa Area of Surat City, Gujarat by M/s Gujarat Metro Rail Corporation (GMRC) – regarding

Sir/Madam,

This has reference to your proposal No. IA/GJ/CRZ/463874/2024 dated 22/01/2025 on the above mentioned project proposal for CRZ Clearance, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for CRZ Clearance for ‘Proposed Metro Bridge Across River Tapi Adjoining Badrinarayn Temple station located in Adajan and the Athwa Chopati station located in Athwa Area of Surat City, Gujarat by M/s Gujarat Metro Rail Corporation (GMRC)’.

3. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous projects, in its 392nd meeting held on 21/02/2025. The Project Proponent (M/s Gujarat Metro Rail Corporation (GMRC) and consultant (M/s Envision Enviro Technologies Pvt. Ltd.) have made a presentation on above said proposal and informed the following salient features of the proposal, including the details provided in the application of the project, to EAC:

as

1.	Brief description of the Project	The proposal seeks CRZ Clearance under CRZ Notification 2011 for the construction of Metro Bridge across River Tapi adjoining Athwa and Adajan Area of Surat city by M/s Gujarat Metro Rail Corporation (Gmrc) Limited																										
2.	Salient features / Components of the project activity	<p><u>Details of Bridge</u></p> <p>Length of Bridge (Between ends of Deking): 594 m</p> <p>Width of Bridge: 8.225 m</p> <p>Number of Span: 16 Span</p> <p>Span Length: 50 m x 8, 31 m x 1, 25 m x 5, 22 m x 1, 16m x 1</p> <p>Carriage Way: 8.255 m</p> <p>No. of Pillars: 17</p> <p>Design Discharge: 36,000 CUMEC</p> <p>Design H.F.L.: 14.25 m</p> <p>Type of Bridge: Box Segment Girder</p>																										
3.	CRZ Report/Maps prepared by	Institute of Remote Sensing (IRS) Anna University, Chennai.																										
4.	CRZ Categorization as per CRZ Report The project activity falls in CRZ IB, CRZ II, CRZ IVB area	<table border="1"> <thead> <tr> <th>Description</th><th>Coastal Regulation zone</th><th>Pillar Nos. in CRZ</th><th>No. of Pillar in CRZ</th><th>Foot print area in m²</th><th>Total Area falls within CRZ (in m²)</th></tr> </thead> <tbody> <tr> <td rowspan="6">Proposed Pillars</td><td>CRZ – IB</td><td>P367</td><td>1 No.</td><td>71.5</td><td>71.5</td></tr> <tr> <td rowspan="5">CRZ – II</td><td>P364A</td><td rowspan="5">5 Nos.</td><td>44.37</td><td rowspan="5">330.37</td></tr> <tr> <td>P365</td><td>71.5</td></tr> <tr> <td>P366</td><td>71.5</td></tr> <tr> <td>P369C</td><td>71.5</td></tr> <tr> <td>P370</td><td>71.5</td><td></td></tr> </tbody> </table>	Description	Coastal Regulation zone	Pillar Nos. in CRZ	No. of Pillar in CRZ	Foot print area in m ²	Total Area falls within CRZ (in m ²)	Proposed Pillars	CRZ – IB	P367	1 No.	71.5	71.5	CRZ – II	P364A	5 Nos.	44.37	330.37	P365	71.5	P366	71.5	P369C	71.5	P370	71.5	
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		P365		71.5																								
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		P369C		71.5																								
		P370		71.5																								

		CRZ – IVB	P368	4 Nos.	71.5	286.00
			P369		71.5	
			P369A		71.5	
			P369B		71.5	
	Outside CRZ	P363	7 Nos.	44.37	0.00	
		P363A		44.37		
		P364		44.37		
		P371		44.37		
		P372		44.37		
		P373		44.37		
		P374		44.37		
	Total Area falls within CRZ (in m²)					687.87

5.	Applicability of EIA Notification 2006	Not Applicable
6.	NOC from SPCB (For discharge Project)	NOC will be obtained after CRZ Clearance is obtained
7.	Certified Compliance Report from IRO (Expansion/Amendment Case)	Not Applicable
8.	Permissibility of project as per CRZ Notification 2011 (mention the Clause as per SCZMA recommendation letter)	As per the CRZ Notification, 2011, proposed activity is permissible under the clause 3(iv)a and 8 I(ii)b.
9.	EIA Consultants details (with validity)	<p>Name: Envision Enviro Technologies Pvt. Ltd.</p> <p>Address: Envision Tech House, 4th Floor, Opp. Bharthana Primary School, New City Light Road, Bharthana, Surat-395007, Gujarat</p> <p>Phone Number: (0261) 2264003, 2264004)</p> <p>Email address: info@en-vision.in</p> <p>NABET Certificate: NABET/EIA/23-26/RA</p>

		0318 dated 19 February 2024 valid up to 07 December 2026
10.	Baseline period for EIA	December'23 – February'24
11.	Applicability of Terrestrial and Marine EIA (please mention clearly, if not applicable please mention the same)	Applicable. Rapid Terrestrial and Marine EIA has been carried out.
12.	Anticipated impacts (mention page no of EIA)	Refer Chapter 4 of EIA report Page no 4-1 to 4-22
13.	Mitigation measures proposed (mention page no of EIA)	Refer Chapter 4 of EIA report Page no 4-1 to 4-22
14.	Disaster Management Plan (mention page no of EIA)	Refer Chapter 7 of EIA report Page no 7-1 to 7-11
15.	Risk Assessment (mention page no of EIA)	Refer Chapter 7 of EIA report Page no 7-1 to 7-11
16.	Total Project cost	68.3 Crores
17.	Is project located in erosion prone area (yes/no)	No
18.	If yes, specific the management plan proposed	Not Applicable
19.	EMP cost proposed (capital and recurring)	0.4 Crore
20.	Forest Clearance requirement	Not Required
21.	Wildlife Clearance Requirement	Not Required
22.	Proposed Green Cover	350 m ² (For compensatory plantation of 78 trees)
23.	Proposed budget for green cover development	0.5 Lakhs
24.	Rain water harvesting	Not Any
25.	Proposed budget for rainwater harvesting	Not Any
26.	Details of Mangrove tree Cutting	No Mangrove cutting involved
27.	Details of tree Cutting	Total 26 Nos. of tree required to be cut during

		<p>project implementation.</p> <p>Permission for the same has been obtained from the Surat Municipal Corporation on 09/02/2021. The compensatory tree plantation is considered.</p>
28.	Details of Compensatory afforestation proposed	To grow total 78 trees as a compensatory measure for the bridge component of the metro project.
29.	Proposed energy conserving measures	Utilization of energy efficient appliances/machineries and LED lamps will be provided
30.	Power Requirement and Source	<p>During Construction:</p> <p>Requirement: 35 kW</p> <p>Source: Dakshin Gujarat Vij Company Limited (DGVCL)</p> <p>During Operation:</p> <p>Requirement: Third Rail 750 DC kVA</p> <p>Source: Dakshin Gujarat Vij Company Limited (DGVCL)</p>
31.	Water requirement and source	<p>Construction phase:</p> <p>Requirement: 23 KLD</p> <p>Source: Surat Municipal Corporation Network</p> <p>Operation phase:</p> <p>No water requirement and waste water generation are envisaged during the operation phase.</p>
32.	Waste water Treatment and re-use	<p>During Construction:</p> <p>Waste water generation: 4.7 KLD</p> <p>Mode of disposal: Mobile Toilets will be utilized. Waste water collected at Mobile Toilet will be sent to SMC Drainage network for further Treatment and disposal. (Outside CRZ Area)</p>
33.	Solid Waste Generation	Domestic solid waste (construction Phase): 20 kg/day. Top Soil: 150 m ³ . Other excavate earth: 1,900 m ³ Construction debris: 1,000 m ³

34.	Solid Waste management	Domestic solid waste (construction Phase): 20 kg/day waste will be segregated and handed over to the Surat Municipal Corporation for further disposal. Top Soil: 150 m ³ will be stored in the demarcated common plot and reused for Green area/Landscaping development. Other excavate earth: 1,900 m ³ Will be used for back filling. Construction debris: 1,000 m ³ Will be refilled at low lying areas within premises
35.	Hazardous waste Management	Not applicable
36.	Resettlement and Rehabilitation	Not Any
37.	Employment generation (in Numbers)	Construction Phase: 100 Nos. Operation Phase: -
38.	Details of Litigation, If any	Not Any
39.	Details of Ground Water extraction	Not Applicable
40.	Benefits	The proposed project is the construction of metro bridge which is basically linked with the establishment of metro stations network through two corridors. This will lead to benefits in terms of Employment Opportunities; Enhancement of Economy; Mobility Safety and Reduced Accidents. Reduced Fuel Consumption; Reduced Air Pollution; Improvement of Quality of Life.
41.	SCZMA Recommendation	G CZMA has recommended the proposal for CRZ clearance <i>vide</i> letter No. ENV/10/2024/63/T. Cell, dated 24/12/2024 as per CRZ Notification 2011.

4. The Committee deliberated on the proposal based on the information provided and the presentation made by the Project Proponent (PP). After discussions, the Committee observed that the proposed project activity is permissible under the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011, and has received a recommendation from the Gujarat Coastal Zone Management Authority (GCZMA). The Committee also noted that 10 out of 17 pillars of the bridge fall within CRZ Area. In this regard, the Committee suggested the Project Proponent to avoid constructing 10 pillars within the CRZ area. In response, the PP explained that, in order to minimize the impact on CRZ areas, a maximum span length of 50 meters has been adopted without compromising safety aspect, compared to the 30-meter span length in non-CRZ areas. The Committee accepted this justification and further recommended that the PP should develop a site-specific Management Plan aimed at enhancing the ecological health Tapi River. In response, the Project Proponent agreed to comply with this recommendation. Accordingly, the Committee recommends the proposal for CRZ Clearance under the CRZ Notification, 2011, subject to the following terms and conditions.

5. After detailed deliberations and considering the submissions made by the project proponent, the committee has recommended the proposal for CRZ Clearance, subject to terms and conditions as stipulated during its 392nd meeting held on 21/02/2025.

6. Based on the recommendation of the Gujarat Coastal Zone Management Authority and considering the submissions made by the project proponent, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendations of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the project for '**Proposed Metro Bridge Across River Tapi Adjoining Badrinarayn Temple station located in Adajan and the Athwa Chopati station located in Athwa Area of Surat City, Gujarat by M/s Gujarat Metro Rail Corporation (GMRC)**' under the provisions of the CRZ Notification, 2011 and amendments thereto, subject to the compliance of terms and conditions as under:-

Specific Conditions

S. No	Specific Conditions
1	All construction activities must strictly adhere to the provisions of the CRZ Notification, 2011, as amended from time to time.
2	The proposed bridge should be constructed without affecting the natural flow of water.
3	The Project Proponent shall enhance tree plantation efforts under the campaign " एक पेड़ माँ के नाम " (Ek Ped Maa Ke Naam). The details of the trees planted must be uploaded on the official portal https://merilife.nic.in .
4	As committed, green cover in an area of 350 m ² should be developed in consultation with forest department.
5	All mitigation measures listed in the Environmental Impact Assessment (EIA) report must be implemented without any deviations.
6	The Project Proponent must ensure the incorporation of the latest safety features and protocols for the safe operation of the proposed project activity. Proper Standard Operating Procedures (SOPs) for safety must be established and followed diligently.
7	Topsoil excavated during construction activities shall be stored for use in horticulture/landscape development etc. within the project site.
8	No groundwater shall be extracted within the CRZ area to meet the water requirements during the construction and/or operation phase of the project.
9	No storage reservoir for sea water shall be permitted.

S. No	Specific Conditions
10	Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
11	Temporary toilets will be provided for all construction labour. Suitable toilet fixtures for water conservation shall be provided. 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.
12	Construction material and structures/scaffoldings erected for construction at site shall be cleared immediately after finishing construction and it shall be ensured that no construction waste, garbage and machinery or equipment are left post construction.
13	The Project Proponent shall comply order/direction, if any, issued by Hon'ble Court / tribunal on the project.
14	All the conditions stipulated by the Gujarat Coastal Zone Management Authority (GCZMA) for CRZ clearance under CRZ Notification, 2011 <i>vide</i> letter No. ENV/10/2024/63/T. Cell dated 24/12/2024 and commitments made by the PP before the GCZMA and EAC shall be followed in letter and spirit.
15	All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

General Conditions

S. No	General Conditions
1	Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
2	'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
3	Disposal of muck 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 approved sites with the approval of Competent Authority.
4	All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by 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 shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.

S. No	General Conditions
5	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
6	A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days.
7	A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned Regional Office of this Ministry regarding the implementation of the stipulated conditions.
8	The Ministry of Environment, Forest & Climate Change or any other Competent Authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
9	Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
10	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
11	The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.
12	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective Competent Authorities.
13	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at https://parivesh.nic.in/ . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.
14	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom

S. No	General Conditions
	suggestions/ representations, if any, were received while processing the proposal.
15	The proponent shall upload the status of compliance of the stipulated 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&CC, the respective Zonal Office of CPCB and the SPCB.
16	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 project proponent along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.

7. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the CRZ clearance, if implementation of any of the above conditions is not found satisfactory.
9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
10. Any appeal against this CRZ clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
11. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
13. This issues with approval of the Competent Authority.

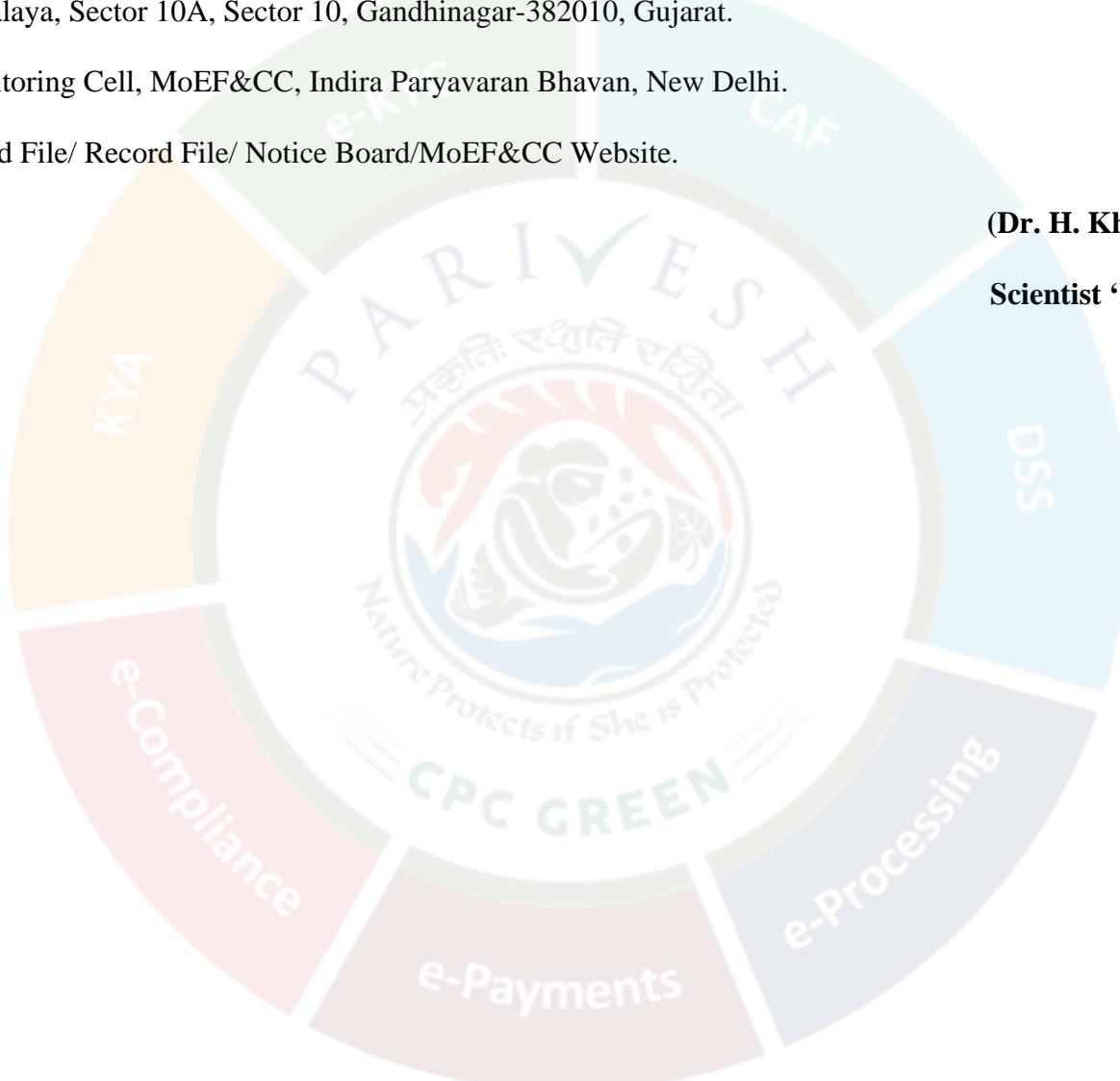
(Dr. H. Kharkwal)

Scientist 'F' (CRZ)

Copy To

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar- 382010, Gujarat.

2. The Deputy Director General, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Gandhi Nagar A Wing- 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar-382010, Gujarat.
3. The Member Secretary, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010, Gujarat.
5. The Member Secretary, Gujarat Coastal Zone Management Authority, Block No: 14/8th Floor, New Sachivalaya, Sector 10A, Sector 10, Gandhinagar-382010, Gujarat.
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
7. Guard File/ Record File/ Notice Board/MoEF&CC Website.



(Dr. H. Kharkwal)

Scientist 'F' (CRZ