

# **Semi-Annual Environment Monitoring Report**

**Project Number: 53262-001**  
**Period: January – June 2023**  
**Submission Date: August 2023**

## **IND: AGARTALA CITY URBAN DEVELOPMENT PROJECT (ACUDP)**

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## AGARTALA CITY URBAN DEVELOPMENT PROJECT(ACUDP)

### PROJECT MANAGEMENT UNIT

3<sup>rd</sup>

### SEMI ANNUAL ENVIRONMENT MONITORING REPORT

ADB Loan 4133-IND

(Period January to June 2023)

August 2023

Agartala Smart City Limited (ASCL)  
GOVT. OF TRIPURA

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**ABBREVIATIONS**

|        |   |  |
|--------|---|--|
| ACUDP  | - | Agartala City Urban Development Project                |
| ADB    | - | Asian Development Bank                                 |
| AMC    | - | Agartala Municipal Corporation                         |
| ASCL   | - | Agartala Smart City Limited                            |
| CTE    | - | Consent to Establishment                               |
| ASCP   | - | Agartala Smart City Proposal                           |
| CTO    | - | Consent to Operate                                     |
| EIA    | - | Environmental Impact Assessment                        |
| EMP    | - | Environmental Management Plan                          |
| EPA    | - | Environmental Protection Agency                        |
| EC     | - | Environmental Clearance                                |
| EWCD   | - | Elderly, women, children, and differently abled        |
| GAPA   | - | Greater Agartala Planning Area                         |
| GRC    | - | Grievance Redress Committee                            |
| GRM    | - | Grievance Redress Mechanism                            |
| GoI    | - | Government of India                                    |
| H&S    | - | Health and safety                                      |
| IRC    | - | Indian Road Congress                                   |
| IEE    | - | Initial Environmental Examination                      |
| IA     | - | Implementing Agency                                    |
| INR    | - | Indian Rupee   |
| MoEFCC | - | Ministry of Environment and Forests and Climate Change |
| NAAQS  | - | National Ambient Air Quality Standards                 |
| NGO    | - | Non-Governmental Organization                          |
| NOC    | - | No Objection Certificate                               |
| O&M    | - | Operation and maintenance                              |
| OFC    | - | Optical Fiber Cables                                   |
| PMC    | - | Project Management Consultant                          |
| PIU    | - | Project implementation Unit                            |
| PPE    | - | Personal Protective Equipment                          |
| RCC    | - | Reinforced cement Concrete                             |
| RoW    | - | Right-of-way   |
| SCM    | - | Small Cities Mission                                   |
| SEIAA  | - | State Environment Impact Assessment Authority          |
| SWD    | - | Storm Water Drain                                      |
| SPS    | - | Safeguard Policy Statement                             |
| SEMP   | - | Site Environment Management                            |
| SPV    | - | Special Purpose Vehicle                                |
| TDS    | - | Total dissolved solids                                 |
| TSPCB  | - | Tripura State Pollution Control Board                  |
| ULB    | - | Urban local body                                       |

## I. INTRODUCTION

### A. Background

1. The Agartala City Urban Development project (ACUDP) is aligned with Government of India's Smart Cities Mission (SCM), launched in 2015 with the aim of making urban areas more liveable, citizen-friendly, sustainable, and resilient, improving urban equality and living conditions with a focus on creating 100 "smart cities". The project aims to support; (i) urban development: by making the city more liveable; (ii) economic development: by promoting the city as an economic and commercial hub in the region;(iii) environmentally sustainable development; and (iv) capacity development of implementing institution. The project is aligned with India CPS 2018–2022, which emphasizes support to national flagship programs including SCM, inclusive urbanization, and development of competitive cities.

2. As SCM was launched by the Government of India in June 2015 to create "100 smart cities" in 5 years (by 2020) to improve urban equality and living conditions, and Agartala is one of the cities chosen for the Smart City Programme. Aligned with the Government of India's SCM Statement and Guidelines, the Agartala Smart City Proposal (ASCP) aims to make Agartala one of the most liveable cities in India and establish the city as an economic and commercial hub for the north-eastern region in India.

3. ADB approved the ACUDP on 27 October 2021, for an amount of \$61 million, to support the GOT by improving Agartala's urban mobility and liveability. Impact of the project is to establish Agartala as an economic–commercial hub in northeast India with improved quality of life. The project will finance climate-resilient and inclusive roads and strengthen the capacity of concerned agencies to ensure improved urban services delivery. The outputs of the project are to (i) upgrade urban roads and drainage, (ii) renovate tourist places and made more eco-friendly, and (iii) create public awareness of sanitation and hygiene and improve capacity of concerned agencies in urban service delivery. The loan was signed on 12 November 2021 and declared effective on 23 December 2021. The loan closing date is 30 June 2029. For Capacity Development under the Agartala City Urban Development Project, a technical assistance of US\$1 million, financed on a grant basis by ADB's Technical Assistance Special Fund (TASF-others) was signed on 31 December 2021.

4. ASCL is acting as executing and implementing agency for the loan and TA and implementing the project through a dedicated PMU based in Agartala and two dedicated PIUs (PIU-1 and PIU-2) also based in Agartala under the project. PIU-1 is responsible for the implementation of Smart Road Project and PIU-2 is for the Ujjayanta palace and MBB College Lake subprojects. PMC appointed by GOT under smart city project and four individual consultants (social, environmental safeguard, financial management, and gender) out of five appointed though ADB financing are currently supporting the PMU and the PIUs in project implementation and ensuring compliance of ADB requirements.

5. Agartala Smart City Limited (ASCL), a state government Special Purpose Vehicle (SPV), was established in 2016 under the Companies Act, 2013 to implement projects under the ASCP and is designated as the executing and implementing agency of the proposed project.

6. Location of project state & city and specific work area is given hereunder.

Figure 1A: Location of Project City and Project Area- Smart Road package

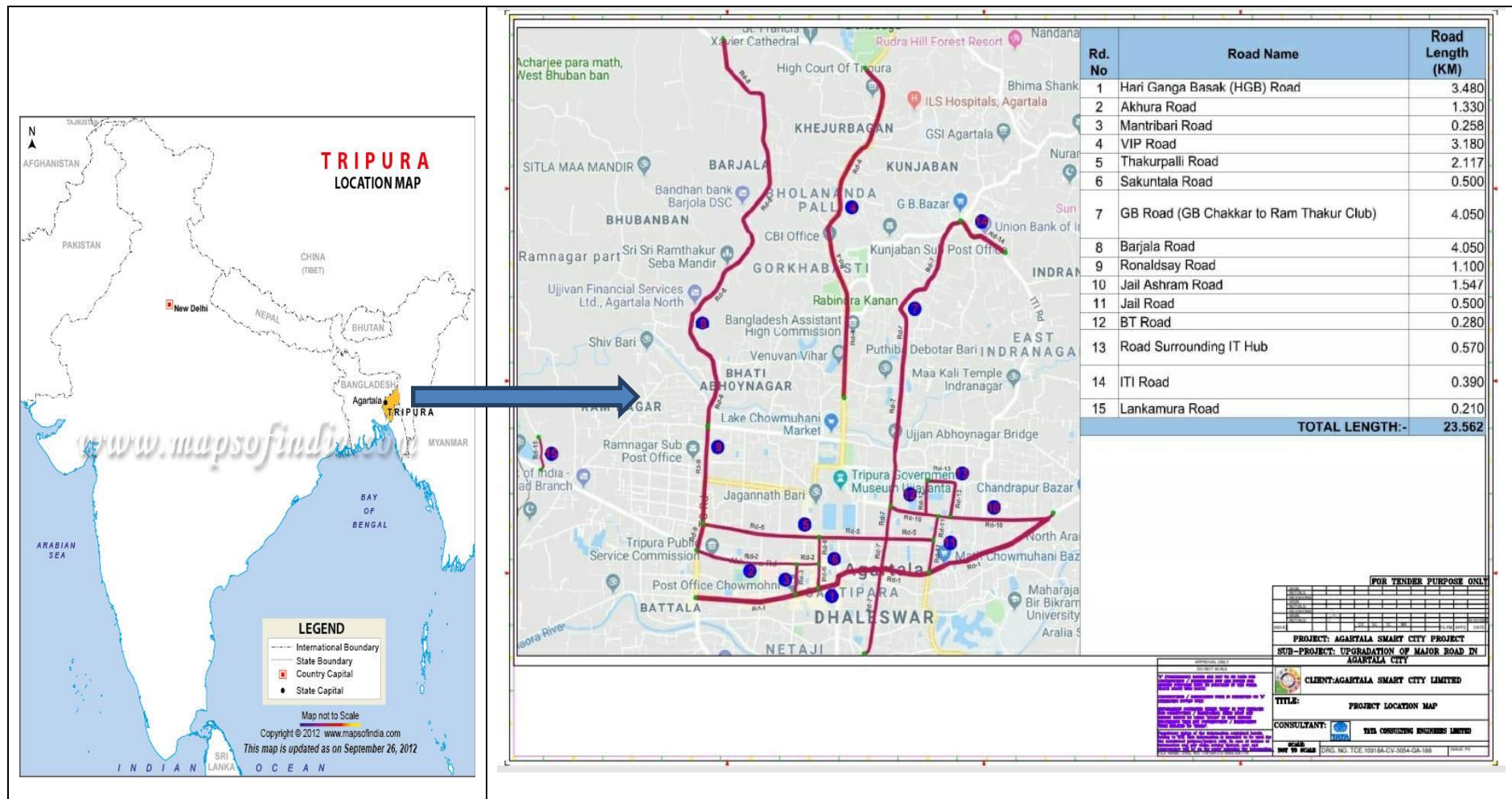


Figure 1B: Location of Project City and Project Area- Ujjayanta Palace package

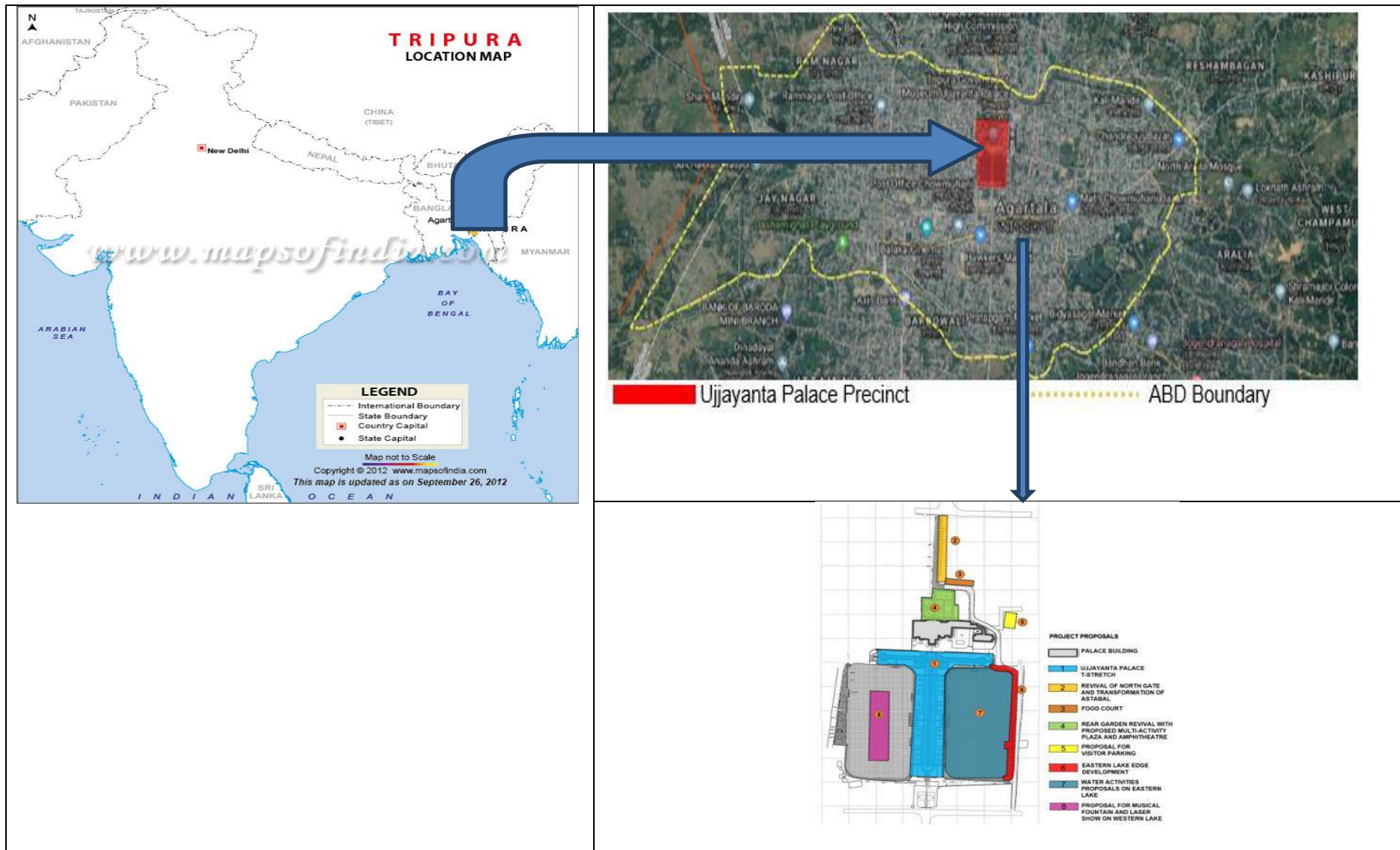
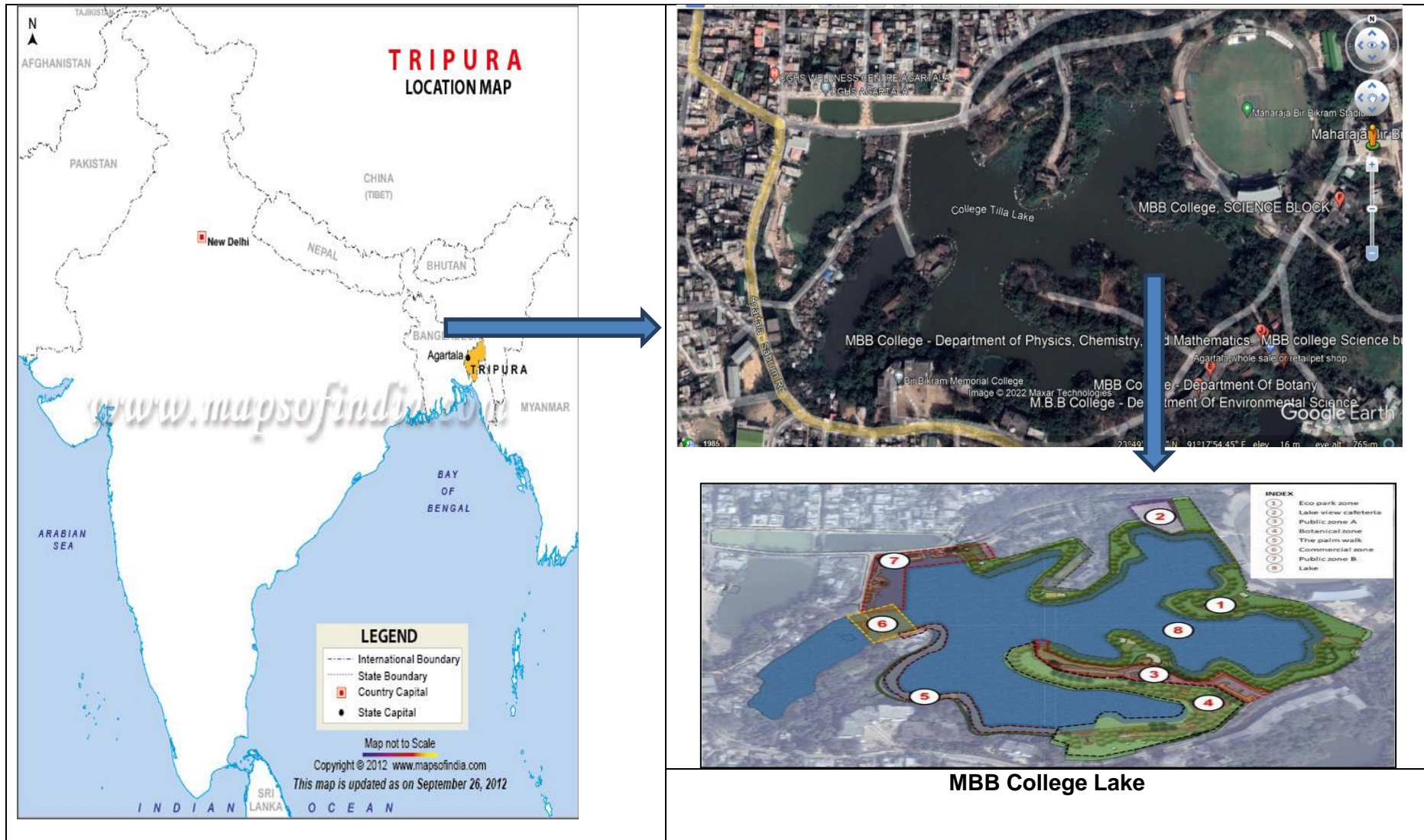


Figure 1C: Location of Project City and Project Area- MBB College Lake package





## B. Project & Report Purpose

7. The ADB-approved environment category of Loan 4133-IND (Project) is “B”, and ADB’s Safeguard Policy Statement (SPS), 2009 is applicable. Accordingly, the initial environmental examination (IEE) reports for three sub-projects namely, (a) Revival and Restoration of Ujjayanta Palace Complex; (b) Maharaja Bir Bikram College Lake Revitalization; and (c) Upgradation of Major Roads in Agartala city has been prepared, cleared, and disclosed on ADB-website November 2020.

8. Subprojects under Loan 4133-IND aim to improve environmental conditions and quality of life in urban areas, the proposed improvement of infrastructure may result in some of the temporary environmental impacts.

9. This report is the “Semi Annual Environment Monitoring Report” for the period January to June 2023, which describe the status of environmental management and monitoring plans (EMMP) implementation till end of reporting period. Implementation of the mitigation measures, monitoring and reporting as per ADB-cleared EMPs of the IEE reports, overall physical progress for all the three sub projects, namely (i) Upgradation of Major Roads, (ii) Revival and Restoration of Ujjayanta Palace Complex in Agartala City and (iii) Maharaja Bir Bikram College Lake Revitalization under loan 4133-IND.

## C. Project Profile

10. Contract agreement was signed for all 3 civil works contracts. For all Contract Packages, the works are under progress. The overall physical progress till end of reporting period (30<sup>th</sup> June 2023) is very slow.

11. **Smart Road Package:** The Smart Road contract package was awarded on 9 November 2021 and effective on 16.02.2022 to the civil works contractor namely, M/s Vasishta Constructions Pvt Ltd. The duration of the contract is 30 months for design and build and 60 months for operation and maintenance. The scope of work includes: (i) construction of approx. 23 km of climate-resilient roads; and (ii) construction or rehabilitation of 48 km of new or existing stormwater drains. The climate-resilient roads will feature an improved paved surface; geometric traffic junctions; street lighting; footpaths; dedicated parking; bollards; signalling; elderly, women, children, and differently abled (EWCD)- responsive features; and an underground utility corridor with shifting of electrical lines. The Contractor had submitted the Confirmatory Survey report for the following roads: (i) VIP Road, (ii) Barjala Road, (iii) GB Road, (iv) Jail Ashram Road, (v) Thakurpalli Road (vi) Road surrounding IT Hub, (vii) Shakuntala Road and (viii) ITI Road. Good for construction drawings for 23 km of stretch has been handed over to the contractor. The Contractor has started work for construction of electrical cable trenches on Barjala Road, VIP Road and GB Road.

12. **MBB College Lake Revitalisation:** This contract package was awarded on 9 February 2021 to the civil works contractor namely, M/s. Mecgale Pneumatics Pvt. Ltd. The duration of the contract is 18 months for design & build and 60 months for operation and maintenance. The scope of work under this package are to rejuvenate 50,000 square meters within the MBB College Lake area through upgrading an eco-park, developing a water recreation area and lakeside public area, create a thematic garden and garden gazebos, enhancing lake water quality with artificial wetlands and adequate aeration, and using waste and effluent management strategies. During the present reporting period, the work of New Cafeteria in the Public Zone A, construction of toe wall for pathway and boundary wall along the lake is continued. construction of *Machaan* in progress. Currently pouring of concrete is done using floating pontoon and tripod arrangement instead of

creating coffer dam. As per the site conditions, reduce the width of walkway than originally proposed thereby reducing numbers of piles from 521 to only 120 numbers. These piles are being provided at “Public zone B & work inside the water body”. Currently pilling works are ongoing at the Food Court, Amphitheatre, children’s play area and Ghat area.

13. **Renovation and Restoration of Ujjayanta Palace:** This contract package was awarded on 9 February 2021 to the civil works contractor namely, M/s Mecgale Premier world JV. The duration of the contract is 18 months for design & build and 60 months for operation and maintenance. The scope of work includes: (i) renewal of 100,000 square meters of open spaces in the Ujjayanta Palace area through beautifying of garden spaces; (ii) renewing water fountains; (iii) renovating the drainage system; and (iv) developing a lakeside walkway with resting areas and pergolas, leisure areas, decorative lighting, and a dedicated parking zone. All facilities will adopt EWCD-responsive features and include improved lighting. In this reporting period, (i) work of *Astabal* Area is in progress; exterior plastering work completed at *Astabal* and toilet block near North Gate, (ii) In Food Court, plastering and construction of steel roof structure is completed, now construction of pergola is in progress and the slab casting and plastering work of toilet block with food court is completed. (iii) In Rear Garden, the plastering work of Amphitheatre is completed, work of Exhibition Plaza is in progress. (iv) In Front Garden, the plastering work of Control Cabin for the Musical Fountains is completed. Also work of Central Channel located at front garden is completed till report period. Central bridge work is completed. Construction of Pergola is in progress. Baluster railing work is in progress.

14. **Table 1** shows status of sub project awarded and overall physical progress till end of reporting period.

**Table 1: Status of Sub-project Awarded/Implementation  
(Upto 30<sup>th</sup> June 2023)**

| Location             | Component, name of the subproject (Code No.)  | Status  | Starting date of Implementation | Projected months of completion (as per Work order)                   | Schedule date of completion (Extended date of completion)                   | Physical progress (%) as on 30 <sup>th</sup> June 2023 |
|----------------------|---|---|---------------------------------|--|---|--|
| <b>Agartala City</b> | Upgradation of Major Roads and Post Completion Maintenance for 05 (Five) Years vide Contract Package No. 001        | <b>Awarded</b><br>This sub project is covered by an item rate contract. LoA issued to M/s. Vasishta Constructions Private Limited, Hyderabad, Ranga Reddy- 500 089, Telengana             | 09.11.2021                      | 08.05.2029<br>30 months for Design and Build and 60 months for O & M | 8 May 2024 for work and 8 May 2029 for O & M                                | <b>0.66%</b>   |
| <b>Agartala City</b> | MBB College Lake Revitalisation including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002 | <b>Awarded</b><br>This sub project is covered by an item rate contract. LoA issued to M/s. Mecgale Pneumatics Pvt. Ltd. N-65, MIDC, Hingna Industrial Estate Nagpur -440 016, Maharashtra | 09.02. 2021                     | 08.08.2027<br>18 months for Design and Build and 60 months for O & M | 31 <sup>st</sup> March 2024 for work and 8 <sup>th</sup> Aug 2027 for O & M | <b>8.15%</b>   |

| Location             | Component, name of the subproject (Code No.)  | Status   | Starting date of Implementation | Projected months of completion (as per Work order)                   | Schedule date of completion (Extended date of completion)                   | Physical progress (%) as on 30 <sup>th</sup> June 2023 |
|----------------------|---|--|---------------------------------|--|---|--|
| <b>Agartala City</b> | Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003 | <b>Awarded</b><br>This sub project is covered by an item rate contract. LoA issued to M/s. Mecgale Premierworld JV, N-65, MIDC, Hingna Industrial Estate Nagpur - 440 016, Maharashtra | 09.02. 2021                     | 08.08.2027<br>18 months for Design and Build and 60 months for O & M | 31 <sup>st</sup> March 2024 for work and 8 <sup>th</sup> Aug 2027 for O & M | <b>25.22%</b>  |

## II. IMPLEMENTATION PROGRESS

### A. Major works and progress

15. Physical work is ongoing for all three sub projects. **Table 2A, 2B & 2C** shows the detailed work progress till 30<sup>th</sup> June 2023 for all three sub projects.

16. Monitoring and reporting on Environmental safeguard are under progress for packages 001,002 & 003.

**Table 2A: Major Works under Upgradation of Major Road Subproject and Progress**

| Sr. No. | Name of Road         | Available ROW (m) | Road Section            |   | Road length (km) | Drain length (km) | Footpath length (km) | Utility trench length (km) | Overall progress up to 30 <sup>th</sup> June 2023                                 | Remarks          |
|---------|----------------------|-------------------|-------------------------|---|------------------|-------------------|----------------------|----------------------------|---|------------------|
|         |                      |                   | From                    | To                                      |                  |                   |                      |                            |   |                  |
| 1.      | Hariganga Basak Road | 15.50 to 20.80    | Battala Chowmuhani      | Ashram Chowmuhani                       | 3.48             | 6.96              | 6.96                 | 6.96                       |   | Work not started |
| 2.      | Akhaura Road         | 26.80             | Fire brigade Chowmuhani | Jackson Gate Chowmuhani                 | 1.33             | 1.33              | 2.66                 | 1.33                       |   | Work not started |
| 3.      | Mantribari Road      | 16.20             | Post Office Chowmuhani  | RMS Chowmuhani                          | 0.258            | 0.516             | 0.516                | 0.516                      |   | Work not started |
| 4.      | VIP Road             | 15.00 to 21.00    | Radhanagar Motorstand   | Lichubagan                              | 3.18             | 6.36              | 6.36                 | 4.76                       | Electrical cable trench construction work in progress<br>Length completed- 150 m  |                  |
| 5.      | Thakurpalli Road     | 12.70 to 15.00    | Ker Chowmuhani          | Purbasa Chowmuhani                      | 2.117            | 1.61              | 4.234                | 1.61                       |   | Work not started |
| 6.      | Sakuntala Road       | 17.50 to 19.90    | Surya Chowmuhani        | Rabindra Bhawan                         | 0.500            | 0.4               | 1.0                  | 0.4                        |   | Work not started |
| 7.      | GB Road              | 9.00 to 11.70     | GBchakra                | RamThakur Club Chowmuhani               | 4.050            | 6.81              | 8.1                  | 6.81                       | Electrical cable trench construction work in progress<br>Length completed- 7.5 m  |                  |
| 8.      | Barjala Road         | 12.00 to 16.00    | Durga Chowmuhani        | Barjala Chowmuhani                      | 4.050            | 7.592             | 8.1                  | 7.592                      | Electrical cable trench construction work in progress<br>Length completed- 1100 m |                  |
| 9.      | Ronaldsay Road       | 17.00             | Durga Chowmuhani        | Ker Chowmuhani/ Fire Brigade Chowmuhani | 1.100            | 2.2               | 2.2                  | 2.2                        |   | Work not started |

| Sr. No.             | Name of Road  | Available ROW (m) | Road Section      |                        | Road length (km) | Drain length (km) | Footpath length (km) | Utility trench length (km) | Overall progress up to 30 <sup>th</sup> June 2023 | Remarks          |
|---------------------|---|-------------------|-------------------|------------------------|------------------|-------------------|----------------------|----------------------------|---|------------------|
|                     |   |                   | From              | To                     |                  |                   |                      |                            |   |                  |
| 10.                 | Jail Ashram Road                                    | 11.00             | Ashram Chowmuhani | Lalbahadur Junction    | 1.547            | 3.094             | 3.094                | 3.094                      |   | Work not started |
| 11.                 | Jail Road   | 10.30             | Old central jail  | Mathchowmu hani        | 0.500            | 0.5               | 1.0                  | 0.5                        |   | Work not started |
| 12.                 | BT Road   | 13.00             | From Jail Ashram  | Old Jail Tri-Junction  | 0.280            | 0.28              | 0.56                 | 0.28                       |   | Work not started |
| 13.                 | Road Surrounding the proposed IT Hub Site (3 sides) | 11.00             | Jail Ashram Road  | B.T.Road               | 0.570            | 0.883             | 1.14                 | 0.883                      |   | Work not started |
| 14.                 | ITI Road  | 11.10 to 12.00    | G.B.Chakkar       | Proposed ICCC building | 0.390            | 0.78              | 0.78                 | 0.78                       |   | Work not started |
| 15.                 | Lankamura Road                                      | 11.10 to 15.00    | Akhaura Channel   | Proposed EWS site      | 0.210            | 0.42              | 0.42                 | 0.42                       |   | Work not started |
| <b>TOTALLENGTHS</b> |   |                   |                   |                        | <b>23.562</b>    | <b>39.735</b>     | <b>47.124</b>        | <b>38.135</b>              |   |                  |

**Table 2B: Major Works under MBB College Lake Revitalization Subproject and Progress**

| Location      | Component, Name of Sub Projects (Code No.)  | List of major works under the sub project  | Type of works continued at present (On 30 <sup>th</sup> June 2023) |
|---------------|---|--|--|
| Agartala city | MBB College Lake Revitalization including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002 | Refurbishment of the Existing Pathway (Area 1450 Sqm and 2 m wide)                 | Construction work is in progress                                   |
|               |   | Foot Bridge (Area 12 Sqm and 2 m wide)   | -  |
|               |   | Pontoon Bridge (Area 140Sqm and 3.5 m wide)  | -  |
|               |   | Renovation of Existing Gazebos (10 SQM and 14 nos.)                                | Work started   |
|               |   | Construction of a New Deck with Ticket Counter (Area 1100 Sqm and varying in wide) | -  |
|               |   | Ticket Counter (Area 35 Sqm and 2 nos. (1 New))                                    | -  |
|               |   | Construction of Play Area (Area 200 Sqm)   | Construction is in progress  |

| Location | Component, Name of Sub Projects (Code No.) | List of major works under the sub project  | Type of works continued at present (On 30 <sup>th</sup> June 2023) |
|----------|--|--|--|
|          |  | Construction of Amphitheatre (Area 225 Sqm)                                      | Construction is in progress  |
|          |  | Construction of Food Court (Area 160 Sqm)  | Construction of Food court is in progress                          |
|          |  | Installation of Fountain Plaza (Area 350 Sqm)                                    | -  |
|          |  | Construction of Public Toilets {120 SQM and 3 nos. (1 New)}                      | -  |
|          |  | Construction of Ghat 60 nos.   | -  |
|          |  | Up gradation of Boundary (Area 860 RM and 2 .4 M HT)                             | Work under progress  |
|          |  | Demolition and Construction of Watch Towers (Area 112 SQM and 2 NOS (7.765M HT)) | -  |
|          |  | <b>5 Years O &amp; M</b>   | -  |

**Table 2C: Major Works under Renovation and restoration of Ujjayanta Palace Subproject and Progress**

| Location        | Component, Name of Sub Projects (Code No.)  | List of major works under the sub project                                   | Type of works continued at present (On 30 <sup>th</sup> June 2023)  |
|-----------------|---|---|---|
| <b>Agartala</b> | Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003 | <b>Revival of North gate and transformation of <i>Astabal</i> Structure</b> | <b>Work under progress</b> <ul style="list-style-type: none"> <li><i>Astabal</i> Interior work pending.</li> <li><i>Astabal</i> Toilet block finishing work under progress</li> </ul> |
|                 |   | <b>Construction of Food Court</b>   | <b>Work under progress</b> <ul style="list-style-type: none"> <li>Food Court Finishing work under progress</li> <li>Pathway work is in progress</li> </ul>                            |
|                 |   | <b>Rear garden revival with multi-activity plaza and Amphitheatre</b>       | Amphitheatre landscaping and finishing work under progress  |
|                 |   | <b>Construction for Visitor Parking</b>                                     | 27 Nos Car parking spaces site clearing, and  |

| Location | Component, Name of Sub Projects (Code No.) | List of major works under the sub project   | Type of works continued at present (On 30 <sup>th</sup> June 2023)   |
|----------|--|---|--|
|          |  |   | boundary wall construction work completed and drain work under progress  |
|          |  | <b>Eastern Lake edge development</b>  | -  |
|          |  | <b>Revival of Eastern Pond</b>  | -  |
|          |  | <b>Revival of Western Pond</b>  | -  |
|          |  | <b>Renovation and Restoration of Front Palace Gardens and Facade Illumination</b>   | <ul style="list-style-type: none"> <li>• Restoration of Central Water Channel work in progress</li> <li>• Construction of Control Room of the Musical Fountains is in progress.</li> </ul> |
|          |  | <b>Additional Scope</b><br>a. Construction of steps and ramps for universal access to the palace complex.<br>b. Installation of information board and signages at strategic location.<br>c. Irrigation system to cover all the softscape areas<br>d. Modification of drainage network for entire site with suitable drain cover | -  |
|          |  | <b>5 years O &amp; M works</b>  | -  |

**B. Compliance of Safeguard Loan Covenants**

17. The loan agreement for ACUDP was signed on 12<sup>th</sup> November 2021 and details are available in ADB website (<https://www.adb.org/projects/documents/ind-53262-001-lna>).

18. **Table 3** provides a summary of compliance to the loan covenants related to environmental safeguards.

**Table 3: Compliance of Loan Covenants – Environment**

| Schedule/Para as per loan agreement                                       | Program Specific Covenants  | Status / Issues   |
|---|---|---|
| <b>SCHEDULE 4- Execution of the Project</b>                               |   |   |
| <b>Procurement</b>  |   |   |
| <b>Schedule 4, Para 4a</b>  | The Borrower shall ensure, or cause the EA to ensure, that no Works contract which involves environmental impacts is awarded until: The relevant authority of the Borrower and/or State, as required, has granted final approval of the IEE   | <b>Being Complied</b><br>Sub project works have been commenced after approval of IEE report from state and ADB  |
| <b>Schedule 4, Para4b</b>   | The EA has incorporated the relevant provisions from the EMP into the Works contract.   | <b>Being Complied</b><br>After environmental assessment relevant provisions of EMP attached in the bid document and works contract  |
| <b>Safeguards</b>   |   |   |
| <b>Schedule 4,Para 8</b>  | The Borrower shall ensure or cause the EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, and all Project facilities comply with (a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; (b) the Environmental Safeguards; (c) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report | <b>Being Complied</b><br>(a) All applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; shall being complied<br>(b) Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB.EMP implementation work under progress<br>(c) All measures and requirements as prescribed in IEE/EIA and EMP are being considered during implementation.<br>Corrective or preventive action plans will be reflected in Environment Monitoring Report and project implementation authority will take care of such actions as and when required. |
| <b>Human and Financial Resources to Implement Safeguards Requirements</b> |   |   |
| <b>Schedule 4, Para12.</b>  | The Borrower shall ensure, or cause the State to ensure, that all necessary budgetary and human resources to fully implement the EMP and the RP as required, are made   | <b>Being Complied</b><br>Budgetary provisions have been included in EMP.<br>Environment and Social Nodal officer/ Safeguard Specialist of   |



| Schedule/Para as per loan agreement  | Program Specific Covenants   | Status / Issues  |
|--|--|--|
|  | available on a timely basis  | Program Management Unit & PIUs; Project Management Consultant (PMC); and Independent Consultant (Environment& Safety) are in place under the Project.  |
| <b>Safeguards – Related Provisions in Bidding Documents and Works Contracts</b>  |  |  |
| <p><b>Schedule 4, Para13</b></p> <p><b>Schedule 4,Para13a</b></p> <p><b>Schedule 4, Para13b</b></p> <p><b>Schedule 4, Para13c</b></p> <p><b>Schedule 4, Para13d</b></p> <p><b>Schedule 4,Para13e</b></p> | <p>The Borrower shall cause the State to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures and requirements relevant to the contractor set forth in the IEEs, the EMPs, and any corrective or preventative actions set out in a Safeguards Monitoring Report;</p> <p>(b) make available a budget for all such environmental measures;</p> <p>(c) Provide the EA with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the RP;</p> <p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p> | <p><b>Being complied</b><br/>EMP, BOQ line items, reinstatement to pre-project conditions included in the contract agreement</p> <p>(a) Approved IEE, EMP are attached in Bidding documents and being comply with the measures and requirements relevant to the contractor set forth in the IEEs, the EMPs, and any corrective or preventative actions set out in a Safeguards Monitoring Report;</p> <p>(b) IEE indicates budgetary provisions for implementation of EMP</p> <p>(c) With the development of sub project and implementation, changes, if any will be reflected in the updated IEEs reports, and Environment Monitoring Report and accordingly project Executing Agency will inform the Construction Agency for taking relevant corrective measures to minimize risks. Till date no as such situation create for packages which is under implementation.</p> <p>(d) Haul roads marked properly (by avoiding residences) for transportation of materials.</p> <p>(e) Pathways, land which are likely to be affected for a short period during implementation of the sub project will be restored by concerned construction agency before acceptance of the work. Restoration status will be reflected in post construction monitoring report</p> |
| <b>Safeguards Monitoring and Reporting</b>   |  |  |
| <b>Schedule 4, Para14a</b>   | (a) The Borrower shall ensure, or cause the EA to ensure, the following: Submit semi-annual  | <p><b>Being Complied</b></p> <p>(a) This is 3<sup>rd</sup> Semi-annual Environment safeguard monitoring</p>  |

| Schedule/Para as per loan agreement                                 | Program Specific Covenants   | Status / Issues   |
|---|--|---|
| <p><b>Schedule 4, Para14b</b></p> <p><b>Schedule 4, Para14c</b></p> | <p>Safeguards Monitoring Reports to ADB during construction of the Works and annual Safeguards Monitoring Reports to ADB during operation of the Works, and disclose relevant information from such reports to affected persons promptly upon Submission;</p> <p>(b) If any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP and the RP. promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any breach of compliance with the measures and requirements set forth in the EMPs, promptly after becoming aware of the breach.</p> | <p>report for Project Loan for the period January to June 2023. The 2<sup>nd</sup> Semi-annual Environment Monitoring Report has been disclosed on the ADB's and Agartala Smart City Website.</p> <p>(b) With the development of project and implementation, additional impacts/ risks due to change in construction methodology, scope/area, has been reflected in updated IEEs, EMPs and accordingly Executing Agency (EA) has informed the ADB along with corrective action plan (as per requirement)</p> <p>(c) in case of any breach of compliance with the measures and requirements set forth in the EMP; EA will promptly inform ADB and suitable corrective action plan will be planned.</p> |
| <p>Prohibited List of Investments</p>                               |  |   |
| <p><b>Schedule 4, Para15</b></p>                                    | <p>The Borrower shall ensure, or cause the EA to ensure, that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 Of the SPS</p>  | <p><b>Complied</b><br/>Under sub projects there is no violation of prohibited investment activities as per ADB SPS (2009).</p>  |
| <p>Labor Standards Health &amp; Safety</p>                          |  |   |
| <p><b>Schedule 4, Para16</b></p>                                    | <p>The Borrower shall ensure, or cause the EA to ensure, that Works contracts under the Project follow all applicable labor laws of the Borrower and the State and that these further include provisions to the effect that contractors, (a) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (b) follow and implement all statutory provisions on labor (using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach</p>                              | <p><b>Being complied</b><br/>Provisions are included (as per EMP &amp; BID document) to carry out HIV/AIDS awareness programs for construction contractor, application of all relevant labour laws for health and safety including child labour law and engagement of local labours (preferably from economically backward group) covering women labours. No child labour engaged in the packages.</p> <p>Labour license and WC policy for workers available for all three sub projects. Project wise Labour license and WC Policy were enclosed under Appendix 2 of the earlier semiannual Environment Monitoring Report. Renewed copy</p>   |

| Schedule/Para as per loan agreement | Program Specific Covenants                   | Status / Issues  |
|-------------------------------------|--|--|
|                                     | of the stated provisions by the contractors. | of the Labour license and WC policy is enclosed in <b>Appendix 2</b> of the present SEMR<br>Equal pay for equal work -continued<br>HIV / AIDS awareness program and Health check-up camp for workers has been organized on 30/06/2023 for the Smart Road project and Ujjayanta Palace project. HIV / AIDS awareness program and Health check-up for workers has been organized on 29/06/2023 for MBB College Lake project. <b>Appendix 7</b> shows detail of health checkup camp. In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken up.<br>All activities including awareness program will be reflected in "Monitoring Report". |

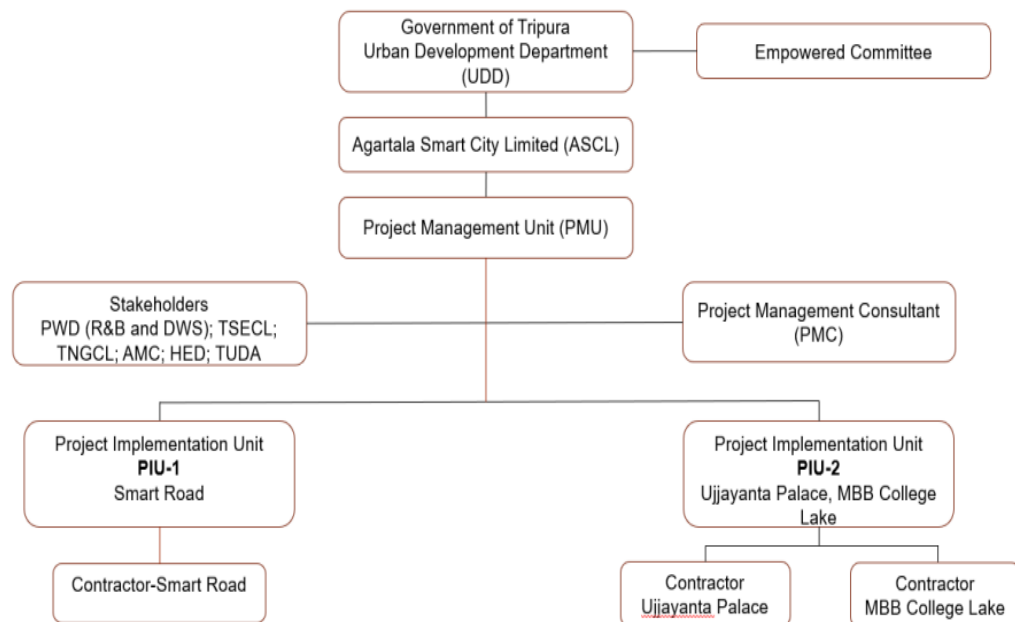
### C. Environmental and Social Organization and Management along with Implementation Arrangements

19. A State-Level Empowered Committee (SLEC) is established. The SLEC is chaired by the Chief Secretary, with Principal Secretary of the Power Department & PWD Department, GOT (CEO) is representing as member; Secretary, Urban Development & Tourism Department as Vice-Chairman; Secretary, Finance Department & Planning & Coordination, as member and Chief Executive Officer, Agartala Smart City Limited/ Project Director as member Secretary. The SLEC is empowered to take all decisions on behalf of the State and acts as a policy making body. A project management unit (PMU) headed by the CEO, ASCL as Project Director, AMC. Currently Project Director is having additional charge of Deputy Project Director (DPD), PMU and is supported by two project implementation units (PIUs) located in Agartala. The PIUs (namely PIU-1 and PIU-2) are assigned with the implementation of the subprojects under the overall direction of the PMU. PIU-1 is responsible for implementation of Smart Road Project and headed by DPD (Executive Engineer, ASCL), five junior engineers, senior software application support engineers and contractor's site engineers' & contractor's Environment Health and Safety (EHS) Officer. PIU-2 is responsible for the implementation of Ujjayanta palace and MBB College Lake subprojects and headed by Deputy Project Director (Executive Engineer, ASCL), four junior engineers, senior software application support engineers and contractor's site engineer's and contractor's EHS Officer.

20. ASCL is acting as executing and implementing agency for the loan and TA and implementing the project through a dedicated PMU based in Agartala and two dedicated PIUs (PIU-1 and PIU-2) also based in Agartala under the project. PMC appointed by GOT under smart city project and two individual consultants (for Environmental and Social Safeguard) appointed though ADB financing are currently supporting the PMU and the PIUs in project implementation and ensuring the required compliance as per Government of India (GoI) and ADB's SPS, 2009 requirements.

21. The PMU has constituted with 10 staff members from UDD, ASCL, and AMC as follows: (i) Project Director, (ii) Deputy Project Director, (iii) Procurement Specialist, (iv) Reform/Capacity Building Specialist, (v) Senior Engineer, (vi) Project Accountant, (vii) Project Secretary, (viii) Safeguards Specialist, (ix) Superintending Engineer, and (x) Public Engagement and Partnership Officer. The PMU is responsible for overall project planning, management, implementation, monitoring, and reporting for the project. PMU will also manage the project management consultant (PMC). The PIUs report to PMU and monitored by PMU to implement the projects in the field and manage contractors. PIUs manage the detailed design and construction supervision with support from PMC. Both PIUs is based at PMU office. One dedicated PIU is established in the field for the Smart Roads component. A second PIU is established in the field for the components comprised of Maharaja Bir Blkram (MBB) College Lake and Ujjayanta Palace.

22. Project organization structure is shown in **Figure 2**.



AMC = Agartala Municipal Corporation, ASCL = Agartala Smart City Limited, HED = Higher Education Department, PMU = Project Management Unit, PMC = Project Management Consultant, PIU 1 = Project Implementation Unit 1 (Smart Roads component), PIU 2 = Project Implementation Unit 2 (MBB College Lake and Ujjayanta Palace components), PWD = Public Work Department, R&B = Roads and Bridges, TNGCL = Tripura Natural Gas Company Limited, TSECL = Tripura State Electricity Corporation Limited, TUDA = Tripura Urban Planning and Development Authority, UDD = Urban Development Department.

Source: Asian Development Bank.

**Figure 2: Project Organization Structure**

**Safeguards Roles and Responsibilities:**

23. **Project Management Unit.** ACUDP has established PMU, headed by a dedicated project director. For project implementation, two PIUs established. The PMU is responsible for overall implementation of the Project, while the PIUs will support the PMU at component level. The social and environmental safeguards specialists (consultants) recruited and function as Project Management Consultants who has support PMU/ PIUs in safeguard compliance. The Board of Directors of ASCL has provide policy related directions and project oversight to PMU. The PMU is headed by a Project Director and is responsible for: (i) approval of detailed project reports; (ii) technical sanction on tender/bid evaluation; (iii) overall monitoring, supervision, and project implementation, (iv) approval of environmental monitoring reports, and (v) any other matter related to implementation of Environmental and Social Safeguards as per ADB requirements from time to time. The Board of Directors of ASCL may assign any other requirements related to ADB assisted project to PMU from time to time. Project specific PIUs will constitute of ASCL officials, supported by PMC team.

24. A Safeguard and Gender Cell (SGC) at PMU has overseen all safeguards and gender related activities. The SGC at PMU is to be headed by a Safeguard Specialist, who is the Environment and Social Nodal Officer of ASCL, to be provided with training on ADB SPS 2009. The Safeguard Specialist (E&S Nodal Officer-ASCL) report directly to the Project Director. The SGC have a gender expert for the entire project period who has report on the project's gender related results to the Project Director. ASCL has recruited individual consultant (Environment & safety expert) to provide project implementation support and ensure compliances with ADB requirements. The Nodal Officer has overall responsibility in implementation of the environmental safeguard requirements including appropriate monitoring and reporting responsibilities. Key tasks and responsibilities of the Nodal Officer are as follows:

25. **Nodal Officer (Environmental and Social) at PMU. Environmental Safeguard responsibilities,**

- a. Review and finalize subproject environmental category;
- b. Oversee preparation of IEEs; confirm existing IEEs/EMPs are updated based on detailed designs.
- c. Ensure that EMPs are included in bidding documents and civil works contracts;
- d. Provide oversight on environmental management aspects of sub projects and ensure EMPs are implemented by PIUs and contractors;
- e. Facilitate and ensure compliance with all government rules and regulations regarding site and environmental clearances, as well as any other environmental requirements (e.g., location clearance certificates, environmental clearance certificates, etc.), as relevant;
- f. Supervise and provide guidance to the PIUs to properly carry out the environmental monitoring as per the IEE/EMP;
- g. Review, monitor, and evaluate the effectiveness with which the EMPs are implemented, and recommend corrective actions to be taken as necessary;
- h. Consolidate monthly environmental monitoring reports from PIUs and submit semi-annual monitoring reports to ADB
- i. Ensure timely disclosure of final IEEs/EMPs in locations and form accessible to the public; and
- j. Address any grievances brought about through the grievance redress mechanism in a timely manner.

26. ACUDP establish two project level PIUs (one PIU for the Smart Roads component and one PIU for the MBB College Lake and Ujjayanta Palace components). Each PIU headed by Deputy Project Director (Executive Engineer, ASCL) and have an Environment and Social Safeguard Unit, which staffed two Safeguards Officers, one Environmental Safeguards Officer and one Social Safeguards Officer (Assistant Engineer rank officers). AEE is oversee the safeguards implementation at PIU level and report to Nodal Officer at PMU. Key tasks and responsibilities of AEE are as below:

27. **Assistant Environment Engineer (AEE) at PIU**

- a. Coordinate public consultation and information disclosure
- b. Liaise with local offices of regulatory agencies in obtaining clearances /approvals
- c. Oversee day-to-day implementation of EMPs by contractors, including compliance with all government rules and regulations, take necessary action for obtaining rights of way
- d. Ensure continuous public consultation and awareness
- e. Coordinate grievance redress process and ensure timely actions by all parties
- f. Review and forward Monthly EMP Monitoring Reports of Contractor to PMU

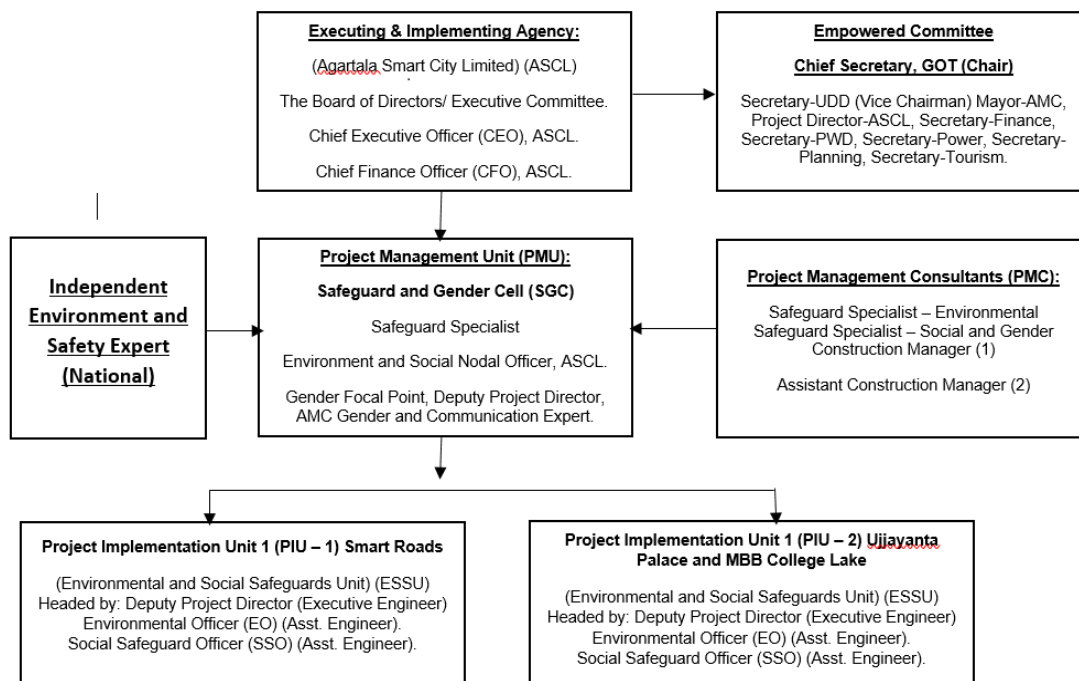
28. Social and Environmental safeguard consultants of PMC assist PMU and two PIUs for project implementation support. The PMC Safeguards Specialists support construction manager and the 2 deputy construction managers to take care of safeguards related tasks at field level. Following are the key tasks of environmental specialist of PMC.

- a. Assist in prepare / update REA checklist
- b. Assist in identification of sites/components in compliance with exclusion criteria and project environmental selection guidelines
- c. Assist in update / prepare IEE report
- d. Provide guidance and oversee work of EHS supervisor
- e. Assist in conduct public consultation & information disclosure
- f. Monitor the implementation of EMP by contractor; report effectiveness and identify the need for corrective actions; work closely with Environmental Specialist
- g. Assist in review monthly EMP implementation reports submitted by contractors
- h. Oversee and provide guidance to contractors on environmental monitoring (air, noise, etc.) as per the EMP
- i. Assist in preparing semi-annual Environmental Monitoring Reports
- j. Assist in grievance redress, and ensure redress
- k. Provide regular on-site training programs to contractors site staff and supervisors

29. **Environment Safeguards Tasks of PMC:** PMC assists SGC PMU to achieve compliance with the environmental management and monitoring requirements in accordance with ADB Safeguard Policy Statement 2009 and government policies and ensuring that the contractors and their sub-contractors design, construct and operate the project facilities in compliance with the same. Detailed tasks of the PMC include, but are not limited to, the following:

- Establish a system to monitor environmental safeguards of the Project; including the functioning of the GRM, and prepare indicators for monitoring important parameters of environmental safeguards;
- Support PMU to prepare semi-annual environment safeguard monitoring reports that will be appraised during project implementation;
- Support the PMU in ensuring that the environmental safeguard activities are carried out in accordance with the agreed plans and frameworks;

- Ensure that the relevant measures specified in the resettlement plans, and gender action plan will be incorporated in bidding documents and approved by ADB prior to issuance of invitation for bidding and monitor their compliance on behalf of PMU;
  - Ensure monitoring of social safeguards plans and gender action plan and address unanticipated impacts, if any; and
  - Provide training programs to PMU/PIU staff and contractors involved in the project implementation for strengthening their capacity in managing and monitoring social safeguards and gender.
30. PMC engage services of the following specialists as and when required to address site-specific environmental requirements as below:
- **Heritage Management Specialist.** Provides guidance on the ADB SPS requirement on Physical Cultural Resources in the ASC project including to conduct Heritage Impact Assessment, provides support on the statutory clearances to be obtained and the documentation and reporting on the implementation of mitigation measures; and
  - **Biodiversity Expert.** Provides guidance on the ADB SPS requirement on Biodiversity Conservation and Critical Habitat Assessment including the conduct preliminary screening (e.g., IBAT assessment reports), on-site verifications and consultations recommend specific measures and provide supervisor support during the planning and construction periods;
31. During implementation, contractor team included an Environmental, Health & Safety (EHS) Officer and a Social Supervisor.
32. The Nodal officer of PMU endorse/submit periodic monitoring reports received from PMC to the Individual Environment & Safety Expert, PMU who then submit these to ADB after finalization. The monitoring report focused on the progress of implementation of the IEE encountered and measures adopted, follow-up actions required, if any, as well as the status of compliance with subproject selection criteria, and relevant loan covenants. The PMU generally seek GoT clearance for submission and disclosure of the environmental and social monitoring report to ADB.
33. Safeguard implementation arrangement for the program is shown below.



**Figure 3: Safeguards Implementation Arrangement**

34. **Table 4** shows the details of the environmental safeguards team.

**Table 4: Details of ACUDP Environmental Safeguard Team**

|   |  |
|---|--|
| Environment & Social Nodal Officer -ASCL                | Name: Ms Mautusi Chaudhuri<br>Date of Mobilization:05.02. 2020<br>Office Address: Agartala Smart City Ltd, UD Bhawan,1st Floor, Near Rabindra Satabarshiki Bhaban, Agartala West Tripura,799001<br>Phone: 9436122069<br>E mail: mautusi@gmail.com                      |
| Independent Environment & Safety Consultant<br>PMU- ADB | Name: Dr Ardhendu Mitra<br>Date of Mobilization: 06.04.2022<br>Office Address: Agartala Smart City Ltd, UD Bhawan,1st Floor, Near Rabindra Satabarshiki Bhaban, Agartala West Tripura,799001<br>Phone: 9830415953<br>E mail: ardhendumitra@ gmail.com                  |
| PIU-1 Environmental Officer                             | Name &Position: Mr. Rahul Das, Asst Engineer<br>Date of Mobilization:08.04.2022<br>Office Address: Agartala Smart City Ltd, UD Bhawan,1st Floor, Near Rabindra Satabarshiki Bhaban, Agartala West Tripura,799001<br>Phone: 8794035809<br>Email: dasrahulnita@gmail.com |
| PIU-2 Environmental Officer                             | Position: Mr. Alok Debnath, Asst Engineer<br>Date of Mobilization 08.04.2022<br>Office Address: Agartala Smart City Ltd, UD Bhawan,1st Floor, Near Rabindra Satabarshiki   |



|                             |  |
|-----------------------------|--|
|                             | Bhaban, Agartala West Tripura,799001<br>Phone: 8729939542<br>Email: alokde79@gmail.com   |
| PMC, Environment Specialist | Name: Dr Anil Kumar Patni<br>Date of Mobilization:07.02.2022<br>Office Address: Agartala Smart City Ltd, UD Bhawan,1st Floor, Near Rabindra Satabarshiki Bhaban, Agartala West Tripura,799001<br>Phone: 9928252482<br>Email: akpatni@tce.co.in |

### III. ENVIRONMENTAL ASSESSMENT AND REVIEW PROCEDURE

#### A. Environmental Legislation and Pollution Control Acts

35. The Government of India has formulated various policy guidelines; acts and regulations aimed at the sustenance of environment in general, which are briefly summarized and applicable acts with the Project, are mentioned as below along with the environmental legislations applied in ACUDP.

- o The Water (Prevention and Control of Pollution) Act, 1974, as amended in 1988
- o The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987
- o Wildlife (protection) Act 1972
- o The Noise Pollution (Regulation and Control) Rules, 2000
- o The Environment (Protection) Act, 1986
- o The Public Liability Insurance Act, 1991 & Rule
- o The Ancient Monuments and Archaeological sites and Remains Act, 1958, and the rule, 1959. The Ancient Monuments and Archaeological Sites and Remains (Amendment and Validation) Act, 2010 and bill 2017
- o Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016
- o Solid Waste Management Rules, 2016
- o Construction and Demolition Waste Management Rules, 2016
- o EIA Notification, 1994, 2006, 2009
- o Forest (Conservation) Act 1980 and Indian Forest (Amendment) bill 2017
- o National Environment Policy, 2006
- o The Motor Vehicles Act, 1988, 2020 (Amended)
- o Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989; Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000
- o Mines and Minerals (Regulation and Development) Act, 1957 as amended in 1972
- o The Child Labor (Prohibition and Regulation) Amendment Act, 2016 The Child Labor (Prohibition and Regulation) Act, 1986
- o The National Green Tribunal (NGT) Act, 2010
- o Contract Labor (Regulation and Abolition) Act, 1970
- o The Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979
- o Minimum Wages Act, 1948.
- o Workmen Compensation Act, 1923.

## B. Compliance with Environmental Regulations

36. Before implementation (construction) of the project compliance with environmental policy, law and legislation is necessary. In order to ensure the compliances of State & National law Clearances and consents are required.

37. Under sub project status of Environment, forest and other clearances are mentioned below.

**Table 5: Present Status of Environment & Forest and Other Clearances**

| City     | Work (Package No.)   | Applicable Legislation/<br>Type of clearance   | Clearance given by<br>and date  | Remarks/ Action<br>needed as per<br>NOC  |
|----------|--|--|---|--|
| Agartala | Upgradation of Major Roads and Post Completion Maintenance for 05 (Five) Years vide Contract Package No. 001 | The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987<br>Also, for setting up hot mix plant, batching plant crusher Plant and use of diesel generator Consent to Establish (CTE) and Consent to Operate (CTO) | During implementation of project compliance with Air Act, Noise Rules and Water Act will be required<br><br>For acoustic type of Generator – CTE/CTO not required<br><br>CTE received for Hot Mix Plant, Batching Plant and Wet mix Macadam (WMM) plant which was attached in <b>Appendix 4</b> of SEMR. CTO for Hot Mix Plant, Batching Plant and Wet mix Macadam (WMM) plant received on 28/04/2023 and appended in <b>Appendix 4</b> of this report. |  |
|          |  | The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003  | Initially 520 trees proposed for cutting but as per construction design and confirmatory survey most of the trees shall be saved at project site.<br>If any trees are required to cut, the requisite tree cutting permission shall be obtained before cutting of it.  | Now after Joint site visits it has been finalized that total 157 nos. of trees felling required on Barjala road and payment request letter from Forest department for the same received on 09/06/2023 ( <b>Appendix 5</b> ). Process initiated for payment to get final NOC for tree felling from forest dept. |

| City     | Work (Package No.)  | Applicable Legislation/<br>Type of clearance   | Clearance given by<br>and date   | Remarks/ Action<br>needed as per<br>NOC  |
|----------|---|--|--|--|
| Agartala | MBB College Lake Revitalization including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002                       | Water (Prevention and Control of Pollution) Act. 1974/<br><br>The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987<br>Also, for setting up hot mix plant, batching plant and use of diesel generator Consent to Establish (CTE) and Consent to Operate (CTO) | During implementation of project compliance with Air Act, Noise Rules and Water Act will be required<br><br>For acoustic type of Generator - not required any CTE/CTO<br>CTE/CTO is required in case of establish of Hot Mix Plant, Crusher & Batching Plant         | No use of Hot Mix Plant, Crusher and Batching Plant for the project.   |
|          |   | The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003  | 3 nos. tree has been felled after receiving NOC from Forest Department on 20/02/2023<br><b>(Appendix 5)</b> . For the package work Forest dept. suggested on protection of wetland (Correspondence attached as <b>Appendix 5)</b>                                    |  |
| Agartala | Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003 | Water (Prevention and Control of Pollution) Act. 1974/<br><br>The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987<br>Also, for setting up hot mix plant, batching plant and use of diesel generator Consent to Establish (CTE) and Consent to Operate (CTO) | During implementation of project compliance with Air Act, Noise Rules and Water Act will be required<br><br>For acoustic type of Generator - not required any CTE/CTO<br><br>CTE/CTO is required in case of establishment of Hot Mix Plant, Crusher & Batching Plant | No Hot Mix Plant, Crusher & Batching Plant established by the contractor.<br>Construction materials procured through authorized source in compliant with environmental regulations of the country. |
|          |   | The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003  | At project area felling of one tree has been done and NOC was attached in the previous SEMR. During this report period no tree cutting is required   |  |

38. For Smart Road project, Tripura State Electricity Corporation Ltd. (TSECL) given permission for storage and reuse of Electric poles and Transformers and NOC was attached as Appendix 3 of previous SEMR.
39. NOC for abstract of ground water for Smart Road Project is attached in **Appendix 3** of the SEMR.
40. Though Ujjayanta Palace, under the project is old historic building but Directorate of Higher Education, Govt. of Tripura certified that the building is not a heritage building for conservation and declaration given on Appendix 6 of previous SEMR.
41. Forest NOC and Wetland status for MBB College Lake has been received from the Forest department and Tripura State Pollution Control Board on 27<sup>th</sup> Oct 2022. NOC is attached as **Appendix 5**.
42. For MBB Lake project implementation “Lake Conservation Guideline of Govt of Tripura, DST” will be followed, which was clarified by PMU of the ACUDP. Copy of said Conservation Guideline is attached as **Appendix 5** and the guidelines shall be followed during implementation of the Project, specifically construction activity within water.

#### IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

##### A. EMP Compliance Status

43. Field activities under progress for the sub project “Renovation and Restoration of Ujjayanta Palace”. Currently works are ongoing at *Astabal* area, food court area, rear garden area, multi-activity plaza and amphitheatre, visitor’s parking area and Front Palace Garden area. For Smart Road Package, currently electrical cable trench construction work is ongoing at Barjala Road and VIP Road. For MBB College Lake Package, construction work of Cafeteria, Machaan, boundary wall, Pilling work for Deck at Public Zone-B, construction for pathway around the lake is in progress. Application of EMP is under progress for all the 3 packages as per final approved IEE and updated IEE report & site-specific EMP. Compliance status for application of mitigation measures against impacts on air, water, soil environment, ecology, social and safety aspects for all the packages are shown in **Tables 6A to 6G** for Ujjayanta Palace package, **Table 7** for MBB Lake package and **Tables 8A to 8H** for Smart Road package. Base line and construction phase monitoring has been conducted by the contractors for Ujjayanta Palace Complex, MBB College Lake and Smart Road Project.
44. **Appendix 1** shows sample photo illustration of site activity and EMP implementation during the reporting period.
45. For Renovation and Restoration of Ujjayanta Palace package Labour License obtained, which is valid upto 29/09/2023, WC policy for workers received which is valid till 07/04/2024 and All Risk Policy is valid till 30/06/2025. For Maharaja Bir Bikram (MBB) College Lake Revitalization Package Labour License obtained which is valid upto 29/09/2023, and WC policy for workers received which is valid till 07/04/2024 and All Risk Policy has been received which is valid till 29/12/2025. For Smart Road Package Labour License received, which is valid till 19/05/2024. Labour Licence & policies enclosed in the earlier Semi-annual Environment

Monitoring Report. WC Policy received which is valid till 21/08/2023 and All Risk Policy valid till 31/01/2025. Copy of renewed Labour licence and WC Policy are attached in **Appendix 2**.

46. Health & Safety Plan SOP in response to COVID 19 under subprojects prepared and available with PMU/PIU and compliance of that is attached in the IEEs.

47. Smart road, Ujjayanta Palace & MBB Lake contractors have submitted Site Specific H & S Plan.

48. Health check-up of workers has been carried out for MBB College lake project, Ujjayanta Palace and Smart Road projects. Sample health check-up report is enclosed in **Appendix 7**. Tie-up of contractors with health institutes for medical check-up is also enclosed in **Appendix 7**.

**Table 6A: Pre-Construction phase Compliance of Environmental Management Plan (EMP) for Renovation and Restoration of Ujjayanta Palace**

| Activity  | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision     | Status   | Follow up if any |
|---|---|----------------------|--------------------------------|---------------------------------|--|------------------|
| Submission of updated site Specific environment Management Plan, EMP implementation and reporting | <ul style="list-style-type: none"> <li>The contractor shall designate a full-time environment, health, and safety (EHS) staff. The EHS staff shall supervise, monitor, and report on day-to-day compliance to requirements related to workers health and safety as specified in applicable laws, rules and regulations and EMP.</li> <li>The ESH staff shall possess are cognized degree or advanced diploma in industrial/construction safety.</li> <li>The ESH staff shall have practical experience in industrial/construction projects for a period of not less than 5 year.</li> <li>Submission of updated site-specific environmental management plan (SEMP); including work methodology and spoil management plan</li> <li>Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs.</li> </ul> | For all locations    | Contractor                     | PMC &PMU Environment Specialist | Full-time environment, health, and safety (EHS) staff appointed by Mecgale Premier world JV fulfilling mentioned criteria. |                  |
| EMP Implementation Training   | <ul style="list-style-type: none"> <li>Project manager and all keyworkers will be required to undergo training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OH&amp;S), core Labor laws, applicable environmental laws, etc.</li> </ul>  | For all locations    | Contractor                     | PMC &PMU Environment Specialist | Training given and continued as per requirements.  |                  |
| Environmental   | <ul style="list-style-type: none"> <li>Environmental monitoring through NABL</li> </ul>   | For all              | Contractor                     | PMC &PMU                        | Baseline   |                  |

|  |  |                   |            |                                 |   |  |
|--|--|-------------------|------------|---------------------------------|---|--|
| monitoring of baseline conditions of air, noise, water and soil              | approved laboratory.   | locations         |            | Environment Specialist          | monitoring has been conducted through NABL certified Lab. Construction phase monitoring has also been done on March 2023.   |  |
| Utilities  | <ul style="list-style-type: none"> <li>Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and</li> <li>Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services.</li> </ul>  | For all locations | Contractor | PMC &PMU Environment Specialist | Utility location will be identified and action will be taken as per plan to check unintentional interruption of services.   | Till date not required. Will be done in advance before start of construction at specific site and as per requirement |
| Construction work camps, stockpile areas, storage areas, and disposal areas. | <ul style="list-style-type: none"> <li>Total around 60 workers are expected for construction work. Contractor shall set up toilets with septic tank and soak pit at Labor camp. There will be generation of around 24 Kg per day of solid waste and 6.48 KLD of sewage from the Labor camps.</li> <li>Contractor shall arrange potable drinking water for workers in camp.</li> <li>Shall provide adequate number of separate toilets for male and female workers.</li> <li>Contractor shall provide bins for storage of solid waste and hand over the collected solid waste to AMC collection vehicles for processing.</li> <li>Fuel provision shall be made available in camp like LPG so that no tree cutting is</li> </ul> | Labor camp area   | Contractor | PMC &PMU Environment Specialist | <p>Toilets with septic tank and soak pit installed at site.</p> <p>Fresh potable drinking water available at site</p> <p>Bins are provided at proper location &amp; collected solid waste handed over to AMC collection</p> |  |

|   |  |                   |            |                                  |  |   |
|---|--|-------------------|------------|----------------------------------|--|---|
|   | <p>involved for fuel wood. Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.</p> <ul style="list-style-type: none"> <li>For excess spoil disposal, ensure (a) site shall be selected preferably from barren, infertile lands. In case agricultural and needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m away from surface water bodies; (c) no residential areas shall be located within 50 m downwind side of the site; and (d) site is minimum 250 m away from sensitive locations like settlements, ponds/ lakes, or other water bodies.</li> </ul> |                   |            |                                  | <p>vehicles.</p> <p>LPG used for cooking.</p> <p>Spoil managed as per spoil management plan.</p> |   |
| Consents, permits, clearances, NOCs, etc. | <ul style="list-style-type: none"> <li>Obtain all necessary consents, permits, clearance, NOCs, etc. prior to award of civil works.</li> <li>Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction</li> <li>Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc.</li> </ul>   | For all locations | Contractor | PMC & PMU Environment Specialist | Prior to start of civil work all necessary permission/ NOC will be obtained                      | Follow up is required for getting any such permission |

**Table 6B: Construction Phase Compliance of EMP for Revival of front Palace Garden and Facade illumination**

| Activity                  | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision             | Status   | Follow-up if any |
|---------------------------|--|----------------------|--------------------------------|---|--|------------------|
| Site Clearance activities | <ul style="list-style-type: none"> <li>Clearing of vegetation should be strictly as per layout.</li> <li>Clearance area should be marked with highly visible marking.</li> <li>Mark and barricade the work area</li> </ul> | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU Environment Specialist | Vegetation has been cleared and the work site has been marked. |                  |
|                           | <ul style="list-style-type: none"> <li>As the construction work is expected to disrupt visitors of Ujjayanta Palace,</li> </ul>  | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU                        | It was notified by the   |                  |



| Activity   | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any |
|--|---|----------------------|--------------------------------|--|--|------------------|
|  | notice shall be served well in advance to the Ujjayanta Palace authorities, Tourism department etc.,  |                      |                                | Environment Specialist                     | Contractor in advance. Display board and all signage boards have been placed at work site.                               |                  |
| Demolition of existing heritage structures and removal existing pipelines and fixtures of water fountain & Channel | <ul style="list-style-type: none"> <li>Regular Water spraying on surfaces and demolition stockpile.</li> <li>Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered.</li> </ul>  | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Water spraying is being done as and when required.<br><br>Vehicles carrying debris are covered with tarpaulins.          |                  |
|  | <ul style="list-style-type: none"> <li>Restrict the demolition work only during day time between 6 am to 6 pm.</li> </ul>   | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Demolition work has been already completed. In this period no demolition work at project site.                           |                  |
|  | <ul style="list-style-type: none"> <li>Around 240 cum of demolition debris in the form of broken bricks, RCC waste and 280 sq m of broken plaster will be generated. The Contractor shall suitably dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission.</li> <li>The old, removed pipelines and fixtures shall be stored at the proposed parking layout to avoid</li> </ul> | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Debris has been managed and disposed as per spoil management plan. Removed pipe and fixtures has been stored at specific |                  |

| Activity  | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any   |
|---|--|----------------------|--------------------------------|--|--|--|
|   | contamination of soil.   |                      |                                |  | location.  |  |
|   | <ul style="list-style-type: none"> <li>The debris shall not be disposed on walkways or pathways under any circumstances.</li> </ul>  | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | No debris was disposed on walkways or pathways.  |  |
| Excavation of soil for pergolas, pathways, embankment etc.,                 | <ul style="list-style-type: none"> <li>Water sprinkling on surface of dry areas</li> </ul>   | Stockpile area       | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Water sprinkling has been done manually.   | During summer season more water sprinkling will be required at dust production areas |
|   | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m from the adjacent Rajbari and Jagannathbari lake waters</li> </ul>   |                      | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Stockpiles were noted more than 5-meter distance from the water body   |  |
|   | <ul style="list-style-type: none"> <li>Restrict the high noise construction work only during day time between 6 am to 6pm.</li> </ul>  | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Construction work is limited in between 7am to 6 pm. During this period, no night work was done.                                 |  |
| Construction of pathways, embankment and pergola with seating arrangements. | <ul style="list-style-type: none"> <li>Alternate day cleaning shall be done for dust particles deposited on the structures of Ujjayanta palace due to the construction activity for the entire construction period.</li> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like material stockpiles, etc.,</li> <li>Stockpiles of raw/waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin</li> </ul> | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Cleaning of dust is being done frequently<br><br>Water sprinkling is being done twice a day in dry conditions.<br><br>Debris and |  |

| Activity | Environmental Management Measures   | Approximate Location                        | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any |
|----------|---|---|--------------------------------|--|--|------------------|
|          | during the entire construction activity.  |   |                                |  | stockpiles are being covered with tarpaulin and carried to final disposal site.  |                  |
|          | <ul style="list-style-type: none"> <li>The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction.</li> <li>Contractor shall construct silt fencing at the edges of the Rajbari and Jagannathbari lakes to prevent entry of soil and silt in the lakes.</li> <li>Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into lakes</li> </ul> | Front palace garden                         | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | <p>No excavation has been done by contractor, Mecgale Premier world JV on lake bed.</p> <p>Fencing will be done.</p> <p>Fine particles containing construction materials been stored within the enclosures</p> |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the Rajbari and Jagannathbari lakes.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> </ul>  | Front palace garden                         | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | It has been ensured that no construction material, waste disposed on water flow direction.   |                  |
|          | <ul style="list-style-type: none"> <li>Provide prior information to the identified sensitive receptors like MTB High School, Sukanta Academy and Children Park's authorities about the</li> </ul>   | Front palace garden and sensitive receptors | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Contractor, Mecgale Premier world JV. has notified   |                  |

| Activity  | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status  | Follow-up if any |
|---|--|----------------------|--------------------------------|--|---|------------------|
|   | <p>work schedule.</p> <ul style="list-style-type: none"> <li>Construction work shall be limited to day light hours (6AM to 6 PM) for all the works. Maintain maximum sound levels not exceeding 80decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</li> <li>Provision of ear-plugs to contractors exposed to high noise levels</li> </ul>     |                      |                                |  | <p>to sensitive receptors in advance about the work schedule</p> <p>Construction time was limited to morning 7 am to 6 pm and noise level has not exceeded 80 dbA mark. Ear plugs were available at site office. Noise level monitoring has been conducted in March 2023.</p> |                  |
| Handling of Bitumen for road works in front garden area | <ul style="list-style-type: none"> <li>Care shall be taken that the bitumen shall not be spilled and no leakage shall take place at site. The bitumen will decrease soil fertility and pollute the adjacent Rajbari and Jagannathbari Lake to phenolic compounds.</li> <li>Workers at site shall be trained on environmental damages of bitumen on soil and water</li> </ul> | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | No Bitumen leakage was observed during the construction of road at front garden.  |                  |
|   | <ul style="list-style-type: none"> <li>Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the</li> </ul>   | Front palace garden  | Construction Contractor        | PIU<br>PMC & PMU<br>Environment            | Worker training has been done & necessary   |                  |

| Activity | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision | Status                               | Follow-up if any |
|----------|---|----------------------|--------------------------------|-----------------------------|--------------------------------------|------------------|
|          | <p>workers employed in asphalt works.</p> <ul style="list-style-type: none"> <li>Workers shall be trained before handling of hot bitumen</li> </ul> |                      |                                | Specialist                  | PPEs has been arranged by Contractor |                  |

**Table 6C: Construction phase Compliance of EMP for Revival of North gate and Transformation of *Astabal***

| Activity  | Environmental Management Measures   | Approximate Location               | Responsible for Implementation | Responsible for Supervision                   | Status   | Follow-up if any   |
|---|---|------------------------------------|--------------------------------|---|--|--|
| Site Clearance activities   | <ul style="list-style-type: none"> <li>Only 1 tree of <i>Albizia</i> species, which is a common species identified near <i>Astabal</i> area under the project shall be cut after receiving clearance from the Forest Dept. (as applicable) and after the receipt of ASCL's written permission in this regard.</li> <li>Compensatory plantation will be done as per Forest Dept. Letter no. F.11-13/WFD/Deptt.Oprnt/2018-19/11595-597 dated 27-02-2020. The compensatory plantation cost will be included together with Smart Roads compensatory plantation budget.</li> </ul> | North gate and <i>Astabal</i> area | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | <p>Tree cutting NOC received and money has been deposited to Forest Department. Tree has been removed by forest department under guidance of Agartala Municipal Council (AMC).</p> <p>Compensatory Plantation will be done by the Forest Department.</p> | Compensatory Plantation (1:2) will be done as per Forest Department conditions |
| Renovation of <i>Astabal</i> and North Gate and Construction of Toilets at North Gate | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles.</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin</li> </ul>  | North gate and <i>Astabal</i> area | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | <p>GI sheet barricading provided at site</p> <p>Manual water sprinkling done as per climatic</p>   |  |

| Activity | Environmental Management Measures  | Approximate Location                                | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any |
|----------|--|---|--------------------------------|--|--|------------------|
|          | <p>during the entire construction activity.</p> <ul style="list-style-type: none"> <li>Covering of material or waste laden vehicles with tarpaulin and restricting speed limit of vehicles &lt;20 kmph.</li> </ul>   |   |                                |  | <p>conditions. Stockpiles covered with tarpaulin.</p> <p>Waste carrying vehicles moved with tarpaulin cover and restricting speed limit of vehicles &lt;20 kmph.</p>   |                  |
|          | <ul style="list-style-type: none"> <li>Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line</li> </ul>   | Connecting road from Thakurpalli road to North gate | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Traffic movement was not stopped.  |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that no waste disposed of in the Rajbari and Jagannathbari lakes.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>In addition to the design requirements, the Contractor shall take all required measures as directed by the Environment safeguard officer of PIU to prevent temporary or permanent flooding of the site or any adjacent area.</li> </ul> | North gate and <i>Astabal</i> area                  | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | <p>No waste disposed in the Rajbari &amp; Jagannathbari Lakes. The waste transferred to AMC DC nagar lunga site as per spoil management plan.</p> <p>Permission obtained for disposal of Solid and Construction &amp; Demolition (C &amp; D) waste<br/><b>(Appendix 4)</b></p> |                  |

| Activity | Environmental Management Measures   | Approximate Location              | Responsible for Implementation | Responsible for Supervision                             | Status  | Follow-up if any  |
|----------|---|-----------------------------------|--------------------------------|---|---|---|
|          |   |                                   |                                |   | <p>Taking all necessary measures to avoid blockage of water flow.</p> <p>Precautionary steps have been taken in consultation with Environment safeguard officer of PIU regarding temporary or permanent flooding of site or adjacent areas.</p> |   |
|          | <ul style="list-style-type: none"> <li>Construction work shall be limited to daylight hours (6 AM to 6 PM) for all the works.</li> <li>Maintain maximum sound levels not exceeding 80 decibels (dB) when measured at 10 m or more from the vehicles &amp; equipment.</li> <li>Provision of earplugs to workers exposed to high noise levels.</li> </ul> | <p>North gate and Astabalarea</p> | <p>Construction contractor</p> | <p>PIU<br/>PMC &amp; PMU<br/>Environment Specialist</p> | <p>Construction work limited during daytime</p> <p>During this period (Jan to June 2023), no construction activity is recorded during the night time and in case of night work, noise level should be within the permissible limit.</p>         | <p>Regular measurement of noise level in case of night work</p> |

| Activity | Environmental Management Measures | Approximate Location | Responsible for Implementation | Responsible for Supervision | Status   | Follow-up if any |
|----------|-----------------------------------|----------------------|--------------------------------|-----------------------------|--|------------------|
|          |                                   |                      |                                |                             | Maximum noise level has not crossed 80 dB.<br><br>Ear plug was available at site |                  |

**Table 6D: Construction Phase Compliance of Environmental Management Plan for New Food Court and Visitors Parking area**

| Activity   | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any |
|--|--|----------------------|--------------------------------|--|--|------------------|
| Demolition of existing structure for proposed food court | <ul style="list-style-type: none"> <li>Provision of tin sheet barricading shall be made for prevention of dust emission out of site.</li> <li>Regular Water spraying on surfaces and demolition stockpile.</li> <li>Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered</li> </ul> | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | GI sheet barricading provided at site<br>Water spraying done during dry conditions.<br>Debris carrying vehicle covered with tarpaulins & moved as per spoil and traffic management plan. |                  |
|  | <ul style="list-style-type: none"> <li>Prevention of noise going out of site.</li> <li>Restrict the demolition work only during day time between 6 am to 6 pm</li> <li>Provide ear plugs to workers exposed to the noise in the site</li> </ul>  | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Ensured noise level within permission limit<br>In this reporting period, no demolition work was conducted.<br>Ear plugs available at site for use by workers as per requirement          |                  |



| Activity                                     | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status  | Follow-up if any |
|--|--|----------------------|--------------------------------|--|---|------------------|
|  | <ul style="list-style-type: none"> <li>Around 139 cum of demolished broken bricks, 8000 kgs of steel, 93 cum of demolished RCC waste. The Contractor shall suitably dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission</li> </ul> | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC. Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste ( <b>Appendix 4</b> )                         |                  |
|  | <ul style="list-style-type: none"> <li>The debris shall not be disposed on road, walkways or pathways.</li> </ul>  | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Debris not disposed on the road, walkway, or pathways.  |                  |
| Excavation of soil for food court structures | <ul style="list-style-type: none"> <li>Restrict the construction work only during day time between 6 am to 6pm.</li> </ul>   | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Construction work restricted to only during daytime between 7 am and 6 pm. During this period, no construction activity recorded at nighttime and in case of night work, noise level should be within the permissible limit of night time |                  |
|  | <ul style="list-style-type: none"> <li>Consult with AMC in identifying deep excavation for columns and piles foundations at food court sites.</li> <li>Provide hard barricades and signboards to warn of dangerous</li> </ul>  | Food Court           | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Before deep excavation on specified location contractor has consulted with  |                  |

| Activity   | Environmental Management Measures   | Approximate Location                                | Responsible for Implementation | Responsible for Supervision                | Status   | Follow-up if any |
|--|---|---|--------------------------------|--|--|------------------|
|  | conditions  |   |                                |  | AMC.<br>GI sheet barricades and signage boards provided to warn of dangerous conditions<br>Improvement of barricading is necessary                         |                  |
| Construction works of food kiosks, visitors parking lot, boundary wall etc., | <ul style="list-style-type: none"> <li>Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move in connecting road.</li> <li>In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions.</li> </ul> | Connecting road from Thakurpalli road to North gate | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Boundary wall construction undergoing for visitor's parking area.<br><br>Traffic movement not restricted, since sufficient space / road width is available |                  |

**Table 6E: Construction Phase Compliance of EMP for Rear Garden, Multiactivity plaza and Amphitheatre**

| Activity                  | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status   | Follow up if any |
|---------------------------|---|----------------------|--------------------------------|--|--|------------------|
| Site Clearance activities | <ul style="list-style-type: none"> <li>Clearing of vegetation should be strictly as per layout.</li> <li>Clearance area should be marked with highly visible marking.</li> </ul>  | Rear Garden area     | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Vegetation cleaned properly and cleared area being properly marked.                                      |                  |
|                           | <ul style="list-style-type: none"> <li>The topsoil removed from the rear garden area shall be stored in stock piling area proposed in the parking premises of the proposed plan</li> <li>Site grading and excavation to be</li> </ul> | Rear Garden area     | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Topsoil stored in the stockpile area of parking premise.<br>Topsoil preserved and relocated as per plan. |                  |

| Activity  | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision                | Status   | Follow up if any |
|---|---|----------------------|--------------------------------|--|--|------------------|
|   | <p>undertaken during dry season and topsoil to be preserved and relocated after construction activities.</p> <ul style="list-style-type: none"> <li>Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert.</li> </ul>   |                      |                                |  | <p>Earthwork sealed and /or re-vegetated with the help of landscape expert.<br/>Soil stability maintained at work site/ excavated area</p>   |                  |
| Construction of multi activity plaza and amphitheater | <ul style="list-style-type: none"> <li>Alternate day cleaning shall be done for dust particles deposited on the structures of Ujjayanta palace due to the construction activity for the entire construction period.</li> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like temporary raw material and waste stockpiles,</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc. shall be covered with tarpaulin during the entire construction activity.</li> </ul> | Rear Garden area     | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | <p>Alternate day cleaning is done manually.</p> <p>Manual water sprinkling is done as per requirement</p> <p>Debris is covered with tarpaulin.</p>   |                  |
|   | <ul style="list-style-type: none"> <li>Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works.</li> <li>Provide ear plugs to all workers working in high noise (80 dbA) generating areas.</li> </ul>  | Rear Garden area     | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | <p>Construction work is limited in between 7 am to 6 pm. During this period, work was carried out during daytime</p> <p>Ear plugs are available at Mecgale Premier world JV site office.</p> |                  |
|   | <ul style="list-style-type: none"> <li>The vehicles plying construction materials shall not be parked on roads</li> </ul>   | Rear Garden area     | Construction contractor        | PIU<br>PMC & PMU<br>Environment            | <p>Vehicle moved as per traffic management plan and were not</p>   |                  |

| Activity | Environmental Management Measures | Approximate Location | Responsible for Implementation | Responsible for Supervision | Status          | Follow up if any |
|----------|-----------------------------------|----------------------|--------------------------------|-----------------------------|-----------------|------------------|
|          |                                   |                      |                                | Specialist                  | parked on road. |                  |

**Table 6F: Construction Phase Compliance of EMP for Eastern Lake Edge Development and Revival of Eastern Lake**

| Activity   | Environmental Management Measures  | Approximate Location   | Responsible for Implementation | Responsible for Supervision                | Status           | Follow up if any |
|--|--|------------------------|--------------------------------|--|------------------|------------------|
| Demolition of existing brickworks and plastering | <ul style="list-style-type: none"> <li>Regular Water spraying on dry surfaces and demolition stockpile.</li> <li>Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered</li> </ul>  | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|  | <ul style="list-style-type: none"> <li>Restrict the demolition work only during daytime between 6 am to 6pm and the noise level shall be below &lt;80 dBA so that it should not affect the Agartala Town Library.</li> </ul>   | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|  | <ul style="list-style-type: none"> <li>Around 36 cum of demolished broken bricks, 5200 kgs of steel and 468 m<sup>2</sup> of broken plastering material will be generated. The Contractor shall suitably dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission.</li> </ul> | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|  | <ul style="list-style-type: none"> <li>The debris shall not be disposed on adjacent road, walkways or pathways.</li> <li>Complaint register shall be kept at the construction site, the grievances registered by the general public related to nuisance</li> </ul>   | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |

| Activity  | Environmental Management Measures   | Approximate Location   | Responsible for Implementation | Responsible for Supervision                | Status           | Follow up if any |
|---|---|------------------------|--------------------------------|--|------------------|------------------|
|   | and disturbance to movement shall be addressed immediately.   |                        |                                |  |                  |                  |
| Excavation of soil and Stockpile  | <ul style="list-style-type: none"> <li>Water sprinkling on surface of temporary stockpiles</li> <li>Covering of stockpiles with tarpaulins</li> </ul>   | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|   | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m away from the adjacent Rajbari lake water</li> </ul>  | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|   | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in designated stockpiling area</li> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby water course.</li> </ul>  | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
| Construction of pathways and Construction of viewing deck and provision of floating jetty | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity.</li> </ul>  | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |
|   | <ul style="list-style-type: none"> <li>The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction.</li> <li>Contractor shall construct silt fencing at the edge of the lake to prevent entry of soil and silt in lake water.</li> <li>Contractor shall ensure that construction materials containing</li> </ul> | Eastern Lake Edge area | Construction contractor        | PIU<br>PMC & PMU<br>Environment Specialist | Work not started |                  |

| Activity | Environmental Management Measures  | Approximate Location        | Responsible for Implementation | Responsible for Supervision                   | Status           | Follow up if any |
|----------|--|-----------------------------|--------------------------------|---|------------------|------------------|
|          | fine particles are stored in an enclosure such that sediment laden water does not drain into lakes.  |                             |                                |   |                  |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the Rajbari Lake.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> </ul>  | Eastern Lake<br>Edge area   | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | Work not started |                  |
|          | <ul style="list-style-type: none"> <li>Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works.</li> <li>Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</li> </ul>  | Eastern Lake<br>Edge area   | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | Work not started |                  |
|          | <ul style="list-style-type: none"> <li>Ensure that work is conducted onto edge of the road; allow traffic to move on one line.</li> <li>In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions.</li> <li>Construction vehicles shall not be parked on the road after work completion.</li> </ul> | Eastern Lake<br>Edge area   | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | Work not started |                  |
|          | <ul style="list-style-type: none"> <li>Provide temporary barricades on the edges of the lakes to prevent fall of workers or public</li> <li>Lifejackets shall be provided by the</li> </ul>  | Eastern Lake<br>development | Construction contractor        | PIU<br>PMC & PMU<br>Environment<br>Specialist | Work not started |                  |

| Activity | Environmental Management Measures  | Approximate Location   | Responsible for Implementation | Responsible for Supervision | Status           | Follow up if any |
|----------|--|------------------------|--------------------------------|-----------------------------|------------------|------------------|
|          | contractor during the construction period at the site  |                        |                                |                             |                  |                  |
|          | <ul style="list-style-type: none"> <li>• Provide bins at regular intervals for dropping of solid wastes like water bottles, tea cups, empty packets etc.,</li> <li>• The bins shall be emptied daily, and solid waste shall be handed over to AMC collection staff.</li> <li>• The people littering the place shall be fined.</li> </ul> | Eastern Lake Edge area | O&M Contractor                 | PMU                         | Work not started |                  |

**Table 6G: Comprehensive Compliance of Environmental Management Plan for Ujjayanta Palace Revival and Restoration**

| Activity                  | Environmental Management Measures  | Approximate Location                 | Responsible for Implementation | Responsible for Supervision                | Status   | Follow up if any   |
|---------------------------|--|--------------------------------------|--------------------------------|--|--|--|
| Site Clearance activities | <ul style="list-style-type: none"> <li>• Clearing of vegetation should be strictly as per layout.</li> <li>• Clearance area should be marked with highly visible marking.</li> <li>• Only 1 tree of Albizia species is identified near <i>Astabal</i> area under the project shall be cut after receiving clearance from the Forest Dept. (as applicable) and after the receipt of ASCL's written permission in this regard.</li> <li>• Compensatory plantation will be done as per Forest Dept. Letter no. F.11-</li> </ul> | Ujjayanta Place Construction premise | Construction Contractor        | PIU<br>PMC & PMU<br>Environment Specialist | <p>Tree cutting NOC for 1 number of tree has been received from forest dept. Tree removed by forest Department under guidance of AMC. Completion certificate from Forest Dept. attached in previous SEMR report Appendix 5. In this report period no tree felling has been done.</p> <p>Compensatory plantation will be done by the Forest Department.</p> | Compensatory plantation (1:2) will be done (preferably just before monsoon) as per Forest Department conditions. |

|                                   |   |                                      |                         |  |  |  |
|-----------------------------------|---|--------------------------------------|-------------------------|--|--|--|
|                                   | <p>13/WFD/Deptt.0prnt/2018-19/11595-597dated 27-02-2020. The compensatory plantation cost will be included together with Smart Roads compensatory plantation budget.</p>  |                                      |                         |  |  |  |
|                                   | <ul style="list-style-type: none"> <li>As the construction work is expected to disrupt visitors of Ujjayanta Palace and lakes, notice shall be served well in advance to the Ujjayanta Palace authorities, Tourism department etc.,</li> </ul>                    | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Notice has been served in advance to the Ujjayanta Palace authorities, Tourism department etc., before start of work inside the tourist area.  |  |
| Demolition of existing structures | <ul style="list-style-type: none"> <li>Regular Water spraying on surfaces and demolition stockpile.</li> <li>Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered</li> </ul> | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Water spraying is being done.<br><br>Vehicles are being covered with tarpaulins.   |  |
|                                   | <ul style="list-style-type: none"> <li>Restrict the demolition work only during daytime between 6 am to 6 pm</li> </ul>   | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Demolition work at the Central water Channel has been limited in between 7 am to 6 pm. During this report period, no construction was done during the nighttime and in case of night work, noise level should be within the permissible limit. |  |
|                                   | <ul style="list-style-type: none"> <li>Around 523 cum of demolition debris will be generated in the form of broken bricks, demolished RCC and</li> </ul>  | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Contractor, Mecgale Premier world JV has suitably disposed off the unutilized debris materials at the centralized facility of DC Nagar Lunga site  |  |



|  |   |  |                                |   |  |  |
|--|---|--|--------------------------------|---|--|--|
|  | <p>broken plaster. The Contractor shall suitably dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission</p>  |  |                                |   | <p>of AMC Permission obtained for disposal of Solid and Construction &amp; Demolition (C &amp; D) waste (<b>Appendix 4</b>)</p>  |  |
|  | <ul style="list-style-type: none"> <li>The debris shall not be disposed on road, walkways or pathways.</li> <li>Complaint register shall be kept at the construction site, the grievances registered by the general public related to nuisance and disturbance to movement shall be addressed immediately.</li> </ul> | <p>Ujjayanta Place<br/>Construction premise</p>  | <p>Construction Contractor</p> | <p>PIU<br/>PMC &amp; PMU<br/>Environment Specialist</p> | <p>The debris was not disposed on road, walkways, or pathways. Complain register is available at site office.</p>  |  |
|  | <ul style="list-style-type: none"> <li>The vehicles speed shall be adhered to specified limits of 15 Kmph in site to avoid dust generation</li> <li>The vehicles transporting materials and entering site shall have PUC certificates and shall be in good condition.</li> </ul>                                      | <p>Mining area</p>   | <p>Construction Contractor</p> | <p>PIU<br/>PMC &amp; PMU<br/>Environment Specialist</p> | <p>Vehicle speed is limited to 15 kmph and is having PUC certificates.</p>   |  |
| <p>Consumption Of construction materials</p> | <ul style="list-style-type: none"> <li>Contractor should obtain material from existing mines approved/ licensed by Mines and Geology Department/ Revenue Department.</li> <li>Verify suitability of all material sources and obtain approval of</li> </ul>  | <p>Mines listed by Tripura Government as specified in the website:<br/><a href="http://trpervis.ni.c.in/test/natura">http://trpervis.ni.c.in/test/natura</a></p> | <p>Construction Contractor</p> | <p>PIU<br/>PMC &amp; PMU<br/>Environment Specialist</p> | <p>Contractor, Mecgale Premier world JV has obtained material from concerned approved authority. A monthly statement has been submitted to PIU for construction material procured indicating material type, source, and quantity</p> |  |

|                                  |  |                                  |                         |  |  |  |
|----------------------------------|--|----------------------------------|-------------------------|--|--|--|
|                                  | <p>implementing agency</p> <ul style="list-style-type: none"> <li>• Submit a monthly statement of construction material procured indicating material type, source and quantity.</li> <li>• For new quarry if Environmental Clearance is applicable to be obtained.</li> <li>• Adequate safety precautions shall be ensured during transportation of quarry material from quarries to the construction site. Vehicles transporting the material shall be covered to prevent spillage</li> </ul> | <a href="#">l_resources.html</a> |                         |  | Vehicles transporting the material were covered to prevent spillage if any.                                |  |
|                                  | <ul style="list-style-type: none"> <li>• The vehicles shall be maintained properly to reduce the noise.</li> <li>• Silencers shall be provided for high noise generating vehicles.</li> </ul>  | Mining areas                     | Construction Contractor | PIU<br>PMC & PMU<br>Environmental Specialist | All vehicles used have new and competent silencers.  |  |
| Excavation of soil and Stockpile | <ul style="list-style-type: none"> <li>• Water sprinkling on surface of stockpiles</li> <li>• Covering of stockpiles with tarpaulins</li> </ul>  | Stockpile area                   | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist   | Water is being sprinkled on surface of stockpiles and stockpiles covered with tarpaulins.                  |  |
|                                  | <ul style="list-style-type: none"> <li>• Stockpiles shall be at least 5 m from the Rajbari and Jagannathbari lake water</li> </ul>   | Stockpile area                   | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist   | Stockpile was kept at more than 5-meter distance from lake   |  |
|                                  | <ul style="list-style-type: none"> <li>• Restrict the construction work only during day time between 6 am to 6 pm.</li> </ul>  | Stockpile area                   | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist   | Construction work was limited in between 7 am and 6 pm. During this report period, no night work was done. |  |

|  |   |   |                         |  |   |  |
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|  | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in designated areas as shown in Figure.</li> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>Prioritize re-use of excess soils and debris in the construction works.</li> </ul> | Stockpile area                          | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Excavated earth was stored in designated areas.<br>Excavated earth stockpile was covered so that sediment laden water does not drain into nearby watercourse. |  |
|  | <ul style="list-style-type: none"> <li>Consult with AMC in identifying deep excavation areas on construction sites</li> <li>Provide hard barricades and signboards to warn of dangerous conditions</li> </ul>   | Ujjayanta Place<br>Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Hard barricades and sign boards being provided to warn about dangerous conditions.  |  |
| Usage of Construction vehicles and equipment | <ul style="list-style-type: none"> <li>Limit of vehicle speed to 20 kmph within site.</li> <li>Periodical air quality monitoring shall be done during construction phase.</li> </ul>  | Ujjayanta Place<br>Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Vehicle speed was limited to 20 kmph within site.<br>As per EMP periodical air quality monitoring was done during construction period.                        |  |
|  | <ul style="list-style-type: none"> <li>The vehicles shall be maintained regularly.</li> <li>Vehicles and machineries working in premises shall have valid PUC certificate.</li> </ul>   | Ujjayanta Place<br>Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Vehicles and machineries have valid PUC certificate.  |  |
|  | <ul style="list-style-type: none"> <li>The vehicles and equipment shall be maintained properly to reduce the noise.</li> <li>Enclosures and silencers shall be provided for high noise generating</li> </ul>  | Ujjayanta Place<br>Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Silencers were not required in the reporting period but Silencers will be provided for high noise generating equipment.                                       |  |

|  |  |                                      |                         |  |   |  |
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|  | <p>equipment.</p> <ul style="list-style-type: none"> <li>Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms.</li> <li>The storage area shall in the designated area in the proposed parking lot during the entire construction stage as per the site plan</li> <li>DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms.</li> </ul>             | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Fuel, oil, lubricants and other chemicals, and equipment's were stored over concrete platforms.   |  |
| Storage of Oil, fuel, lubricants and other hazardous materials | <ul style="list-style-type: none"> <li>Hazardous materials like paints, solvents, fuel and oils shall be stored only when it is necessary</li> <li>The storage locations in premises shall be in the designated area in the proposed parking area as per the site plan</li> <li>Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water bodies.</li> </ul> | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | <p>Only Oil was stored in closed storage area.</p> <p>Water quality monitoring has been done in March 2023 through NABL certified lab to check the impact of leakage/ spillage on water bodies if any.</p>    |  |
| Construction works   | <ul style="list-style-type: none"> <li>Alternate day cleaning shall be done for dust particles deposited on the structures of Ujjayanta palace due to the construction activity for the entire construction period.</li> </ul>   | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | <p>Alternate day cleaning is being done.</p> <p>Sprinkling of water is being done as per requirement.</p> <p>Stockpiles are covered with tarpaulin.</p> <p>During this period, No DG sets have been used.</p> |  |

|  |  |   |                                    |   |  |  |
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|  | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles, roads etc.,</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc. shall be covered with tarpaulin during the entire construction activity.</li> <li>DG sets if used for construction activity shall meet the required emission standards.</li> <li>Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity</li> </ul> |   |                                    |   | <p>Periodic air quality monitoring has been done for the construction period, last on March 2023. Base line monitoring has been done earlier before start of construction.</p>   |  |
|  | <ul style="list-style-type: none"> <li>The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction.</li> <li>Contractor shall construct silt fencing at the edges of Rajbari and Jagannathbari lakes throughout the entire stretch of construction area. The fencing shall be provided prior to commencement of the work.</li> <li>Contractor shall ensure that construction</li> </ul>   | <p>Ujjayanta Place<br/>Construction<br/>premise</p> | <p>Construction<br/>Contractor</p> | <p>PIU<br/>PMC &amp; PMU<br/>Environment<br/>Specialist</p> | <p>Contractor has not excavated bed of the lakes. Contractor will construct silt fencing at the edges of Rajbari and Jagannathbari lakes. Construction materials containing fine particles are being stored within an enclosure.</p> |  |

|  |  |   |                         |  |  |  |
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|  | materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into lakes  |   |                         |  |  |  |
|  | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the Rajbari and Jagannathbari lakes.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>In addition to the design requirements, the Contractor shall take all required measures as directed by the Environmental Specialist of PIU to prevent temporary or permanent flooding of the site or any adjacent area</li> </ul> | Ujjayanta Place Construction premise                                  | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | No construction materials were disposed off in a manner that block the flow of water to and from the Rajbari and Jagannathbari lakes. Contractor, Mecgale Premier world JV has taken all necessary measures to prevent any blockage to the water flow. All required measures were taken to prevent flooding of the site. |  |
|  | <ul style="list-style-type: none"> <li>All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards.</li> <li>Construction work shall be limited today light hours (6 AM to 6 PM) for all the works.</li> <li>Provide prior information to the identified sensitive</li> </ul>  | Ujjayanta Place Construction premise and sensitive receptor locations | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | All Construction equipment used in construction are strictly conform to the MoEFCC/ CPCB noise standards. During this period, only daytime work has been carried out, no night work was done. Prior information was provided to the identified sensitive receptors about the work schedule                               |  |

|  |  |                                      |                         |  |   |  |
|--|--|--------------------------------------|-------------------------|--|---|--|
|  | <p>receptors about the work schedule;</p> <ul style="list-style-type: none"> <li>Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers the sound impact to surrounding sensitive receptors.</li> <li>Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles&amp; equipment.</li> <li>Provision of ear-plugs to workers exposed to high noise levels.</li> <li>Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body.</li> </ul> |                                      |                         |  | <p>To minimize and control the noise adequate measures was taken.<br/>Periodic Noise monitoring was done at selected locations.</p> |  |
|  | <ul style="list-style-type: none"> <li>Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas</li> <li>Avoid disposal of any debris and waste soils in and around the lakes' premises.</li> <li>Coordinate with PIU for beneficial uses of excess excavated soils or</li> </ul>   | Ujjayanta Place Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | <p>Debris and raw materials were stockpiled at designated location.<br/>Debris was managed as per spoil management plan.</p>        |  |

|  |   |   |                         |   |   |  |
|--|---|---|-------------------------|---|---|--|
|  | immediately dispose to DC Nagar Lunga site.   |   |                         |   |   |  |
|  | <ul style="list-style-type: none"> <li>Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line;</li> <li>In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions;</li> <li>At all work sites public information/caution boards in English and local language (Bengali) shall be provided information shall inter-alia include: project name, cost and schedule; executing agency and contractor details; nature and schedule of work at that road/ locality; traffic diversion details, if any; entry restriction information; competent official's name and contact for public complaints.</li> <li>Prepare a Traffic Management Plan</li> </ul> | Connecting road from Thakurpalli road to North gate | Construction Contractor | PIU<br>PMC & PMU<br>Environment<br>Specialist | Road was not closed completely during work. Alternative routes will be provided if required. Public information boards placed at site. Traffic management plan developed and will be applied as per requirement |  |
|  | <ul style="list-style-type: none"> <li>Provide temporary barricades on the edges of the lakes to prevent fall</li> </ul>  | Eastern lake development                            | Construction Contractor | PIU<br>PMC & PMU<br>Environment               | Temporary barricades will be provided on the edges of the lake.   |  |



|  |   |                 |                         |  |   |  |
|--|---|-----------------|-------------------------|--|---|--|
|  | <p>of workers or public</p> <ul style="list-style-type: none"> <li>Lifejackets shall be provided by the contractor during the construction period at the site</li> </ul>  |                 |                         | Specialist                                 | Life jacket will be available during work.  |  |
|  | <ul style="list-style-type: none"> <li>No material should be stocked insensitive area; material shall be brought to the site as and when required</li> <li>Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles</li> <li>No work should be conducted near the Jagannathbari and Lakshminarayanbari temples during religious congregations.</li> <li>Material transport to the site should be arranged considering Ujjayanta Palace College timings.</li> <li>Implement all measures suggested elsewhere in this report - dust and noise control, public safety, traffic management, strictly at these sites.</li> </ul> | Sensitive areas | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | <p>In sensitive area no material was stocked, and work has been done with minimum disturbances.</p> <p>No work will be done at specified religious place.</p> <p>Material was transported after and before starting of college/ school hour.</p> <p>All precautionary measures were strictly followed at these sites.</p> |  |
|  | <ul style="list-style-type: none"> <li>The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass</li> </ul>   | Disposal Site   | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Surplus excavated earth has been managed locally as per spoil management plan & was not being dumped on any agricultural, grass land or water   |  |

|   |  |   |                         |  |  |  |
|---|--|---|-------------------------|--|--|--|
|   | land or water bodies which contaminate the soil and water bodies of Agartala.  |   |                         |  | bodies.  |  |
|   | <ul style="list-style-type: none"> <li>The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place.</li> <li>Contractor shall be penalized for disposal of wastes in private/ unauthorized lands or water bodies.</li> </ul>   | Disposal Site                           | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Waste was only disposed at AMC DC Nagar Lunga site as per spoil management plan. Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste ( <b>Appendix 4</b> )                     |  |
| Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes | <ul style="list-style-type: none"> <li>Around 2000 cum of surplus excavated earth, 93 cum of demolished RCC wastes and 748 m2 of broken plaster shall be disposed of in DC Nagar Lunga AMC dump site.</li> <li>Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission.</li> <li>Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust.</li> <li>The vehicles carrying wastes shall be checked for their PUC certificate and its fitness.</li> </ul> | Ujjayanta Place<br>Construction premise | Construction Contractor | PIU<br>PMC & PMU<br>Environment Specialist | Spoil has been managed as per spoil management plan. All safety precautions were taken to minimize the environmental effect. Vehicles carrying wastes have satisfying mentioned criteria and safety precautions. |  |

**Table 7: Compliance of Environmental Management Plan for MBB College Lake project**

| Activity  | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision          | Status   | Follow-up if any |
|---|---|----------------------|--------------------------------|--------------------------------------|--|------------------|
| Submission of updated environmental management plan (EMP)/site environmental plan (SEP); EMP implementation and reporting | <ul style="list-style-type: none"> <li>The contractor shall designate a full-time environment, health and safety (EHS) staff. The EHS staff shall supervise, monitor and report on day-to-day compliance to requirements related to workers health and safety as specified in applicable laws, rules and regulations and EMP.</li> <li>The EHS staff shall possess a recognized degree or advanced diploma in industrial/construction safety.</li> <li>The EHS staff shall have practical experience in industrial/construction projects for a period of not less than 5 years.</li> <li>Submission of updated EMP/ site specific environmental management plan (SEMP); including work methodology and spoil management plan</li> <li>Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs.</li> </ul> | For all locations    | Construction contractor        | PIU and PMC's Environment Specialist | <p>A full-time environment, health, and safety (EHS) staff was mobilized at site.</p> <p>Site Specific EMP submitted as per revised piling methodology.</p> <p>Baseline monitoring done and report submitted by the contractor.</p> <p>Construction phase monitoring has been carried out in March 2023.</p> |                  |
| EMP Implementation Training   | <ul style="list-style-type: none"> <li>Project manager and all key workers will be required to undergo training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OH&amp;S), core labor laws, applicable environmental laws,</li> </ul>  | For all locations    | Construction contractor        | PIU and PMC's Environment Specialist | Training given as per requirements, recently safeguard training was arranged for Project Manager and all key workers on 22/06/2023. All documents available with contractor, PIU,  |                  |

| Activity  | Environmental Management Measures  | Approximate Location              | Responsible for Implementation | Responsible for Supervision                                  | Status   | Follow-up if any  |
|---|--|-----------------------------------|--------------------------------|--|--|---|
|   | etc.   |                                   |                                |  | PMU and PMC  |   |
| Environmental monitoring of baseline conditions of air, noise, water and soil | <ul style="list-style-type: none"> <li>Environmental monitoring through NABL approved laboratory</li> </ul>  | For all locations                 | Construction contractor        | PIU PMU and PMC's Environment Specialist                     | Baseline Monitoring has been done through NABL approved laboratory.  |   |
| Utilities   | <ul style="list-style-type: none"> <li>Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and</li> <li>Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services.</li> </ul>                  | For all locations                 | Construction contractor        | PIU PMU and PMC's Environment Specialist                     | Utility location already identified, and action has been taken as per plan regarding unintentional interruption of services. |   |
| Consents, permits, clearances, NOCs, etc.                                     | <ul style="list-style-type: none"> <li>Obtain all necessary consents, permits, clearance, NOCs, etc. prior to award of civil works.</li> <li>Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction</li> <li>Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc.</li> </ul> | For all locations                 | Construction contractor        | PIU PMU and PMC's safeguard specialist                       | Prior to civil work all necessary permission has been taken from concern authorities.<br><b>Appendix 2 to 5</b>              |   |
| Site Clearance activities   | <ul style="list-style-type: none"> <li>Clearing of vegetation should be strictly as per layout and only ground cover/ shrubs that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard | Clearing of vegetation, marking of area has been done as per guidelines.<br>Regarding retention of                           | Process of non-felling of trees will be continued till end of all works under the package |

| Activity | Environmental Management Measures   | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any  |
|----------|---|-----------------------------------|--------------------------------|---|--|---|
|          | <p>Environmental Expert of PMC.</p> <ul style="list-style-type: none"> <li>Clearance area should be marked with highly visible marking.</li> <li>Plantation of 815 trees is a part of MBB lake revitalizations project, all possible care should be taken to ensure retention of these trees.</li> </ul>  |                                   |                                | specialist  | trees all possible care have been taken through judicial modification of design  | Compensatory plantation will be done after completion of work |
|          | <ul style="list-style-type: none"> <li>The topsoil removed from around 13905 m<sup>2</sup> area shall be stored in areas as shown in Site Plan.</li> <li>Site grading and excavation to be undertaken during dry season and topsoil to be preserved and relocated after construction activities.</li> <li>Earthen bund to be provided around the storage areas for excavated soil and other construction material.</li> <li>Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert.</li> </ul> | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Topsoil has been stored in designated stockpile area.</p> <p>Site grading &amp; excavation will be limited to dry season. Earthen bund has been provided. Earthwork will be sealed and/or re-vegetated with the help of landscape expert.</p> |   |
|          | <ul style="list-style-type: none"> <li>Monitor area for fauna prior to clearing operation, with catcher to remove fauna for release elsewhere; when the clearing is complete, fauna spotter/catcher should remain on call.</li> </ul>   | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Area for fauna has been monitored by Biodiversity expert in December 2022 & necessary steps has been taken as per suggested by expert.   |   |
|          | <ul style="list-style-type: none"> <li>Water sprinkling on surface of soil stockpiles.</li> <li>Use tarpaulins to cover sand and other loose material when transported by vehicles</li> </ul>   | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water has been sprinkled as per requirement. Loose materials were covered with tarpaulins during transportation.   |   |

| Activity   | Environmental Management Measures  | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status  | Follow-up if any |
|--|--|-----------------------------------|--------------------------------|---|---|------------------|
|  | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m from the MBB lake water.</li> <li>Stockpiles should be provided with earthen bunds.</li> </ul>   | Stockpile area                    | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Distance of stockpile was more than 5 meters from MBB college lake water & earthen bunds have been provided                     |                  |
|  | <ul style="list-style-type: none"> <li>While working at the MBB Lake, contractor shall not obstruct/ prevent the flow of water between Haora River, and MBB Lake through the existing culvert.</li> <li>As the construction work is expected to disrupt users of MBB lake, notice shall be served well in advance to the affected community like nearby residents, Angling society, MBB College authorities etc.,</li> </ul> | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Flow of water was not obstructed.<br><br>Notice has been served to concern authority well in advance.                           |                  |
|  | <ul style="list-style-type: none"> <li>Prepare a contingency plan to include actions to be done in case of unintentional interruption of services.</li> <li>In case of disruption of water supply, alternative supply through tankers, shall be provided; water may be made available.</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Interruption of service will be prevented as far as possible.<br>Due to construction work no water supply services interrupted. |                  |
| Demolition of existing watch tower, refurbishment of structures like cafeteria, gazebos etc. | <ul style="list-style-type: none"> <li>Regular Water spraying on surfaces and demolition stockpile.</li> <li>Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Demolition work has not carried out during report period.   |                  |
|  | <ul style="list-style-type: none"> <li>Restrict the demolition work only during daytime between 8 am to 6</li> </ul>   | Entire MBB lake construction      | Construction contractor        | Environment safeguard officer of PIU                                    | Demolition work shall be done in between 8 am to 6 pm. In case of   |                  |

| Activity | Environmental Management Measures  | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status  | Follow-up if any |
|----------|--|-----------------------------------|--------------------------------|---|---|------------------|
|          | pm   | site                              |                                | PMU and PMC's safeguard specialist                                      | night work, ensure that generated noise level will be within the permissible limit.   |                  |
|          | <ul style="list-style-type: none"> <li>269.5 cum of demolition debris will be generated in the form of broken tiles and paver blocks, scarified bitumen, broken plaster etc. The Contractor shall suitably dispose of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission</li> <li>Contractor should ensure to reuse the scarified bituminous wastes (27cum) within the site for road surface, the disposal of surplus waste shall be carried out over a 30 mm thick layer of rammed clay to eliminate the possibility of scarified percolation of leachate into the ground water.</li> </ul> | Lake area and demolition sites    | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Spoil has been managed as per spoil management plan. Scarified bituminous wastes will be reused accordingly (if condition permits). Otherwise, it will be disposed of as per spoil management plan. |                  |
|          | <ul style="list-style-type: none"> <li>The debris shall not be disposed in walkways or pathways.</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Debris has not been disposed on walkways or pathways.   |                  |
|          | <ul style="list-style-type: none"> <li>The contractor shall ensure that the demolition debris shall not be disposed/ stored in a manner to block the flow from or to MBB Lake.</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Flow to and from MBB college lake shall not be affected due to demolition debris.   |                  |

| Activity   | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|--|---|----------------------|--------------------------------|---|--|------------------|
|  |   |                      |                                | safeguard specialist  |  |                  |
| Relocation of existing Transformer near fisheries department | The relocation of transformer should be done in the presence of TSECL officials. The removed transformer should be immediately transported to the storage site if TSECL until further installation/reuse. | Fisheries Department | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Transformer relocation will be done in presence of TSECL officials. The removed transformer will be transported to the TSECL for further work. NOC has been obtained and given in previous SEMR report Appendix 3. |                  |
| Labor Camp Set up  | <ul style="list-style-type: none"> <li>Contractor shall set up toilets with septic tank and soak pit at Labor camp.</li> </ul>  | Labor Camp area      | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Toilet has been set up at the site with septic tank and soak pit.  |                  |
|  | <ul style="list-style-type: none"> <li>Contractor shall provide bins for storage of solid waste and handover the collected solid waste to AMC collection vehicles for processing.</li> </ul>              | Labor Camp area      | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Bins has been provided at specific locations.  |                  |
|  | <ul style="list-style-type: none"> <li>Fuel provision shall be made available in camp like LPG so that no tree cutting is involved for fuel wood.</li> </ul>  | Labor Camp area      | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | No use of fuel wood at the site.   |                  |



| Activity                              | Environmental Management Measures   | Approximate Location  | Responsible for Implementation | Responsible for Supervision   | Status  | Follow-up if any |
|---------------------------------------|---|---|--------------------------------|---|---|------------------|
|                                       | <ul style="list-style-type: none"> <li>Contractor shall arrange potable drinking water for workers in camp.</li> <li>Shall provide adequate number of separate toilets for male and female workers.</li> </ul>  | Labor Camp area   | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Drinking water available at the site.   |                  |
| Consumption of construction materials | <ul style="list-style-type: none"> <li>Contractor should obtain material from existing mines approved/ licensed by Mines and Geology Department/ Revenue Department.</li> <li>Verify suitability of all material sources and obtain approval of implementing agency</li> <li>Submit a monthly statement of construction material procured indicating material type, source and quantity.</li> <li>For new quarry if Environmental Clearance is applicable to be obtained.</li> <li>Adequate safety precautions shall be ensured during transportation of quarry material from quarries to the construction site. Vehicles transporting the material shall be covered to prevent spillage</li> </ul> | Mines listed by Tripura Government as specified on the website: ( <a href="http://trpervis.nic.in/test/natural_resources.html">http://trpervis.nic.in/test/natural_resources.html</a> ) | Construction contractor        | PIU and PMU   | <p>Contractor has obtained materials from existing mines approved/ licensed by Geology Department/ Revenue Department.</p> <p>Vehicles transporting the material were covered properly to prevent any spillage.</p> |                  |
| Excavation of soil and Stockpile      | <ul style="list-style-type: none"> <li>Water sprinkling on surface of stockpiles</li> </ul>   | Stockpile area  | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water has been sprinkled on stockpiles.   |                  |

| Activity | Environmental Management Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status  | Follow-up if any |
|----------|--|----------------------|--------------------------------|---|---|------------------|
|          | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m from the MBB lake water</li> </ul>   | Stockpile area       | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Distance of stockpile is more than 5 meters from MBB college lake water.  |                  |
|          | <ul style="list-style-type: none"> <li>Restrict the construction work only during day time between 8 am to 6 pm.</li> </ul>  | Stockpile area       | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Construction work was restricted between 8 am and 6 pm time frame. During this report period, no night work was done.   |                  |
|          | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in designated areas as shown in image.</li> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>Prioritize re-use of excess soils and debris in the construction works.</li> </ul> | Stockpile area       | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Excavated earth has been stored in designated area.</p> <p>All necessary precautions have been taken regarding excavated earth stockpile.</p> <p>Excess soils and debris have been re-used or disposed off according to spoil management plan.</p> |                  |
|          | <ul style="list-style-type: none"> <li>Consult with AMC in identifying deep excavation areas on construction maps</li> <li>Provide hard barricades and sign boards to warn of dangerous conditions</li> </ul>  | Stockpile area       | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard            | Hard barricades and signage boards have been provided to warn about dangerous conditions. Boards should be sufficient   |                  |

| Activity                                     | Environmental Management Measures  | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|--|--|-----------------------------------|--------------------------------|---|--|------------------|
|  |  |                                   |                                | specialist  |  |                  |
| Usage of Construction vehicles and equipment | <ul style="list-style-type: none"> <li>Water sprinkling on Kaccha/ mud roads.</li> <li>Limit of vehicle speed to 20 kmph within site.</li> <li>Periodical air quality monitoring shall be done during construction phase.</li> </ul> | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water has been sprinkled on Kaccha / mud roads. Vehicle speed is limited to 20 kmph within site. Base line air quality monitoring has been done in January 2022. Construction phase monitoring has been done in March 2023 as per monitoring plan. |                  |
|  | <ul style="list-style-type: none"> <li>The vehicles shall be maintained regularly.</li> <li>Vehicles and machineries working in premises shall have PUC certificate</li> </ul>   | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Vehicles have a valid PUC certificates and machineries as required will be used and the PUC documents will be provided for the same.   |                  |
|  | <ul style="list-style-type: none"> <li>The vehicles and equipment shall be maintained properly to reduce the noise.</li> <li>Enclosures and silencers shall be provided for high noise generating equipment.</li> </ul>              | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Vehicles and equipment have been properly maintained to reduce the noise generation. Silencers will be provided for high noise generating equipment.   |                  |
|  | <ul style="list-style-type: none"> <li>Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms.</li> <li>The storage area shall in the designated area as per the site plan.</li> </ul>                      | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Fuel, oil, lubricants and other chemicals, and equipment will be stored at designated area on concrete   |                  |

| Activity   | Environmental Management Measures   | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status  | Follow-up if any |
|--|---|-----------------------------------|--------------------------------|---|---|------------------|
|  | <ul style="list-style-type: none"> <li>DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms.</li> </ul>   |                                   |                                | safeguard specialist  | platforms.  |                  |
| Storage of Oil, fuel, lubricants and other hazardous materials | <ul style="list-style-type: none"> <li>Hazardous materials like paints, solvents, fuel and oils shall be stored only when it is necessary</li> <li>The storage locations in premises shall be in the designated area with the storage area as per the site plan.</li> <li>Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water body.</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Only Oil and Polymer was stored during this reporting period. Base line water quality monitoring has been done in January 2022. During construction phase, monitoring was done in March 2023, as per monitoring plan. |                  |
| Construction works   | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles, roads etc.,</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity.</li> <li>DG sets if used for construction activity shall meet the required emission standards.</li> <li>Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity</li> </ul> | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Sprinkling of water has been done. Stockpiles were covered with tarpaulin. No DG Sets were used during this reporting period. Construction phase monitoring has been done in March 2023.                              |                  |
|  | <ul style="list-style-type: none"> <li>The Contractor shall not excavate bed of the MBB lake at any location for borrowing earth for embankment construction.</li> <li>Contractor shall construct silt fencing at the base of the embankment</li> </ul>   | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Contractor has not excavated bed of the lakes.<br><br>Contractor will construct silt fencing at the edges of MBB college lakes  |                  |

| Activity           | Environmental Management Measures   | Approximate Location                                     | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|--------------------|---|--|--------------------------------|---|--|------------------|
|                    | <p>construction for the entire perimeter of MBB lake and around the stockpiles at the construction sites. The fencing shall be provided prior to commencement of earthwork and continue till the stabilization of the embankment slopes.</p> <ul style="list-style-type: none"> <li>Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into MBB Lake</li> </ul>   |  |                                |   | <p>regarding it and collect all silt in a separate area and disposed as per norms.</p> <p>Construction materials containing fine particles were stored in an enclosure &amp; necessary precaution was taken regarding it.</p>  |                  |
|                    | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed off in a manner that block the flow of water to and from the MBB lake.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>In addition to the design requirements, the Contractor shall take all required measures as directed by the Environmental Specialist of PIU to prevent temporary or permanent flooding of the site or any adjacent area.</li> </ul> | MBB lake   | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>No construction materials were disposed off in a manner that blocked the flow of water from MBB college lake.</p> <p>Contractor, Mecgale Pneumatics Pvt Ltd has taken all necessary measures to prevent any blockage to the water flow.</p> <p>All required measures will be taken to prevent flooding of the site.</p> |                  |
| Construction works | <ul style="list-style-type: none"> <li>All Construction plants and equipment used in construction shall strictly conform to the MOEFCC/ CPCB noise standards.</li> <li>Construction work shall be limited to day light hours (6 AM to 6 PM) for all</li> </ul>  | Entire MBB lake construction site and sensitive receptor | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard            | All Construction equipment used during construction were strictly conformed to the MoEFCC/ CPCB noise level standards.   |                  |

| Activity           | Environmental Management Measures   | Approximate Location              | Responsible for Implementation | Responsible for Supervision                                  | Status  | Follow-up if any |
|--------------------|---|-----------------------------------|--------------------------------|--|---|------------------|
|                    | <p>the works near the MBB Lake. In case of night works SOP will be developed and necessary permission will be obtained and maintaining of night time noise standard.</p> <ul style="list-style-type: none"> <li>• Provide prior information to the identified sensitive receptors about the work schedule;</li> <li>• Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers the sound impact to surrounding sensitive receptor; and use hydraulic or vibro impact hammers in place of diesel hammers for piling work;</li> <li>• Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</li> <li>• Provision of ear-plugs to contractors exposed to high noise levels.</li> <li>• Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body.</li> </ul> | locations                         |                                | specialist   | <p>Construction work was restricted during day light hours (8 AM to 6 PM)</p> <p>During this report period, no construction was done during the night time and in case of night work, noise level should be within the permissible limit.</p> <p>Prior information has been given to the identified sensitive receptors about the work schedule.</p> <p>To minimize and control the noise adequate measures shall be taken</p> <p>Baseline Noise monitoring has been done in January 2022 and Construction phase monitoring has been done last in the March 2023, as per the EMP.</p> |                  |
| Construction works | <ul style="list-style-type: none"> <li>• Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas.</li> <li>• Avoid disposal of any debris and waste soils in and around the MBB</li> </ul>  | Entire MBB lake construction site | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard | <p>Debris and raw materials were stockpiled at designated location.</p> <p>Debris were managed</p>  |                  |

| Activity | Environmental Management Measures  | Approximate Location              | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|----------|--|-----------------------------------|--------------------------------|---|--|------------------|
|          | <p>lake premise or other forest and nearby water bodies.</p> <ul style="list-style-type: none"> <li>Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose off to DC Nagar site</li> </ul>   |                                   |                                | specialist  | <p>as per spoil management plan. Regarding beneficial use of excess excavated soil Coordination with PIU was done. Permission has been obtained for disposal of Solid and Construction &amp; Demolition (C &amp; D) waste (<b>Appendix 4</b>)</p>  |                  |
|          | <ul style="list-style-type: none"> <li>Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line</li> <li>In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions;</li> <li>At all work sites public information/ caution boards in English and local language (Bengali) shall be provided - information shall inter-alia include: project name, cost and schedule; executing agency and contractor details; nature and schedule of work at that road/ locality; traffic diversion details, if any; entry restriction information; competent official's name and contact for public complaints.</li> <li>Prepare a Traffic Management Plan.</li> </ul> | Approach road of MBB College Road | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Road is not completely closed during work. Alternative routes will be provided if required as per the traffic management plan. Public information boards have been placed at site. At all work sites public information/ caution boards in English and local language has been provided Traffic management plan has been prepared before traffic diversion and permission to be received from Traffic Department for any diversion.</p> |                  |
|          | <ul style="list-style-type: none"> <li>No material should be stocked in</li> </ul>   | Sensitive                         | Construction                   | Environment   | In sensitive area no   |                  |

| Activity | Environmental Management Measures   | Approximate Location                     | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|----------|---|--|--------------------------------|---|--|------------------|
|          | <p>sensitive area; material shall be brought to the site as and when required</p> <ul style="list-style-type: none"> <li>• Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles</li> <li>• No work should be conducted near the Shiv Mandir during religious congregations.</li> <li>• Material transport to the site should be arranged considering MBB College and Tripura Government College timings.</li> <li>• Notify MBB College and Tripura Government College 2 weeks prior to the work; conduct a 30 minute awareness program at on nature of work, likely disturbances and risks and construction work, mitigation measures in place, entry restrictions and dos and don'ts</li> <li>• Implement all measures suggested elsewhere in this report - dust and noise control, public safety, traffic management, strictly at these sites.</li> </ul> | <p>areas</p>                             | <p>contractor</p>              | <p>safeguard officer of PIU PMU and PMC's safeguard specialist</p>  | <p>material has been stocked and work continued with minimum disturbance.</p> <p>Preferred, work with small group of workers and less noise; minimized use of equipment and vehicles No work was done at specified religious place.</p> <p>Material was transported to the site considering the college timings such that no interruption occurs.</p> <p>Prior to work concerned authority was notified.</p> <p>Implemented all measures suggested - dust and noise control, public safety, traffic management, strictly at these sites.</p> |                  |
|          | <ul style="list-style-type: none"> <li>• Training of all workers regarding anti-poaching of migratory bird species</li> <li>• Noise levels should be kept minimum</li> <li>• Habitat conservation for feeding and breeding of migratory birds shall be done.</li> </ul>   | <p>Entire MBB lake construction site</p> | <p>Construction contractor</p> | <p>Environment safeguard officer of PIU PMU and PMC's safeguard</p> | <p>Proper training has been given to workers regarding anti-poaching of migratory bird species.</p>  |                  |



| Activity  | Environmental Management Measures   | Approximate Location          | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|---|---|-------------------------------|--------------------------------|---|--|------------------|
|   | <ul style="list-style-type: none"> <li>Prevention of pollution of lake either by wastewater or solid waste</li> <li>Raising awareness within local people through lectures, workshops, informative boards, posters and engaging them in clean up drives.</li> </ul>   |                               |                                | specialist  | <p>Noise level was as minimum as possible.</p> <p>Wastewater or solid waste was properly taken care of without polluting lake water.</p> <p>Raising awareness within local people through workshops, information boards and posters has been done.</p>   |                  |
| Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes | <ul style="list-style-type: none"> <li>1167 cum. of surplus excavated earth, 269.5 cum. of demolition debris, 60 cum. of RCC wastes and 32 cum. of broken brick wastes shall be disposed of in DC Nagar Lunga AMC dump site.</li> <li>Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission.</li> <li>Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust.</li> <li>The vehicles carrying wastes shall be checked for their PUC certificate and its fitness.</li> </ul> | Project area and surroundings | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Contractor, Mecgale Pneumatics Pvt Ltd has suitably disposed of the unutilized debris materials at the centralized facility of DC Nagar Lunga site of AMC.</p> <p>Permission obtained for disposal of Solid and Construction &amp; Demolition (C &amp; D) waste (<b>Appendix 4</b>)</p> <p>Water sprinkled as and when required to reduce the dust emission.</p> <p>Debris was covered with tarpaulin and before loading waste into the vehicles water was sprinkled to the</p> |                  |

| Activity | Environmental Management Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status   | Follow-up if any |
|----------|---|----------------------|--------------------------------|---|--|------------------|
|          |   |                      |                                |   | stockpiles.<br>Vehicles carrying waste was complied with proper pollution norms.   |                  |
|          | <ul style="list-style-type: none"> <li>The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass land or water bodies which contaminate the soil and water bodies of Agartala.</li> </ul>                                 | Disposal Site        | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Surplus excavated earth was managed as per spoil management plan and not dumped on any agricultural land, grass land or water bodies which further contaminates the soil and water bodies of Agartala. |                  |
|          | <ul style="list-style-type: none"> <li>The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place.</li> <li>Contractor shall be penalized for disposal of wastes in private/unauthorized lands or water bodies.</li> </ul> | Disposal Site        | Construction contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Waste was only disposed as per spoil management plan.<br><br>No waste was disposed on the private/unauthorized land.   |                  |

**Table 8A Pre- Construction Stage compliance of Environment Management Plan for Smart roads**

| Activity  | Environmental Management Measures                           | Responsible for Implementation | Responsible for Supervision        | Status  | Follow up if any |
|---|---|--------------------------------|------------------------------------|---|------------------|
| Environmental monitoring of baseline conditions of air, noise, water and soil | Environmental monitoring through NABL accredited laboratory | Construction contractor        | PMU and PMC's safeguard specialist | Base line monitoring has been conducted by the Contractor in August 2022. |                  |

| Activity         | Environmental Management Measures  | Responsible for Implementation                | Responsible for Supervision  | Status   | Follow up if any  |
|------------------|--|---|--|--|---|
| Legal compliance | <p>(i)Obtain all consents, clearances (CTE/CTO from TSPCB), permits NOCs etc. before start of construction works Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction (ii)Following consents are required-<br/>Tree cutting,-local authority, Storage, handling and transport of hazardous materials- TSPCB, Sand mining, quarries, borrow areas-Department of mines and Geology<br/>Traffic diversion/road cutting- local authority, traffic police (iii)Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs etc.) (iv)Include in detailed design drawings and documents all conditions and provisions; if necessary</p> | PIU/Consultants in coordination of ULB        | PMU and PMC's safeguard specialist   | <p>Under compliance CTE and CTO For batching plant, Hot Mix plant and WMM Plant received. CTO copy attached in <b>Appendix 4.</b></p> <p>CTE &amp; CTO for C&amp;D waste disposal received (<b>Appendix 4</b>)</p> |   |
| Utilities        | <p>(i) Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase,<br/>(ii) Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services, and<br/>(iii)Require contractors to prepare spoils management plan and traffic management plan</p>  | Construction Contractor, PIU and Agartala ULB | <p>No cost required.<br/>Mitigation measures are part of TOR of PIU and Consultant</p> | <p>Under Compliance</p> <p>Spoil Management Plan submitted and Traffic Management Plan finalization under progress and shall be submit before start of road work.</p>  | Follow up for finalization of spoil and traffic management plan |

| Activity   | Environmental Management Measures   | Responsible for Implementation                                       | Responsible for Supervision  | Status   | Follow up if any |
|--|---|--|--|--|------------------|
| Social and Cultural Resources  | Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized, and measures are taken to ensure they are protected and conserved.  | Construction Contractor, PIU and Agartala ULB                        | No cost required.<br>Mitigation measures are part of TOR of PIU and Consultant | Excavation work has been started and proper protocol is being followed during the excavation work to ensure that any chance finds are recognized.  |                  |
| Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas. | (i) Prioritize areas within or nearest possible vacant space in the project location;<br>(ii) If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems;<br>(iii) Do not consider residential areas;<br>(iv) Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.<br>(v) For excess spoil disposal, ensure<br>(a) site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained;<br>(b) debris disposal site shall be at least 200 m away from surface water bodies;<br>(c) no residential areas shall be located within 50 m downwind side of the site; and<br>(d) site is minimum 250 m away from sensitive locations like settlements, ponds/lakes or other water | Contractor to finalize locations in consultation and approval of PIU | PMU and PMC's safeguard specialist   | Prioritized areas as within or nearest possible vacant space. Batching plant has been installed at Salbagan campus with store, office, and worker camp.<br><br>Disposal site NOC received<br>No residential areas located within 50 m downwind side of the site; and site is far away from sensitive locations like settlements, ponds/lakes, or other water bodies. |                  |

| Activity             | Environmental Management Measures  | Responsible for Implementation | Responsible for Supervision        | Status   | Follow up if any |
|----------------------|--|--------------------------------|------------------------------------|--|------------------|
|                      | bodies.  |                                |                                    |  |                  |
| Sources of Materials | (i) Prioritize sites already permitted by the Department of Mines and Geology<br>(ii) If other sites are necessary, inform construction contractor that it is their responsibility to verify the suitability of all material sources and to obtain the approval of PMU and<br>If additional quarries will be required after construction is started, inform construction contractor to obtain a written approval from PIU. | Construction contractor        | PMU and PMC's safeguard specialist | Raw material purchased through certified licensed vendors. |                  |

**Table 8B: Common-Construction Stage Compliance of Environment Management Plan applicable for all roads**

| Activity                       | Mitigation Measures   | Approximate Location                                | Responsible for Implementation  | Responsible for Supervision        | Status   | Follow-up if any |
|--------------------------------|---|---|---------------------------------|------------------------------------|--|------------------|
| Occupational Health and Safety | <ul style="list-style-type: none"> <li>Comply with all national, state and local Labor laws;</li> <li>Following best practice health and safety guidelines: ADB's Interim Advisory Note on COVID – 19, IFC's General EHS Guidelines,<sup>1</sup> WHO Interim Guidance (and its updates) on Water, Sanitation, Hygiene and Waste management for the COVID19 virus), and Sector Specific</li> </ul> | All construction sites, Labor camp and storage site | Construction contractor and PIU | PMU and PMC's safeguard specialist | Electrical Trench excavation and construction work under progress at Barjala road, VIP Road and GB Road<br><br>Site Specific H & S Plan has been prepared. |                  |

<sup>1</sup><https://www.ifc.org/wps/wcm/connect/554e8d80488658e4b76af76a6515bb18/Final%2B-%2BGeneral%2BEHS%2BGuidelines.pdf?MOD=AJPERES>

|  |   |  |  |  |  |   |
|--|---|--|--|--|--|---|
|  | <p>Guidelines<sup>2</sup>:</p> <ul style="list-style-type: none"> <li>• Develop and implement site-specific Health and Safety (H&amp;S) Plan which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use Personal Protective Equipment; (c) H&amp;S</li> <li>• Training<sup>3</sup> for all site personnel;</li> <li>• (d) documented procedures to be followed for all site activities; and documentation of work-related accidents;</li> <li>• Strict compliance of H&amp;S plan and requirements of wearing personal protective equipment (PPE) during work hours;</li> <li>• Provide specific guidance for suitable PPE for every on-site work assignment.</li> <li>• Ensure that qualified first-aid is provided at all times. Equipped first-aid stations shall be easily accessible throughout the site;</li> <li>• Provide medical insurance coverage for workers;</li> <li>• Secure all installations from unauthorized intrusion and</li> </ul> |  |  |  | <p>WC policy has been obtained.</p> <p>Potable drinking water available at site</p> <p>Sign boards for hazardous areas such as energized electrical devices are available.</p> <p>EHS officer has conducted regular Toolbox talk (TBT) and training at site.</p> <p>H &amp; S Plan submitted by contractor and ensure compliances as per plan PPEs being</p> | <p>Arrangement of ear plugs at construction sites</p> |
|--|---|--|--|--|--|---|

<sup>2</sup> <https://www.ifc.org/wps/wcm/connect/e22c050048855ae0875cd76a6515bb18/Final%2B-%2BWater%2Band%2BSanitation.pdf?MOD=AJPERES>

<sup>3</sup>Some of the key areas that may be covered during training as they relate to the primary causes of accidents include (i) slips, trips and falls; (ii) personal protective equipment; (iii) ergonomics, repetitive motion, and manual handling; (iv) workplace transport; and (v) legislation and responsibilities. Training can provide the foundations of competence, but it does not necessarily result in a competent worker. Therefore, it is essential to assess staff competence to ensure that the training provided is relevant and effective. Supervision and monitoring arrangements shall be in place to ensure that training has been effective, and the worker is competent at their job. The level of supervision and monitoring required is a management decision that shall be based on the risks associated with the job, the level of competence required, the experience of the individual and whether the worker works as part of a team or is a lone worker.

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|  | <p>accident risks;</p> <ul style="list-style-type: none"> <li>• Provide supplies of potable drinking water;</li> <li>• Provide clean eating areas where workers are not exposed to hazardous or noxious substances;</li> <li>• Provide H&amp;S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;</li> <li>• Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;</li> <li>• Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;</li> <li>• Ensure moving equipment is outfitted with audible back-up alarms;</li> <li>• Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with</li> </ul> |  |  |  | <p>used by the workers and proper orientation about the usage of PPEs provided.</p> <p>Hearing protection available and is being provided during noisy activity at site.</p> <p>Workmen insurance policy has been obtained by the Contractor.</p> <p>Drinking water available at the labour camp. Proper visibility vests used by the worker.</p> <p>Proper reverse horns provided to the vehicles used.</p> <p>Proper signages and safety boards provided for hazardous</p> |  |
|--|--|--|--|--|--|--|

|                              |  |   |                    |                                    |   |  |
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|                              | <p>international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate;</p> <ul style="list-style-type: none"> <li>• Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection.</li> <li>• Use of hearing protection shall be enforced actively.</li> </ul>   |   |                    |                                    | <p>areas.</p> <p>Proper hearing aid to be provided to the workers if they are exposed to higher noise levels.</p>   |  |
| Community Health and Safety. | <ul style="list-style-type: none"> <li>• Provide barricades in all construction sites, especially near excavations to avoid entry of people specially children.</li> <li>• Ensure that the traffic diversion plans are developed considering high footfall of women, children and elderly like schools, temples etc.</li> <li>• Ensure that no working equipment's should be kept unattended.</li> <li>• Plan material and waste routes to avoid times of peak-pedestrian activities specially time of school in residential areas.</li> <li>• Regularly maintain the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure</li> <li>• Provide road signs and flag</li> </ul> | All construction sites, Labor camp and storage site | Contractor and PIU | PMU and PMC's safeguard specialist | <p>Being Complied. Caution tapes are provided at the sites where works is ongoing. Traffic Management Plan has to developed if any diversion, transport of material and waste routes planned and movement of vehicle in night only.</p> <p>Road signs and flag persons has been placed at site to alert vehicle, equipment, and locals' movement.</p> <p>The vehicles are</p> | <p>Permanent hard barricade needs to be arranged at excavated area. Finalization of Traffic Management plan prior start of specific road work.</p> <p>More safety signage needs to be placed</p> |



|   |  |                              |                         |   |  |  |
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|   | persons to warn of dangerous   |                              |                         |   | being maintained regularly to minimize the possibility of accidents.   |  |
| Demolition of existing Brick drains drain covers. Clearing of drain silt, dismantling of electrical and telephone cables, clearing of trees | <ul style="list-style-type: none"> <li>Regular Water spraying on surfaces and demolition stockpile.</li> <li>While entering and leaving the site will always be covered.</li> </ul>  | All along the Road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water sprinkling being done regularly in dry season.<br><br>The site has been barricaded partially   |  |
|   | <ul style="list-style-type: none"> <li>Restrict the demolition work only during day time between 8 am to 6 pm.</li> <li>Identify any buildings at risk from vibration damage and avoiding any use of pneumatic drills or heavy vehicles in the vicinity.</li> </ul>  | All along the road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | In this report period no demolition work done  |  |
|   | <ul style="list-style-type: none"> <li>Around 50,000 cum of demolition debris in the form of broken brick works, plaster, RCC etc., will be generated. The Contractor shall suitably dispose of the unutilized debris at the centralized facility of DC Nagar Lunga site of AMC after necessary permission.</li> <li>There will be generation of around 14000 cum of silt during the drains dismantling, the silt will be disposed of suitably in DC Nagar Lunga site of AMC after approvals.</li> </ul> | All along the road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | NOC received and unutilized debris disposed at the centralized facility of DC Nagar Lunga site of AMC<br>Permission obtained for disposal of Solid and Construction & Demolition (C&D) waste<br><b>(Appendix 4)</b><br><br>EHS officer |  |

|  |   |  |  |  |  |  |
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|  | <ul style="list-style-type: none"> <li>• The contractor shall designate a full- time environment, health and safety (EHS) staff. The EHS staff shall supervise, monitor and report on day-to-day compliance</li> <li>• The ESH staff shall possess a recognized degree or advanced diploma in industrial/ construction safety.</li> <li>• The ESH staff shall have practical experience in industrial/construction projects for a period of not less than 5 years.</li> <li>• Submission of updated EMP/ site- specific environmental management plan (SEMP); including work methodology and spoil management plan</li> <li>• Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs.</li> <li>• Debris generated due to dismantling of the existing road and drains shall be suitably reused in the proposed construction zone.</li> <li>• Entire excavated earth generated shall be reused at site for backfilling.</li> </ul> |  |  |  | <p>available at site.</p> <p>Site specific EMP submitted and approved.</p> <p>Baseline monitoring has been done in August 2022.</p> <p>Physical work at the site is under progress</p> <p>Excavated earth has been reused wherever possible and excess material has been deposited at the DC Nagar Lunga Site.</p> |  |
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|  |   |                                     |                                |  |   |  |
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|  | <p>The debris and waste shall not be disposed on the site which hinder the movement of customers and occupants of commercial establishments and in walkways or access to the properties.</p>  | <p>All along the road stretches</p> | <p>Construction Contractor</p> | <p>Environment safeguard officer of PIU PMU and PMC's safeguard specialist</p> | <p>Temporary access being provided to the surrounding property owners.</p>  |  |
|  | <ul style="list-style-type: none"> <li>• 520 trees are identified primarily to be cut after receiving clearance from the Forest Dept. as per the notification No. F1.7(44)/FPR/FP/2001/Part-II/19.630-720 dated 20/10/2010 and after the receipt of ASCL's written permission in this regard.</li> <li>• Cutting shall not start until the Implementation of the project on the location of cutting is confirmed.</li> <li>• No additional trees other than identified shall be cut.</li> </ul> | <p>All along the road stretches</p> | <p>Construction Contractor</p> | <p>Environment safeguard officer of PIU PMU and PMC's safeguard specialist</p> | <p>Being complied As per site adjustments and resubmission of proper confirmatory survey by the Contractor with tree locations and girth size, maximum number of trees shall be saved, and remaining Trees shall be cut after receiving of final NOC from DFO office. During this report period it has been assessed total 157 nos. of trees felling is required at Barjala road and payment request letter from Forest department for the same received on 09/06/2023.</p> | <p>Follow up with forest dept. in case of tree felling NOC</p> |

|  |  |                              |                         |   |   |  |
|--|--|------------------------------|-------------------------|---|---|--|
|  |  |                              |                         |   | Process initiated for transfer of money and getting final NOC   |  |
|  | Community utilities and properties i.e., hand pumps, water supply lines, sewer lines, telephone cables, buildings and health centers shall not be relocated before construction of subproject road starts.   | All along the road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied.   |  |
|  | <ul style="list-style-type: none"> <li>Contractor shall ensure that no demolition debris and materials like earth, stone, or appendage disposed of in a manner that block the flow of water of any water course and cross drainage channels.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>Contractor shall follow the instructions of ASCL/ PMU and PIU on easy flow of water.</li> </ul> | All along the road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied.   |  |
| Removal / Relocation of Transformers in 15 roads | <ul style="list-style-type: none"> <li>There will be requirement of removal of around 225 transformers in all the 15 road stretches.</li> <li>The relocation of transformer should be done in the presence of TSECL officials.</li> <li>The removed transformed should be immediately transported to the storage site of TSECL until further installation/ reuse.</li> </ul>   | All along the road stretches | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied. Shifting not started NOC obtained from TSECL for removal and transportation of Transformer and attached in previous SEMR. |  |

|                  |   |  |      |                         |   |                                      |  |
|------------------|---|--|------|-------------------------|---|--------------------------------------|--|
|                  | <ul style="list-style-type: none"> <li>All precautionary measures shall be taken to avoid leakage of oil.</li> </ul>  |  |      |                         |   |                                      |  |
| Labor Camp Setup | Contractor shall set up toilets with septic tank and soak pit at Labor camp.  | Labor area   | Camp | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Complied as per requirement          |  |
|                  | <ul style="list-style-type: none"> <li>Contractor shall provide bins for storage of solid waste and handover the collected solid waste to AMC collection vehicles for processing.</li> <li>The burning of waste or any other materials shall be strictly prohibited and informed to workers on this.</li> </ul> | Labor area   | Camp | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Complied                             |  |
|                  | Fuel provision shall be made available in camp like LPG so that no tree cuttings involved for fuel wood.  | Labor area   | Camp | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Complied as per requirement          |  |
|                  | <ul style="list-style-type: none"> <li>Contractor shall arrange potable drinking water for workers in camp.</li> <li>Shall provide adequate number of separate toilets for male and female workers.</li> </ul>  | Labor area   | Camp | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Complied-arranged as per requirement |  |
| Construction     | <ul style="list-style-type: none"> <li>Contractor should obtain material from existing mines approved/ licensed by Mines and Geology Department/ Revenue Department.</li> </ul>   | Mines listed by Tripura Government as specified on the website |      | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's                      | Being complied.                      |  |

|   |  |  |                         |   |  |  |
|---|--|--|-------------------------|---|--|--|
|   | <ul style="list-style-type: none"> <li>Verify suitability of all material sources and obtain approval of implementing agency.</li> <li>Submit a monthly statement of construction material procured indicating material type, source and quantity.</li> <li>For new quarry if Environmental Clearance is applicable to be obtained.</li> <li>Adequate safety precautions shall be ensured during transportation of quarry material from quarries to the construction site. Vehicles transporting the material shall be covered to prevent spillage.</li> </ul> | <a href="http://trpervis.nic.in/test/naturalresources.html">:http://trpervis.nic.in/test/naturalresources.html</a> |                         | safeguard specialist  |  |  |
|   | <ul style="list-style-type: none"> <li>The vehicles speed shall be adhered to specified limits of 15 Kmph in site to avoid dust generation.</li> <li>The vehicles transporting materials and entering site shall have PUC certificates and shall be in good condition.</li> </ul>  | All along the road stretches   | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | PUCs of all construction vehicles available  |  |
|   | <ul style="list-style-type: none"> <li>The vehicles shall be maintained properly to reduce the noise.</li> <li>Silencers shall be provided for highnoise generating vehicles.</li> </ul>   | All along the road stretches   | Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied. The Contractor has purchased new vehicles and ensure that vehicles shall be maintained properly to reduce the noise pollution if any |  |
| Vehicle Movement and diversion of traffic | <ul style="list-style-type: none"> <li>Road specific Traffic management plan should be</li> </ul>  | All along the road stretches   | Construction Contractor | Environment safeguard officer of PIU                                    | When Traffic diversion is required, road   |  |

|  |  |  |  |                                    |   |  |
|--|--|--|--|------------------------------------|---|--|
|  | <p>prepared in consultation with the traffic police/ department during construction.</p> <ul style="list-style-type: none"> <li>The plan should be such that there will be minimum affect to the commercial operations of shops and establishments without hindering their business and incoming customers.</li> <li>Owners / occupants of commercial establishments should be consulted before development of traffic plan.</li> <li>Sample traffic management plan attached with the IEE shall be used as guideline/ reference.</li> </ul> |  |  | PMU and PMC's safeguard specialist | specific Traffic management plan shall be prepared in consultation with the traffic police/department |  |
|--|--|--|--|------------------------------------|---|--|

**Table 8C: Construction Stage Compliance of Environment Management Plan for Commercial Roads**

| Activity           | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|--------------------|---|------------------------------|--------------------------------|---|--|------------------|
| Excavation of soil | Water sprinkling on surface of stockpiles.  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water sprinkling is being done regularly for dust suppression. |                  |
|                    | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m away from the                             <ol style="list-style-type: none"> <li>Buri's pukur,</li> <li>Melarmath pukur,</li> <li>Amiyasagar,</li> <li>Shanti sagar pond</li> <li>Kumar pukur situated along the HGB Road.</li> </ol> </li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | To be complied as per requirement                              |                  |
|                    | <ul style="list-style-type: none"> <li>Restrict the excavation work</li> </ul>  | All along the                | Construction                   | Environment   | Excavation   |                  |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any                        |
|----------|--|------------------------------|--------------------------------|---|---|---|
|          | <p>only during day time between 8 am to 6 pm.</p> <ul style="list-style-type: none"> <li>• DG sets and other noise generating equipment shall be provided with acoustic enclosures.</li> <li>• Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings</li> </ul>                    | road stretches               | Contractor                     | safeguard officer of PIU PMU and PMC's safeguard specialist             | works done only daytime. During this report period, no construction was done during the night time and in case of night work, noise should be within the permissible limit. Green DG set available at Labour Camp No pneumatic drills are used. |   |
|          | <ul style="list-style-type: none"> <li>• Excavated earth shall be stored in designated areas.</li> <li>• Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>• Prioritize re-use of excess soils and debris in the construction works.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Excavated earth has been stored near the designated areas and was mostly used for refilling   |   |
|          | <ul style="list-style-type: none"> <li>• Consult with AMC in identifying deep excavation areas on construction maps.</li> <li>• Provide shoring, hard barricades and sign boards to</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Barricade with sign boards arranged along with Danger   | Permanent hard barricade and sufficient |



| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any            |
|----------|--|------------------------------|--------------------------------|---|---|-----------------------------|
|          | warn of dangerous conditions.  |                              |                                | safeguard specialist  | signage – at excavated area/ work site.   | safety signage is necessary |
|          | <ul style="list-style-type: none"> <li>• The contractor shall provide prior intimation (min 7 days before start of work) to commercial establishments along the road stretches.</li> <li>• The work schedule for the commercial roads shall be planned in consultation with the AMC and commercial establishments' owners.</li> <li>• For construction activities that require temporary closure of establishments, the contractor shall give prior information to the particular establishments and shall have consultation to ensure minimum loss of business.</li> <li>• The Contractor shall provide safe and convenient passage temporarily for vehicles, customers and occupants to and from roadsides commercial establishments.</li> <li>• The Contractor shall also ensure that the existing accesses shall not be dismantled without providing adequate provisions.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br><br>The Contractor has provided proper access to the surrounding occupants. |                             |
|          | <ul style="list-style-type: none"> <li>• The dumping of excavated earth and construction material</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard   | Excavated earth has   |                             |

| Activity | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any  |
|----------|---|------------------------------|--------------------------------|---|---|---|
|          | <p>shall not be haphazard way which can obstruct the parking space createtraffic problem.</p> <ul style="list-style-type: none"> <li>Construction of drains shall be carried out at one end of road at once so that the parking can be done without much problem to commercial establishments.</li> </ul>   |                              |                                | officer of PIU PMU and PMC's safeguard specialist                       | been used for refilling of trench to the possible extent and the excess spoils has been disposed off at DC Nagar Lunga. |   |
|          | <ul style="list-style-type: none"> <li>Utilities like water supply and power supply shall be restored immediately to facilitate day to day business of shops and commercialestablishments.</li> <li>Existing underground utilities shall be relocated and realigned if disturbed.</li> <li>Replace and reconnect utilities without disrupting the commercial activities in the shops and establishments.</li> </ul>     | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied  |   |
|          | <ul style="list-style-type: none"> <li>The contractor shall ensure that wastewater/ sewage generated by the commercial establishments like restaurants, eateries, lodges etc., during the construction period should be adequately managed by diverting the flow or collecting and transporting it for necessary treatment and disposal.</li> <li>Contractor shall ensure that no excavated earth is stored/</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied  | No Excavated earth stored in a manner that block the flow of water course and |

| Activity                                     | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|--|--|------------------------------|--------------------------------|---|--|------------------|
|  | <p>stockpiled in a manner that block the flow of water of any water course and crossdrainage channels.</p> <ul style="list-style-type: none"> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow. Contractor shall follow the instructions of ASCL and PIU on easy flow of water.</li> </ul>   |                              |                                |   | cross drainage channels  |                  |
| Usage of Construction vehicles and equipment | <ul style="list-style-type: none"> <li>Special care shall be taken near               <ol style="list-style-type: none"> <li>Government Ayurvedic Hospital in HGB Road</li> <li>IGM hospitals on Akhaura Road and</li> <li>Agartala Nursing Home along Matabari Road.</li> </ol>               The contractor shall not set up concrete mixers and hot mixers in the 100 m periphery of the hospitals which causes respiratory discomfort to the hospital patients.             </li> <li>Provide information to identified sensitive receptors about the work schedule.</li> <li>Water sprinkling on Kaccha/ mudroads.</li> <li>Limit of vehicle speed to 15 kmph.</li> <li>Periodical air quality monitoring shall be done during construction and operation phase.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Being complied</p> <p>Water sprinkling done regularly in dry period. Limit of vehicle speed to 15 kmph.</p> <p>Baseline monitoring has been done in August 2022. Construction phase monitoring has been done in March 2023.</p> |                  |

| Activity | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|---|------------------------------|--------------------------------|---|--|------------------|
|          | <ul style="list-style-type: none"> <li>The vehicles shall be maintained regularly<br/>Vehicles and machineries working in premises shall have PUC certificate.</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Vehicles PUCs available  |                  |
|          | <ul style="list-style-type: none"> <li>No high noise generating (&gt;85 dB) activities shall be carried out and night time activities shall be strictly prohibited near Hospitals like Government Ayurvedic Hospital, Devlok Hospital, IGM hospital etc.</li> <li>Maintain maximum sound level of 80 dB when measured at 10 m from the equipment.</li> <li>The vehicles and equipment shall be maintained properly to reduce the noise.</li> <li>DG sets and other noise generating equipment shall be provided with acoustic enclosures.</li> <li>Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration.</li> <li>Noise barriers shall be installed at sensitive re</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br><br>Green DG Set available at labour camp and office/storage site. |                  |
|          | <ul style="list-style-type: none"> <li>Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms.</li> <li>DG sets, oil/ fuel consuming</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Fuel, oil, lubricants and other chemicals stored on                                  |                  |

| Activity           | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any |
|--------------------|---|------------------------------|--------------------------------|---|---|------------------|
|                    | equipment shall be placed in concrete platforms.  |                              |                                | safeguard specialist  | concrete platforms at Labour camp site.   |                  |
| Construction works | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stock piles, roads etc.,</li> <li>Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity.</li> <li>DG sets if used for construction activity shall meet the required emission standards.</li> <li>All construction plants like crushers and hot mixers shall be sited sufficiently away from human habitations and occupancies. Such plants shall be located at least 100 m away in the downwind direction.</li> <li>Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Water Sprinkling has been done in during the dry seasons.</p> <p>Green DG Set available at site<br/>All construction plants site is sufficiently away from human habitations and occupancies<br/>Baseline Air quality monitoring has been done in August 2022.<br/>Construction phase monitoring has been done in March2023.</p> |                  |
|                    | <ul style="list-style-type: none"> <li>Commercial roads also have around 5 waterbodies within</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard   | To be complied as   |                  |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|--|------------------|
|          | <p>100 m from the center of the roads (Buri's pukur, Melarmath pukur, Amiyasagar, Shanti sagar pond, Kumar pukkur along HGB road), measures like storing of stockpiles at least 5 m away from waterbodies, covering the stockpiles so that the sediment laden water shall not enter the watercourse and storage of fuel, oil, lubricants and other chemicals on concrete platforms to avoid contamination of these waterbodies</p> <ul style="list-style-type: none"> <li>• Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment ladenwater does not drain into water bodies/ ponds along the roads.</li> </ul> |                              |                                | officer of PIU PMU and PMC's safeguard specialist                       | per requirement  |                  |
|          | <ul style="list-style-type: none"> <li>• Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the water bodies/ ponds.</li> <li>• Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>• In addition to the design requirements, the Contractor</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Proper precautions are being taken while managing the waste in such that it does not block the water to and from water bodies. |                  |

| Activity | Mitigation Measures   | Approximate Location                | Responsible for Implementation | Responsible for Supervision  | Status  | Follow up if any |
|----------|---|-------------------------------------|--------------------------------|--|---|------------------|
|          | <p>shall take all required measures as directed by the Environment officer of PIU to prevent temporary or permanent flooding of the site or any adjacent area.</p>  |                                     |                                |  | <p>Proper precautions are being taken to prevent any blockage to water flow.</p>  |                  |
|          | <ul style="list-style-type: none"> <li>• All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards.</li> <li>• At the construction sites within 150 m of the nearest habitation, noisy construction work such as crushing,</li> <li>• operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 6.00 pm to 6.00 am.</li> <li>• Provide prior information to the identified sensitive receptors about the work schedule.</li> <li>• Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers the sound impact to surrounding sensitive receptor; and use hydraulic or vibro impact hammers in place of diesel hammers for piling work.</li> <li>• Maintain maximum sound</li> </ul> | <p>All along the road stretches</p> | <p>Construction Contractor</p> | <p>Environment safeguard officer of PIU PMU and PMC's safeguard specialist</p> | <p>Being Complied.</p> <p>Maintaining maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</p> <p>Periodic Noise monitoring has been done in March 2023 at selected locations to check the impact of developmental activity on water body.</p> |                  |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any   |
|----------|--|------------------------------|--------------------------------|---|---|--|
|          | <p>levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</p> <ul style="list-style-type: none"> <li>• Provision of ear-plugs to workers exposed to high noise levels.</li> <li>• Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body.</li> </ul>   |                              |                                |   |   |  |
|          | <ul style="list-style-type: none"> <li>• Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas, care shall be taken in Thakurpalli Road where Ujjayanta Palace is situated. Avoid disposal of any debris and waste soils in and around the water bodies or near sensitive areas like hospitals, school etc.,</li> <li>• Coordinate with PIU for beneficial uses of excess excavated soils or immediately disposed to DC Nagar Lunga site.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied<br><br>Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste ( <b>Appendix 4</b> ) |  |
|          | <ul style="list-style-type: none"> <li>• Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line.</li> <li>• In unavoidable circumstances</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard            | Being complied  | Sufficient local language signage board needs to be placed |



| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|--|------------------|
|          | <p>of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions.</p> <ul style="list-style-type: none"> <li>At all work sites public information/ caution boards in English and local language (Bengali) shall be provided - information shall inter-alia include: project name, cost and schedule; executing agency and contractor details; nature and schedule of work at that road/ locality; traffic diversion details, if any; entry restriction information; competent official's name and contact for public complaints. Prepare a Traffic Management Plan.</li> </ul> |                              |                                | specialist  | <p>At all work sites caution boards in English has been provided. Traffic Management Plan shall be submitted before traffic diversion and permission will be obtained from traffic department.</p> |                  |
|          | <ul style="list-style-type: none"> <li>Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line.</li> <li>In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions.</li> <li>At all work sites public information/ caution boards in English and local language (Bengali) shall be provided - information shall inter-alia</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied   |                  |

| Activity | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision                                  | Status         | Follow up if any |
|----------|---|------------------------------|--------------------------------|--|----------------|------------------|
|          | <p>include: project name, cost and schedule; executing agency and contractor details; nature and schedule of work at that road/ locality; traffic diversion details, if any; entry restriction information; competent official's name and contact for public complaints.</p> <ul style="list-style-type: none"> <li>• Prepare a Traffic Management Plan.</li> <li>• No material should be stocked in sensitive area; material shall be brought to the site as and when required.</li> <li>• Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles</li> <li>• No work should be conducted near the temples along the road during religious congregations.</li> <li>• Implement all measures suggested elsewhere in this report – dust and noise control, public safety, traffic management, strictly at these sites.</li> </ul> |                              |                                |  |                |                  |
|          | <ul style="list-style-type: none"> <li>• Contractor shall ensure that no construction materials like earth, stone, or appendage disposed of in a manner that block the flow of water of any water course and cross</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard | Being complied |                  |

| Activity  | Mitigation Measures   | Approximate Location         | Responsible for Implementation                     | Responsible for Supervision   | Status  | Follow up if any |
|---|---|------------------------------|--|---|---|------------------|
|   | <p>drainage channels.</p> <ul style="list-style-type: none"> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow. Contractor shall follow the instructions of ASCL/PMU and PIU on easy flow of water.</li> </ul>   |                              |  | specialist  |   |                  |
| Handling of Bitumen for roadworks   | <ul style="list-style-type: none"> <li>Care shall be taken that the bitumenshall not be spilled and no leakage shall take place at site. The bitumen will decrease soil fertility and pollute the receiving water body due to phenolic compounds.</li> <li>Workers at site shall be trained on environmental damages of bitumen on soil and water.</li> </ul> | All along the road stretches | Contractor EHS officer and Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Road construction not yet started   |                  |
|   | <ul style="list-style-type: none"> <li>Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the workers employed in asphalt works.</li> <li>Workers shall be trained before handling of hot bitumen.</li> </ul>   | All along the road stretches | Contractor EHS officer and Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Bitumen work not yet started  |                  |
| Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes, drain silt | <ul style="list-style-type: none"> <li>Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission.</li> <li>Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer</li> </ul>  | All along the road stretches | Construction Contractor                            | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br>Stockpiles has been sprinkled with water to reduce dust emission. | PUCs of all      |

| Activity | Mitigation Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any |
|----------|---|----------------------|--------------------------------|---|---|------------------|
|          | <ul style="list-style-type: none"> <li>particles and dust.</li> <li>The vehicles carrying wastes shall be checked for their PUC certificate and its fitness.</li> </ul>   |                      |                                |   | vehicles available at site  |                  |
|          | <ul style="list-style-type: none"> <li>The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass land or water bodies which contaminate the soil and water bodies of Agartala.</li> </ul>                                 | Disposal Site        | Construction Contractor        | Environment safeguard officer of PIU and PMU and PMC's safeguard specialist | Surplus excavated earth and other construction wastes were not dumped on any agricultural land, grass land or water bodies. |                  |
|          | <ul style="list-style-type: none"> <li>The wastes shall not be disposed on roadsides of city or anywhere which degrades the aesthetics of the place.</li> <li>Contractor shall be penalized for disposal of wastes in private/ unauthorized lands or water bodies.</li> </ul> | Disposal Site        | Construction Contractor        | Environment safeguard officer of PIU and PMU and PMC's safeguard specialist | Proper Instruction given to contractor regarding the waste disposal.  |                  |

**Table 8D: Construction Stage Compliance of Environment Management Plan for Residential Roads and Mixed Roads**

| Activity           | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision                            | Status   | Follow up if any |
|--------------------|--|------------------------------|--------------------------------|--|--|------------------|
| Excavation of soil | <ul style="list-style-type: none"> <li>Provide information to identified sensitive receptors</li> <li>1. Umakanta Academy English Medium School, Birchandra State Central Library along Akhaura</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU and PMU and PMC's | Being complied Only work under progress on Barjala road and Dust |                  |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|--|------------------|
|          | <p>Road</p> <ol style="list-style-type: none"> <li>2. Kshudiram English Medium School on Jail Road,</li> <li>3. Hindi HS School, Nirmala Shishu Vihar and Sri Krishna Mission School along VIP Road,</li> <li>4. GB Hospital on BG Road</li> <li>5. Barjala Higher Secondary School, Apnagar Old-age Home along Barjala Road</li> <li>6. Womens ITI College along ITI Road about the work schedule.</li> </ol> <ul style="list-style-type: none"> <li>• Water sprinkling on surface of stockpiles to avoid dust emission.</li> </ul>   |                              |                                | safeguard specialist  | suppression process are being followed at the sites                          |                  |
|          | <ul style="list-style-type: none"> <li>• Stockpiles shall be at least 5 m away from the waterbodies viz.,               <ol style="list-style-type: none"> <li>1. Jagannathbari pond, Rjabari pond and Banmalipur dighi along Thakurpalli Road</li> <li>2. Rani Pukur along VIP Road</li> <li>3 Jora pond, Abhoynagar pond, Ranir Tila along GB Road</li> <li>4. Bhodjung pond along Jail AshrmaRoad.</li> </ol> </li> <li>• Measures like covering the stockpiles so that the sediment laden water shall not enter the watercourse and contaminate these waterbodies due to excavation activities.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied   |                  |
|          | <ul style="list-style-type: none"> <li>• The excavation activity shall be restricted to day time from 8AM to 6PM to avoid causing disturbance to residents. Night time work with permissible noise level.</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Being Complied<br>Excavation work under progress at Barjala and VIP road and |                  |

| Activity | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any                                    |
|----------|---|------------------------------|--------------------------------|---|--|---|
|          | <ul style="list-style-type: none"> <li>Maintain maximum sound level of 80 dB when measured at 10 m from the equipment.</li> <li>DG sets and other noise generating equipment shall be provided with acoustic enclosures.</li> <li>Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration.</li> </ul> |                              |                                | safeguard specialist  | <p>proper noise mitigation measures has been taken up. In this report period, no construction was done during the night time.</p> <p>Green DG set available at Labour Camp cum store &amp; office site</p> |   |
|          | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in designated areas.</li> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>Prioritize re-use of excess soils and debris in the construction works.</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied   |   |
|          | <ul style="list-style-type: none"> <li>The drains and deep excavation sites shall be barricaded to avoid entry of children and general public.</li> <li>Sign boards to warn of dangerous conditions.</li> <li>Consult with AMC in identifying deep excavation areas on construction maps</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Permanent barricading has been arranged at few locations. At some stretches temporary barricades are noted. Sign Board has been placed.</p>   | Permanent Barricading to be arranged at all stretch |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|--|------------------|
|          |  |                              |                                |   | But improvement is required  |                  |
|          | <ul style="list-style-type: none"> <li>Construction of drains shall be carried out at one end of road at once so that the parking can be done without much problem to households (except VIP road).</li> <li>The dumping of excavated earth and construction material shall not be haphazard way which can obstruct the parking space create traffic problem.</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Excavated earth is being used for refilling purpose.   |                  |
|          | <ul style="list-style-type: none"> <li>The contractor shall provide prior intimation to the occupants of the commercial establishments and residences on excavation for the project.</li> <li>The Contractor shall provide safe and convenient passage temporarily for vehicles, customers and occupants to and from roadsides commercial establishments.</li> <li>The Contractor shall also ensure that the existing accesses shall not be dismantled without providing adequate provisions.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Prior intimation has been given to the occupants of the commercial establishments and residences on excavation</p> <p>Contractor has provided safe and convenient passage temporarily for vehicles, customers and occupants to and from roadsides commercial establishments, houses</p> |                  |

| Activity                                     | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any  |
|--|---|------------------------------|--------------------------------|---|--|---|
|  | <ul style="list-style-type: none"> <li>Water supply, Gas supply and power lines shall be restored if disturbed so that the residents should not face the difficulties for day-to-day activities.</li> <li>Replace and reconnect utilities without disrupting the commercial activities in the shops and establishments.</li> <li>Existing underground utilities shall be relocated and realigned if disturbed.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied   |   |
|  | <ul style="list-style-type: none"> <li>Contractor shall ensure that no excavated earth is stored/ stockpiled in a manner that block the flow of water of any water course and crossdrainage channels.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow. Contractor shall follow the instructions of ASCL and PIU on easy flow of water.</li> </ul>                         | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied   |   |
| Usage of Construction vehicles and equipment | <ul style="list-style-type: none"> <li>Water sprinkling on Kaccha/ mud roads.</li> <li>Limit of vehicle speed to 20 kmph within site.</li> <li>Periodical air quality monitoring shall be done during construction and operation phase.</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Water sprinkling has been done. Permissible vehicle speed limit 20 km /h<br>Air quality monitoring has been done for pre-construction phase in August 2022 and for construction phase in March | Instruction has been given to contractor for immediate carry out base line monitoring for new road where construction work not started. |



| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|--|------------------|
|          |  |                              |                                |   | 2023.  |                  |
|          | <ul style="list-style-type: none"> <li>The contractor shall not set up concrete mixers and hot mixers in the 100 m periphery of the habitations.</li> <li>The vehicles shall be maintained regularly.</li> <li>Vehicles and machineries working in premises shall have PUC certificate.</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Being complied</p> <p>Concrete mixer and hot mixer are out of the city area and no habitations available near hot mix plant.</p> <p>Vehicles are being maintained properly.</p> |                  |
|          | <ul style="list-style-type: none"> <li>The vehicles and equipment shall be maintained properly to reduce the noise.</li> <li>DG sets and other noise generating equipment shall be provided with acoustic enclosures.</li> <li>Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | The vehicles and equipment are maintained properly to reduce the noise.  |                  |
|          | <ul style="list-style-type: none"> <li>The vehicles and equipment shall be maintained properly to reduce the noise.</li> <li>DG sets and other noise generating equipment shall be provided with acoustic enclosures.</li> <li>Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce</li> </ul>            | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Fuel, oil, lubricants and other chemicals stored at concrete platform. DG sets, oil/fuel consuming equipment placed in   |                  |

| Activity          | Mitigation Measures   | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any  |
|-------------------|---|------------------------------|--------------------------------|---|---|---|
|                   | vibration.  |                              |                                |   | concrete platforms at Camp site.  |   |
| Construction work | <ul style="list-style-type: none"> <li>Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles, roads etc., Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity.</li> <li>DG sets if used for construction activity shall meet the required emission standards.</li> <li>All construction plants like crushers and hot mixers shall be sited sufficiently away from human habitations and occupancies. Such plants shall be located at least 100 m away in the downwind direction.</li> <li>Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Water sprinkling is being done to control dust</p> <p>Green net provided for dust trap at hot mix plant.</p> <p>Green DG sets used for construction activity which meets the required emission standards</p> <p>All construction plants site is sufficiently away from human habitations and occupancies. Located at isolated place.</p> <p>Periodic Air quality monitoring (base line) has been done in August 2022 &amp;</p> | Hot mix plant CTO received and given in <b>Appendix 4</b> |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|---|------------------|
|          |  |                              |                                |   | during construction monitoring (Construction phase) has been conducted in March 2023 by the Contractor.                                   |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into water bodies/ ponds viz., Rajbari lake, Jagannath bari lake and Banmalipur dighi along Thakurpalli road, Ranipukur along VIP road.</li> </ul>   | Along the road stretches     | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied  |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the water bodies/ ponds.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>In addition to the design requirements, the Contractor shall take all required measures as directed by the Environment officer of PIU to prevent temporary or permanent flooding of the site or any adjacent</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br>The Contractor is taking proper precautions for waste disposal to avoid blockage of water to and from the water bodies. |                  |

| Activity | Mitigation Measures  | Approximate Location                | Responsible for Implementation | Responsible for Supervision  | Status  | Follow up if any |
|----------|--|-------------------------------------|--------------------------------|--|---|------------------|
|          | <p>area.</p> <ul style="list-style-type: none"> <li>• All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards.</li> <li>• At the construction sites within 150 m of the nearest habitation, noisy construction work such as crushing, operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 6.00 pm to 6.00 am.</li> <li>• Provide prior information to the identified sensitive receptors about the work schedule.</li> <li>• Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers the sound impact to surrounding sensitive receptor; and use hydraulic or vibro impact hammers in place of diesel hammers for piling work.</li> <li>• Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles &amp; equipment.</li> <li>• Provision of ear-plugs to workers exposed to high noise levels.</li> <li>• Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body.</li> </ul> | <p>All along the road stretches</p> | <p>Construction Contractor</p> | <p>Environment safeguard officer of PIU PMU and PMC's safeguard specialist</p> | <p>Being complied All Construction plants and equipment used in construction follow MoEFCC/ CPCB noise standards. No noisy activity has been near sensitive receptors. Noise monitoring has been done near sensitive receptors.</p> <p>Periodic Noise monitoring has been done for pre-construction phase in August 2022 and construction phase during report period in March 2023.</p> |                  |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any                                 |
|----------|--|------------------------------|--------------------------------|---|--|--|
|          | <ul style="list-style-type: none"> <li>• Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas.</li> <li>• Avoid disposal of any debris and waste soils in and around the water bodies or near sensitive areas like hospitals, school etc.,</li> <li>• Coordinate with PIU for beneficial uses of excess excavated soils or immediately disposed to DC Nagar Lunga site.</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Being Complied</p> <p>Raw materials stockpiling is being done only in the designated areas.</p> <p>Permission obtained for disposal of Solid and Construction &amp; Demolition (C &amp; D) waste <b>(Appendix 4)</b></p>          |  |
|          | <ul style="list-style-type: none"> <li>• Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line.</li> <li>• In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions.</li> <li>• At all work sites public information/ caution boards in English and local language (Bengali) shall be provided - information shall inter-alia include: project name, cost and schedule; executing agency and contractor details; nature and schedule of work at that</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | <p>Being Complied</p> <p>Work sites public information/caution boards provided at the Barjala and GB road. Increase of number of boards is required.</p> <p>During this period no traffic diversion required. Traffic Management</p> | Immediate arrangement of work site display board |

| Activity | Mitigation Measures  | Approximate Location         | Responsible for Implementation | Responsible for Supervision   | Status  | Follow up if any |
|----------|--|------------------------------|--------------------------------|---|---|------------------|
|          | <p>road/ locality; traffic diversion details, if any; entry restriction information; competent official's name and contact for public complaints.</p> <ul style="list-style-type: none"> <li>Prepare a Traffic Management Plan.</li> </ul>   |                              |                                |   | plan considering traffic diversion is to be prepared before start of road construction work.  |                  |
|          | <ul style="list-style-type: none"> <li>No material should be stocked in sensitive area; material shall be brought to the site as and when required.</li> <li>Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles especially near Government Ayurvedic hospital and Agartala nursing home areas.</li> <li>No work should be conducted near the temples along the road during religious congregations.</li> <li>Implement all measures suggested elsewhere in this report - dust and noise control, public safety, traffic</li> <li>Management, strictly at these sites.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br>No work has been done near the temples along the road during religious congregations. Implement all measures suggested elsewhere in this report - dust and noise control, public safety, traffic management |                  |
|          | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, or appendage disposed of in a manner that block the flow of water of any water course and cross drainage channels.</li> <li>Contractor shall take all necessary measures to prevent any blockage</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being Complied  |                  |

| Activity  | Mitigation Measures   | Approximate Location         | Responsible for Implementation             | Responsible for Supervision   | Status         | Follow up if any   |
|---|---|------------------------------|--|---|----------------|--|
|   | to the water flow. Contractor shall follow the instructions of ASCL/ PMU and PIU on easy flow of water.   |                              |  |   |                |  |
| Handling of Bitumen for road work.  | <ul style="list-style-type: none"> <li>Care shall be taken that the bitumen shall not be spilled and no leakage shall take place at site. The bitumen will decrease soil fertility and pollute the receiving water body due to phenolic compounds.</li> <li>Workers at site shall be trained on environmental damages of bitumen on soil and water.</li> </ul>  | All along the road stretches | Contractor EHS and Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied |  |
|   | <ul style="list-style-type: none"> <li>Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the workers employed in asphalt works.</li> <li>Workers shall be trained before handling of hot bitumen.</li> </ul>   | All along the road stretches | Contractor EHS and Construction Contractor | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied |  |
| Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes, drain silt | <ul style="list-style-type: none"> <li>Around 95,000 cum of surplus excavated earth, 18,000 cum of demolition debris, 5000 cum of drainsilt shall be disposed of in DC NagarLunga AMC dump site.</li> <li>Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission.</li> <li>Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust.</li> </ul> | All along the road stretches | Construction Contractor                    | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied | excavated earth, debris, has been disposed of in DC Nagar Lunga site. Transportation vehicles carrying waste materials has covered with tarpaulin to |

| Activity | Mitigation Measures   | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|----------|---|----------------------|--------------------------------|---|--|------------------|
|          | <ul style="list-style-type: none"> <li>The vehicles carrying wastes shall be checked for their PUC certificate and its fitness.</li> </ul>  |                      |                                |   | <p>avoid emission of finer particles and dust.</p> <p>The vehicles carrying wastes having PUC certificate and its fitness.</p>   |                  |
|          | <ul style="list-style-type: none"> <li>The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass land or water bodies which contaminate the soil and water bodies of Agartala.</li> </ul> | Disposal Site        | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | The surplus excavated earth and other construction wastes not to dumped on any agricultural land, grass land or water bodies. Dispose as per waste management plan Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste ( <b>Appendix 4</b> ) |                  |
|          | <ul style="list-style-type: none"> <li>The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of</li> </ul>   | Disposal Site        | Construction Contractor        | Environment safeguard officer of PIU                                    | The wastes were not disposed off on  |                  |



| Activity | Mitigation Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision        | Status   | Follow up if any |
|----------|--|----------------------|--------------------------------|------------------------------------|--|------------------|
|          | <p>the place.</p> <ul style="list-style-type: none"> <li>Contractor shall be penalized for disposal of wastes in private/ unauthorized lands or water bodies.</li> </ul> |                      |                                | PMU and PMC's safeguard specialist | roadsides of city.<br><br>Instruction has been given to contractor for necessary compliance. |                  |

**Table 8E: Construction Stage Compliance of Environment Management Plan for Ponds/Waterbodies nearby Roads**

| Activity           | Mitigation Measures  | Approximate Location         | Responsible For Implementation | Responsible for Supervision  | Status  | Follow up if any |
|--------------------|--|------------------------------|--------------------------------|--|---|------------------|
| Excavation of Soil | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m away from the waterbodies                             <ol style="list-style-type: none"> <li>Buri's pukur, Melarmath pukur, Amiyasagar, Shanti sagar pond, Kumar pukur along HGB road,</li> <li>Jagannathbari pond, Rjabari pond and Banmalipur dighi along Thakurpalli Road</li> <li>Rani Pukur along VIP Road</li> <li>Jora pond, Abhoynagar pond, Ranir Tila along GB Road</li> <li>Bhodjung pond along Jail Ashram Road</li> </ol> </li> <li>Measures like covering the stockpiles so that the sediment laden water shall not enter the watercourse and contaminate these waterbodies due to excavation activities.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | To be complied<br><br>Proper precautions shall be taken so that the sediment laden water shall not enter the watercourse and contaminate waterbodies. |                  |
|                    | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in designated areas.</li> </ul>   | All along the road stretches | Construction Contractor        | Environment safeguard officer  | To be complied.<br>Till date no work  |                  |

| Activity                                     | Mitigation Measures  | Approximate Location         | Responsible For Implementation | Responsible for Supervision  | Status   | Follow up if any |
|--|--|------------------------------|--------------------------------|--|--|------------------|
|  | <ul style="list-style-type: none"> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>Prioritize re-use of excess soils and debris in the construction works.</li> </ul>   |                              |                                | of PIU<br>PMU and PMC's safeguard specialist                               | started near these water bodies                                      |                  |
| Construction Works                           | <ul style="list-style-type: none"> <li>Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into water bodies/ ponds viz., Rajbari lake, Jagannath bari lake and Banmalipur dighi along Thakurpalli road, Rani pukur along VIP road near Ginger Hotel and Mukta pukur on Akhaura road.</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | To be complied.<br>Till date no work started near these water bodies |                  |
|  | <ul style="list-style-type: none"> <li>Contractor shall ensure that no construction materials like earth, stone, waste disposed of in a manner that block the flow of water to and from the water bodies/ ponds.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow.</li> <li>In addition to the design requirements, the Contractor shall take all required measures as directed by the Environmental officer of PIU to prevent temporary or permanent flooding of the site or any adjacent area.</li> </ul> | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | To be complied.<br>Till date no work started near these water bodies |                  |
| Usage of construction vehicles and equipment | <ul style="list-style-type: none"> <li>Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms.</li> <li>DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms.</li> </ul>  | All along the road stretches | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard            | To be complied   |                  |

| Activity | Mitigation Measures | Approximate Location | Responsible For Implementation | Responsible for Supervision | Status | Follow up if any |
|----------|---------------------|----------------------|--------------------------------|-----------------------------|--------|------------------|
|          |                     |                      |                                | specialist                  |        |                  |

**Table 8F: Construction Stage Compliance of Environment Management Plan for Labour Camp**

| Activity   | Mitigation Measures  | Approximate Location | Responsible for Implementation | Responsible for Supervision   | Status   | Follow up if any |
|------------|--|----------------------|--------------------------------|---|--|------------------|
| Labor Camp | <ul style="list-style-type: none"> <li>Contractor shall set up toilets with septic tank and soak pit at Labor camp.</li> </ul>   | Labor Camp           | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Being complied<br>Septic tank constructed at the labour camp toilet  |                  |
|            | <ul style="list-style-type: none"> <li>Contractor shall provide bins for storage of solid waste and hand over the collected solid waste to AMC collection vehicles for processing.</li> </ul>  | Labor Camp           | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Bins for storage of solid waste available at site and handover the collected solid waste to AMC collection vehicles for processing |                  |
|            | <ul style="list-style-type: none"> <li>Fuel provision shall be made available in camp like LPG so that no tree cutting is involved for fuel wood.</li> <li>Laborers shall be strictly informed no to cut trees for cooking or other purposes.</li> </ul> | Labor Camp           | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's safeguard specialist | Complied<br>Cooking gas provided   |                  |
|            | <ul style="list-style-type: none"> <li>Contractor shall arrange potable drinking water for workers in camp.</li> <li>Shall provide adequate number of separate toilets for male and female workers.</li> </ul>   | Labor Camp           | Construction Contractor        | Environment safeguard officer of PIU PMU and PMC's                      | Complied<br>Arranged sufficient drinking water and toilet facility   |                  |

| Activity | Mitigation Measures | Approximate Location | Responsible for Implementation | Responsible for Supervision | Status | Follow up if any |
|----------|---------------------|----------------------|--------------------------------|-----------------------------|--------|------------------|
|          |                     |                      |                                | safeguard specialist        |        |                  |

37. Site Specific EMP for Open Spaces for storage of material and construction equipment: There are 5 open spaces encountered during the field visit which can be used for storage of raw material, equipment, and machineries. Contractor shall talk to the owners of these open spaces and decide for storage of raw materials and construction equipment. The open spaces are situated in HGB Road, GB Road, Barjala Road and Jail Ashram Road. The details of the same are given in **Table 8G**.

**Table 8G: Construction stage Compliance of Environment Management plan for Open Spaces for storage of material and construction equipment**

| Activity               | Mitigation Measures  | Approximate Location   | Responsible for Implementation | Responsible for Supervision  | Status   | Follow-up if any |
|------------------------|--|------------------------|--------------------------------|--|--|------------------|
| Storage/Stockpile area | Water sprinkling on surface of stockpiles  | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied<br>Water sprinkling being done.                             |                  |
|                        | <ul style="list-style-type: none"> <li>Stockpiles shall be at least 5 m away from the waterbodies.</li> <li>Entire premises shall be barricaded to prevent outflow of material along with runoff.</li> </ul> | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied   |                  |
|                        | Restrict the storage and transportation work only during day time between 8 am to 6 pm.  | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied.<br>Noise shall be maintained within the permissible limit. |                  |
|                        | <ul style="list-style-type: none"> <li>Excavated earth shall be stored in</li> </ul>   | Storage/Stockpile      | Construction                   | Environment  | Being  |                  |

| Activity                         | Mitigation Measures   | Approximate Location   | Responsible for Implementation | Responsible for Supervision  | Status   | Follow-up if any |
|----------------------------------|---|------------------------|--------------------------------|--|--|------------------|
|                                  | <p>designated areas as shown in image.</p> <ul style="list-style-type: none"> <li>Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse.</li> <li>Prioritize re-use of excess soils and debris in the construction works.</li> </ul>   | area                   | Contractor                     | safeguard officer of PIU<br>PMU and PMC's safeguard specialist             | Complied<br>Excavated earth has been stored in designated areas.                             |                  |
|                                  | The contractor shall provide prior intimation to the occupants of the surrounding area shops and residents.   | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied<br>The Contractor has informed the occupants of shops and residents.          |                  |
|                                  | <ul style="list-style-type: none"> <li>In case of any disturbance to the existing utilities due to storage activity, the contractor shall replace and reconnect utilities without disrupting the commercial activities in the shops and establishments.</li> </ul>  | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied   |                  |
|                                  | <ul style="list-style-type: none"> <li>Contractor shall ensure that no excavated earth is stored/stockpiled in a manner that block the flow of water of any water course and cross drainage channels.</li> <li>Contractor shall take all necessary measures to prevent any blockage to the water flow. Contractor shall follow the instructions of ASCL and PIU on easy flow of water.</li> </ul> | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied<br>No excavated earth is stored in a manner that it blocks the flow of water. |                  |
| Storage of Oil, fuel, lubricants | <ul style="list-style-type: none"> <li>Hazardous materials like paints, solvents, fuel and oils shall be</li> </ul>   | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer  | Being Complied   |                  |

| Activity   | Mitigation Measures   | Approximate Location   | Responsible for Implementation | Responsible for Supervision  | Status  | Follow-up if any |
|--|---|------------------------|--------------------------------|--|---|------------------|
| and other hazardous materials                              | <p>stored only when it is necessary</p> <ul style="list-style-type: none"> <li>The storage shall be in the designated area and on concrete platforms.</li> <li>Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water body.</li> </ul> |                        |                                | of PIU<br>PMU and PMC's safeguard specialist                               | <p>Storage of oil has been done in the designated area.</p> <p>Periodic water quality monitoring has been done for the construction phase, during report period last in March 2023.</p> |                  |
| Parking and Storage of Construction vehicles and equipment | <ul style="list-style-type: none"> <li>Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms.</li> <li>DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms.</li> </ul>   | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied  |                  |
| Material and Human Safety                                  | <ul style="list-style-type: none"> <li>The storage site shall be barricaded to prevent runoff of raw materials and entry of unauthorized personnel including children.</li> </ul>   | Storage/Stockpile area | Construction Contractor        | Environment safeguard officer of PIU<br>PMU and PMC's safeguard specialist | Being Complied  |                  |

## V. ENVIRONMENTAL MONITORING AND EVALUATION

38. For effective monitoring, selected environmental parameters have been identified as indicators which will be qualitatively and quantitatively measured and compared over a period in order to assess/ensure the compliance of EMP. The environmental performance indicators are physical, biological, and social characteristics identified as most important in affecting the environment at critical locations all along the subproject locations. The parameters identified as performance indicators are:

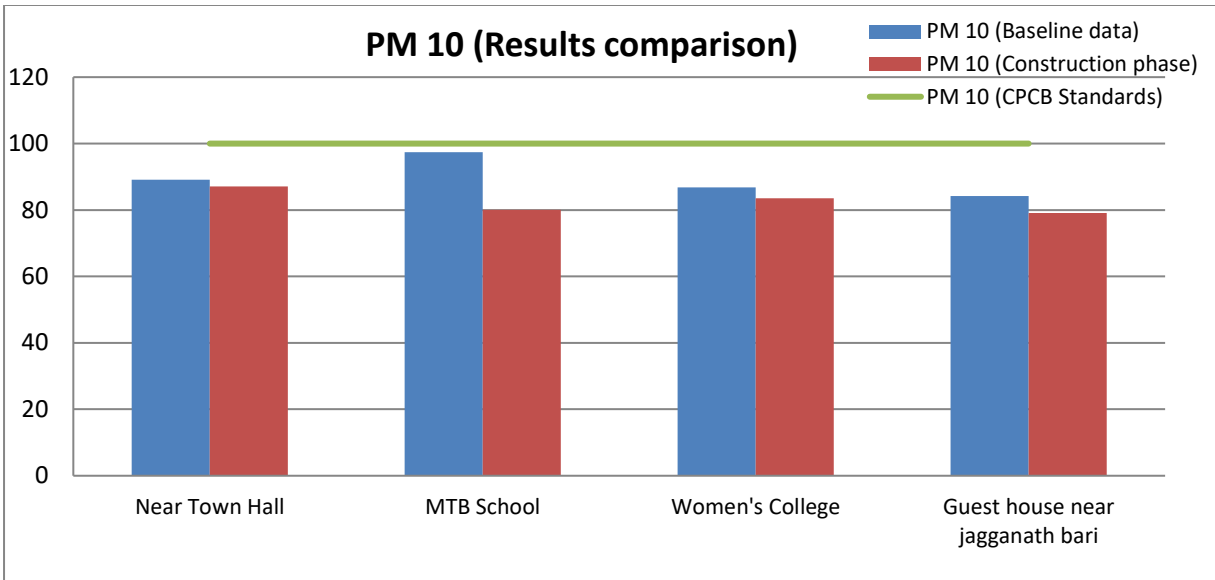
- Air, noise and water and soil quality
- Compliance to EMP
- Compliance to local/state/national environmental regulations

39. Construction phase air quality monitoring was carried out for Ujjayanta Palace project during 23/03/23 to 25/03/23 at different sites and results shown in **Table 9**. Value of all air quality parameters PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, CO, HC and VOC were within the standard.

**Table 9: Construction phase Ambient Air Quality Monitoring data at working sites (Ujjayanta Palace)**

| Status of Ambient Air Quality |                                 |  |                                       |                                      |                                      |                                   |                                  |                          |
|-------------------------------|---------------------------------|--|---------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------------------------|--------------------------|
| S. No                         | Site name/ Date of Monitoring   | Air pollutants                         |                                       |                                      |                                      |                                   |                                  |                          |
|                               |                                 | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>2</sub><br>µg/m <sup>3</sup> | CO<br>(8Hrs)<br>mg/m <sup>3</sup> | Hydrocarbon<br>µg/m <sup>3</sup> | VOC<br>µg/m <sup>3</sup> |
|                               |                                 | CPCB<br>standard<br>60                 | CPCB<br>standard<br>100               | CPCB<br>standard<br>80               | CPCB<br>standard<br>80               | CPCB<br>standard<br>2             |                                  |                          |
|                               | <b>Ujjayanta Palace</b>         |  |                                       |                                      |                                      |                                   |                                  |                          |
| <b>AQ1</b>                    | Near Town Hall                  | 50.1                                   | 87.1                                  | 6.8                                  | 26.5                                 | 0.14                              | <1.0                             | <1.0                     |
| <b>AQ2</b>                    | MTB School                      | 48.2                                   | 80.1                                  | 5.8                                  | 25.0                                 | 0.12                              | <1.0                             | <1.0                     |
| <b>AQ3</b>                    | Women's College                 | 46.2                                   | 83.5                                  | 5.2                                  | 23.5                                 | 0.17                              | <1.0                             | <1.0                     |
| <b>AQ4</b>                    | Guest house near Jagganath bari | 43.8                                   | 79.1                                  | 5.6                                  | 21.8                                 | 0.14                              | <1.0                             | <1.0                     |

(Note: Monitoring done under the project, Date of Sampling: 23/03/23 – 25/03/23).



**Figure 4: Comparison of Baseline Data and Construction Phase PM<sub>10</sub> data for Ambient Air Quality (Ujjayanta Palace)**

40. All the monitoring locations are within the city area and fall under residential, and other areas and the subsequent CPCB standards are being followed. Based on the above graphs, it is noted that the construction phase data is more or less same or marginally less than the baseline data and all values are below their respective CPCB standards.

41. Construction phase air quality monitoring was also carried out for MBB College Lake project site during 26/03/23 to 29/03/23 covering different work locations and the values are depicted in **Table 10**. It is recorded that all air quality parameters are within the standard levels.

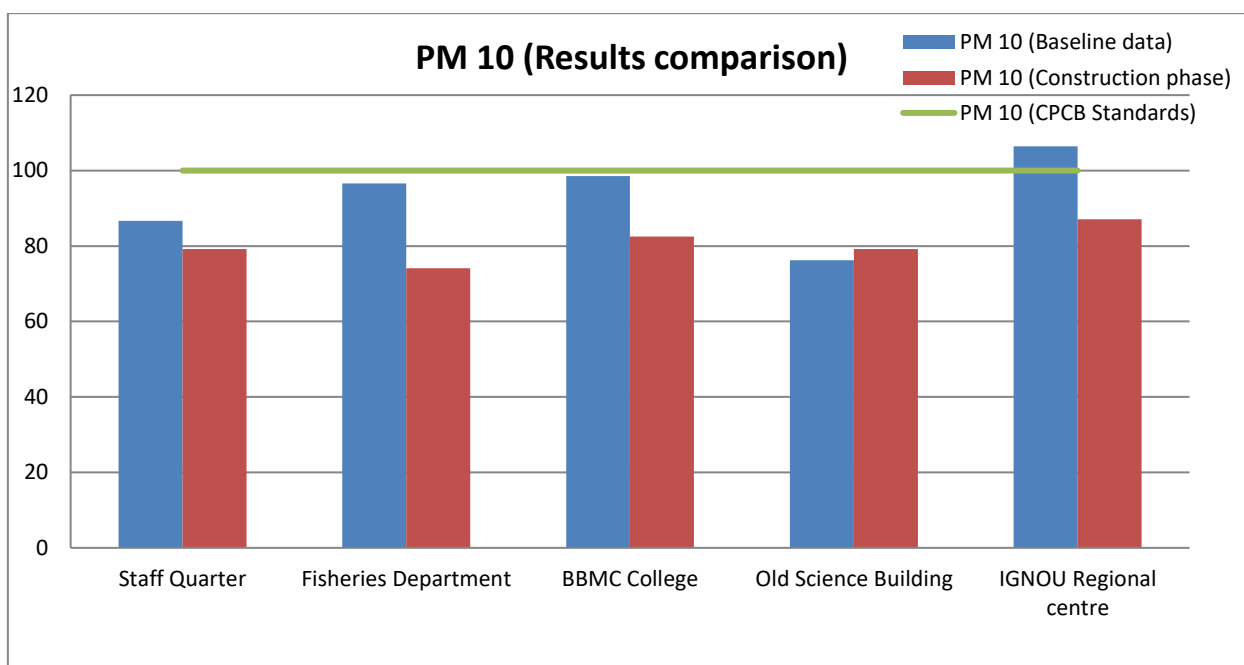
**Table 10: Construction phase Ambient Air Quality Monitoring data at working sites (MBB College Lake)**

| Status of Ambient Air Quality |                                  |  |                                       |                                      |                                      |                                   |                                  |                          |
|-------------------------------|----------------------------------|--|---------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------------------------|--------------------------|
| S. No                         | Site name/<br>Date of Monitoring | Air pollutants                         |                                       |                                      |                                      |                                   |                                  |                          |
|                               |                                  | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>2</sub><br>µg/m <sup>3</sup> | CO<br>(8Hrs)<br>mg/m <sup>3</sup> | Hydrocarbon<br>µg/m <sup>3</sup> | VOC<br>µg/m <sup>3</sup> |
|                               |                                  | CPCB<br>standard<br>60                 | CPCB<br>standard<br>100               | CPCB<br>standard<br>80               | CPCB<br>standard<br>80               | CPCB<br>standard<br>2             |                                  |                          |
|                               | <b>MBB College Lake</b>          |  |                                       |                                      |                                      |                                   |                                  |                          |
| <b>AQ1</b>                    | Staff Quarter                    | 43.1                                   | 79.2                                  | 5.8                                  | 25.0                                 | 0.17                              | <1.0                             | <1.0                     |
| <b>AQ2</b>                    | Fisheries Department             | 40.1                                   | 74.1                                  | 6.2                                  | 26.5                                 | 0.11                              | <1.0                             | <1.0                     |



| Status of Ambient Air Quality |                                  |  |                                       |                                      |                                      |                                   |                                  |                          |
|-------------------------------|----------------------------------|--|---------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------------------------|--------------------------|
| S. No                         | Site name/<br>Date of Monitoring | Air pollutants                         |                                       |                                      |                                      |                                   |                                  |                          |
|                               |                                  | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>2</sub><br>µg/m <sup>3</sup> | CO<br>(8Hrs)<br>mg/m <sup>3</sup> | Hydrocarbon<br>µg/m <sup>3</sup> | VOC<br>µg/m <sup>3</sup> |
|                               |                                  | CPCB<br>standard<br>60                 | CPCB<br>standard<br>100               | CPCB<br>standard<br>80               | CPCB<br>standard<br>80               | CPCB<br>standard<br>2             |                                  |                          |
| AQ3                           | BBMC College                     | 46.2                                   | 82.5                                  | 6.8                                  | 26.5                                 | 0.15                              | <1.0                             | <1.0                     |
| AQ4                           | Old Science Building             | 47.2                                   | 79.2                                  | 5.2                                  | 23.8                                 | 0.18                              | <1.0                             | <1.0                     |
| AQ5                           | IGNOU Regional Center            | 51.8                                   | 87.1                                  | 4.8                                  | 28.5                                 | 0.19                              | <1.0                             | <1.0                     |

(Note: Monitoring done under the project, Date of Sampling: 26/03/23 – 29/03/23).



**Figure 5: Comparison of Baseline Data and Construction Phase PM<sub>10</sub> data for Ambient Air Quality (MBB College Lake)**

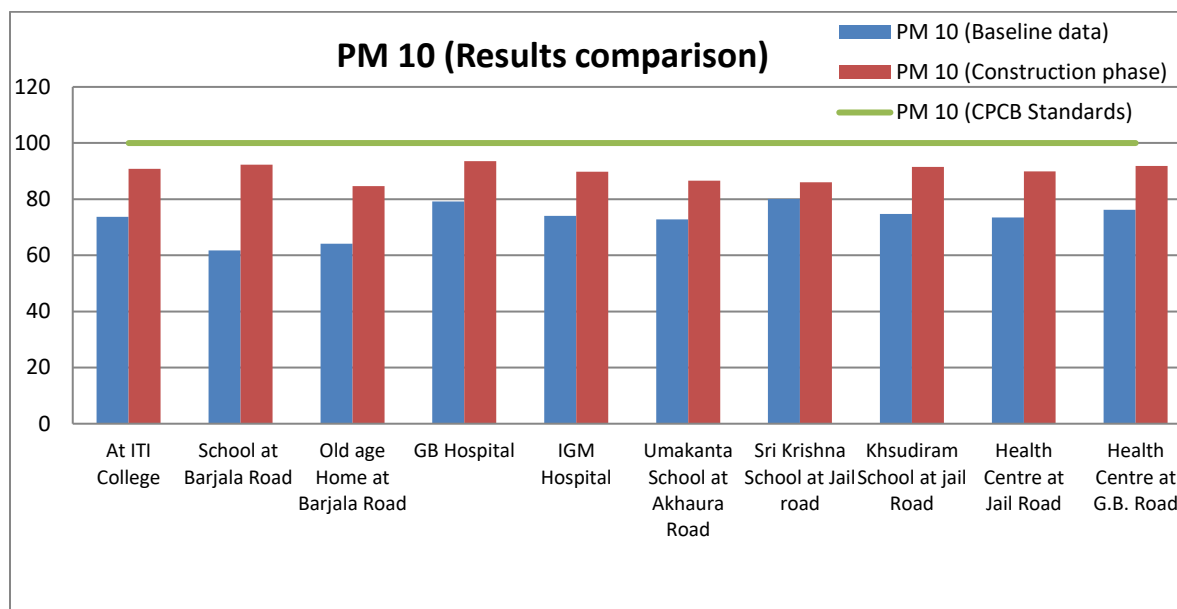
42. All the monitoring locations are within the city area and fall under residential, rural and other areas and the subsequent CPCB standards are being followed. Above graphs indicate that construction phase air quality data is almost equal or marginally lower than the baseline data, except the PM<sub>10</sub>, baseline data, which was marginally higher than the CPCB standards at IGNOU Regional center area, rest are below their respective CPCB standards.

43. Construction phase air quality monitoring was carried out for Smart Roads project site during 20/03/23 and 25/03/23 and the values are depicted in **Table 11**. Value of all air quality parameters was within the standard levels.

**Table 11: Construction phase Ambient Air Quality Monitoring data at working sites (Smart Roads)**

| Status of Ambient Air Quality |   |  |                                       |                                      |                                      |                                   |                                  |                          |
|-------------------------------|---|--|---------------------------------------|--------------------------------------|--------------------------------------|-----------------------------------|----------------------------------|--------------------------|
| S. No                         | Site name/ Date of Monitoring                           | Air pollutants                         |                                       |                                      |                                      |                                   |                                  |                          |
|                               |   | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>2</sub><br>µg/m <sup>3</sup> | CO<br>(8Hrs)<br>mg/m <sup>3</sup> | Hydrocarbon<br>µg/m <sup>3</sup> | VOC<br>µg/m <sup>3</sup> |
|                               |   | CPCB<br>standard<br>60                 | CPCB<br>standard<br>100               | CPCB<br>standard<br>80               | CPCB<br>standard<br>80               | CPCB<br>standard<br>2             |                                  |                          |
|                               | <b>Smart Roads</b>                                      |  |                                       |                                      |                                      |                                   |                                  |                          |
| <b>AQ1</b>                    | Near GB Hospital<br>21/03/2023                          | 55.2                                   | 93.6                                  | 21.8                                 | 32.5                                 | 0.16                              | ND                               | ND                       |
| <b>AQ2</b>                    | Near Higher Secondary School Barjala Road<br>20/03/2023 | 54.8                                   | 92.3                                  | 26.2                                 | 34.6                                 | 0.19                              | ND                               | ND                       |
| <b>AQ3</b>                    | Shri Krishna Mission School<br>23/03/2023               | 47.3                                   | 86.0                                  | 22.1                                 | 29.2                                 | 0.15                              | ND                               | ND                       |
| <b>AQ4</b>                    | Kshudiram School at Jail Road<br>23/13/2023             | 52.0                                   | 91.5                                  | 19.8                                 | 30.6                                 | 0.14                              | ND                               | ND                       |
| <b>AQ5</b>                    | Health Centre at Jail Ashram Road<br>25/03/2023         | 48.6                                   | 89.9                                  | 18.9                                 | 26.7                                 | 0.14                              | ND                               | ND                       |
| <b>AQ6</b>                    | Health Centre at GB Road<br>23/03/2023                  | 53.7                                   | 91.8                                  | 19.8                                 | 32.5                                 | 0.19                              | ND                               | ND                       |
| <b>AQ7</b>                    | Old Age Home at Barjala Road<br>20/03/2023              | 42.7                                   | 84.7                                  | 20.5                                 | 28.2                                 | 0.14                              | ND                               | ND                       |
| <b>AQ8</b>                    | Near IGM Hospital<br>23/03/2023                         | 51.2                                   | 89.8                                  | 26.8                                 | 32.0                                 | 0.11                              | ND                               | ND                       |
| <b>AQ9</b>                    | Near Umakanta School at Akhaura Road<br>23/03/2023      | 53.9                                   | 86.6                                  | 23.3                                 | 31.4                                 | 0.13                              | ND                               | ND                       |
| <b>AQ10</b>                   | ITI College<br>21/03/2023                               | 51.6                                   | 90.8                                  | 25.0                                 | 27.1                                 | 0.19                              | ND                               | ND                       |

(Note. Monitoring done under project), ND- Not detected



**Figure 6: Comparison of Baseline Data and Construction Phase PM<sub>10</sub> Data for Ambient Air Quality (Smart Roads)**

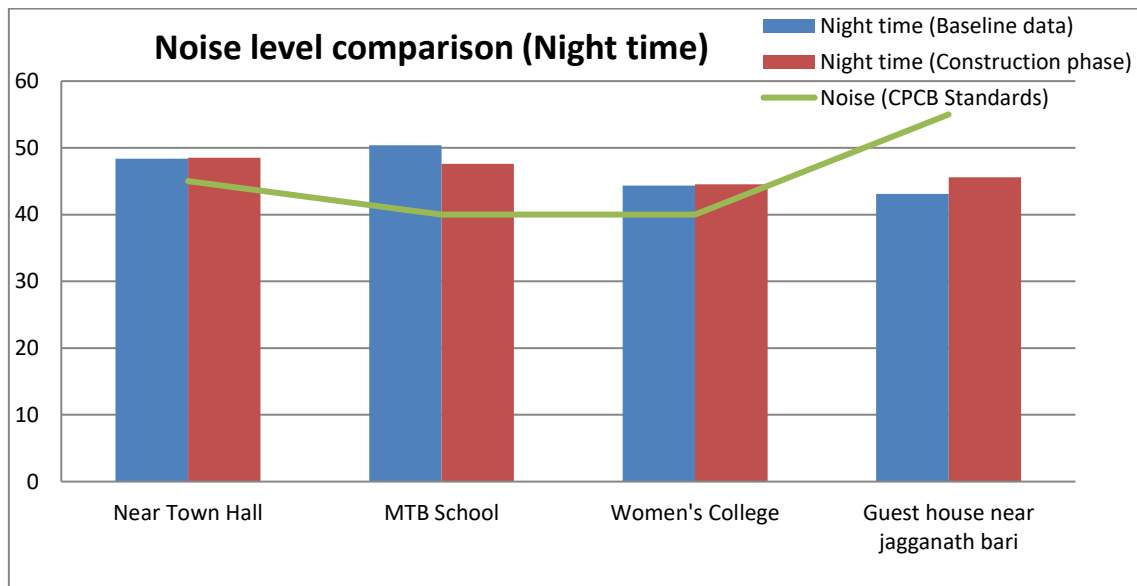
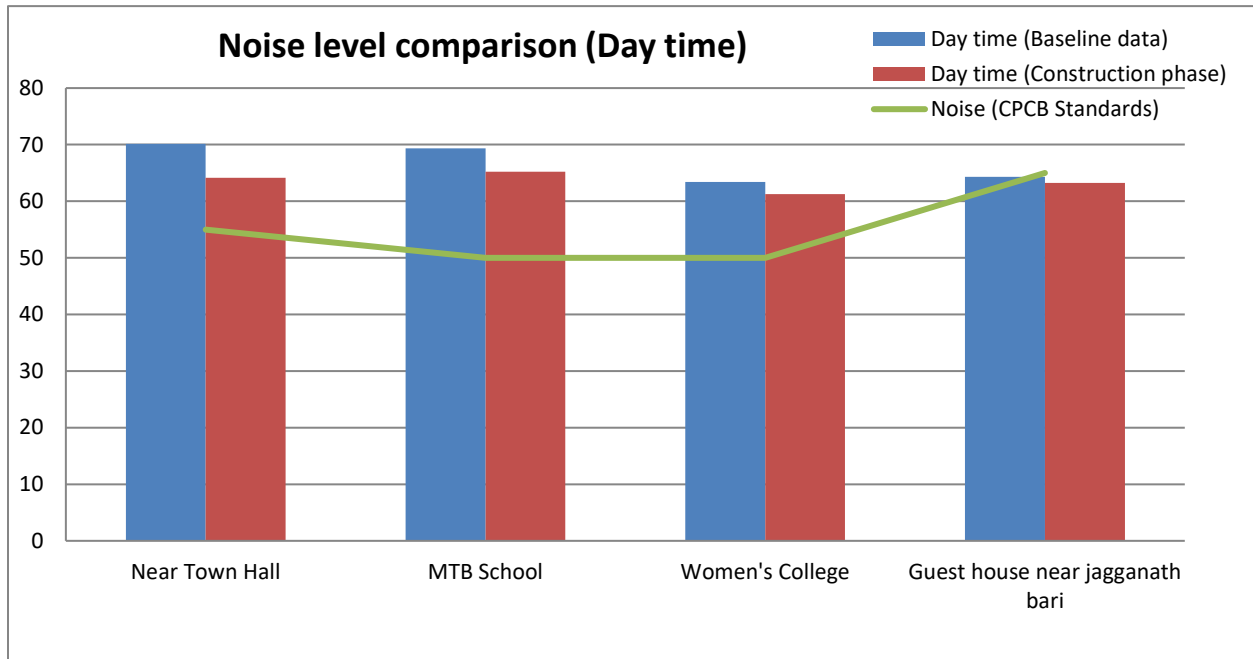
44. All the monitoring sites were located in the city area and fall under residential, rural and other areas and the subsequent CPCB standards are being followed. Based on the above graphs, the construction phase data is found to be higher than the baseline data may be due to construction activities, site preparation. More dust suppression is required at construction site. The Construction Phase Air Quality data is however found to be below the CPCB standards.

45. Noise level monitoring has been conducted from 25/03/23 to 26/03/23 during construction phase, covering all working locations of Ujjayanta Palace. The measured noise levels are shown below in **Table 12**. Noise levels was above the standard in most of the cases, except measured at commercial area during day time. There is no as such variation in pre- construction and during construction noise level.

**Table 12: Construction Phase Noise Level Monitoring Data at Project Location Sites and Surroundings (Ujjayanta Palace)**

| Sr. No. | Monitoring Locations            | Location Category | Noise Level in dB (A)   |                  |                          |                  |
|---------|---------------------------------|-------------------|-------------------------|------------------|--------------------------|------------------|
|         |                                 |                   | Day Time<br>6 AM- 10 PM |                  | Night Time<br>10 PM—6 AM |                  |
|         |                                 |                   | Leq in dB(A)            | Standard (dB(A)) | Leq in dB(A)             | Standard (dB(A)) |
| 1       | Near Town Hall                  | Residential Area  | 64.12                   | 55               | 48.50                    | 45               |
| 2       | MTB School                      | Silent Area       | 65.23                   | 50               | 47.60                    | 40               |
| 3       | Women's College                 | Silent Area       | 61.27                   | 50               | 44.55                    | 40               |
| 4       | Guest House bear Jagganath bari | Commercial Area   | 63.24                   | 65               | 45.61                    | 55               |

(Project data, Date of sampling:25/03/23 to 26/03/23).



**Figure 7: Comparison of Baseline Data and Construction Phase Data for Noise Level (Ujjayanta Palace)**

46. Based on the above graphs, it is noted that the construction phase noise level data is same as that of baseline monitoring data generated before construction. The Baseline Monitoring data was also higher than the prescribed standards and hence it can be concluded that construction activity is not enhance ambient noise level of the adjacent area.

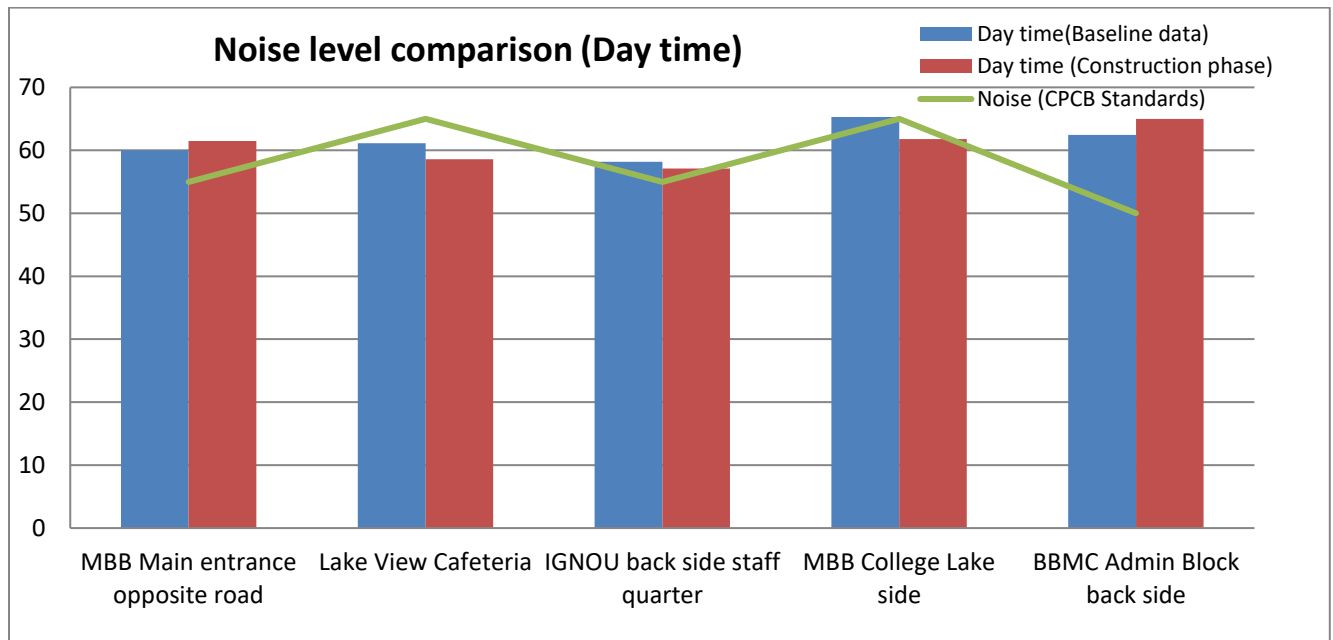
47. Construction phase noise level monitoring has been conducted from 25/03/2023 to 26/03/2023 covering all working locations of MBB College Lake. The measured noise levels

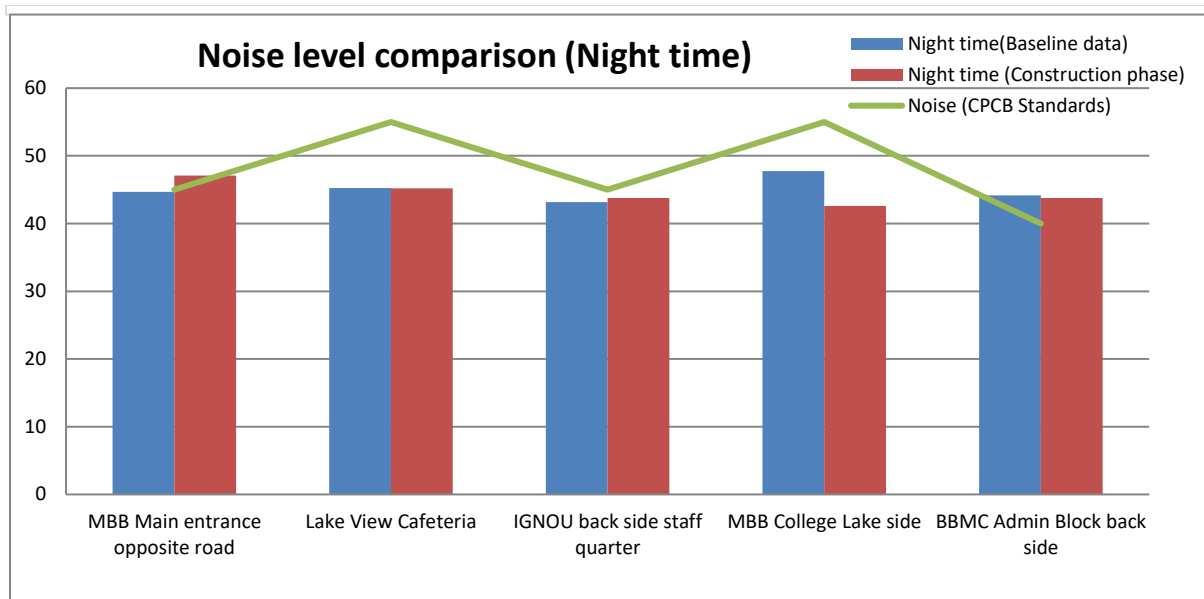
are given below in **Table 13**. It is noted that noise levels are above the standards mostly during daytime, except commercial areas.

**Table 13: Construction Phase Noise Level Monitoring Data at Project Location Sites and Surroundings(MBB College Lake)**

| Sr. No. | Monitoring Locations            | Location Category | Noise Level in dB (A)   |                  |                          |                  |
|---------|---------------------------------|-------------------|-------------------------|------------------|--------------------------|------------------|
|         |                                 |                   | Day Time<br>6 AM- 10 PM |                  | Night Time<br>10 PM—6 AM |                  |
|         |                                 |                   | Leq in dB(A)            | Standard (dB(A)) | Leq in dB(A)             | Standard (dB(A)) |
| 1       | MBB Main entrance opposite road | Residential Area  | 61.5                    | 55               | 47.1                     | 45               |
| 2       | Lake View Cafeteria             | Commercial Area   | 58.6                    | 65               | 45.2                     | 55               |
| 3       | IGNOU back side staff quarter   | Residential Area  | 57.1                    | 55               | 43.8                     | 45               |
| 4       | MBB College Lake side           | Commercial Area   | 61.8                    | 65               | 42.6                     | 55               |
| 5       | BBMC Admin Block back side      | Silence Area      | 65.0                    | 50               | 43.8                     | 40               |

(Project data, Date of sampling: 25/03/2023 to 26/03/2023)





**Figure 8: Comparison of Baseline Data and Construction Phase Data for Noise Level (MBB College Lake)**

48. Based on the above graphs, it is noted that the construction phase noise level data is more or less same as that of baseline monitoring data generated before construction. The baseline monitoring data was higher than the prescribed standards for daytime particularly at residential & silence area and for the night time, majorly the noise level is below the prescribed standards.

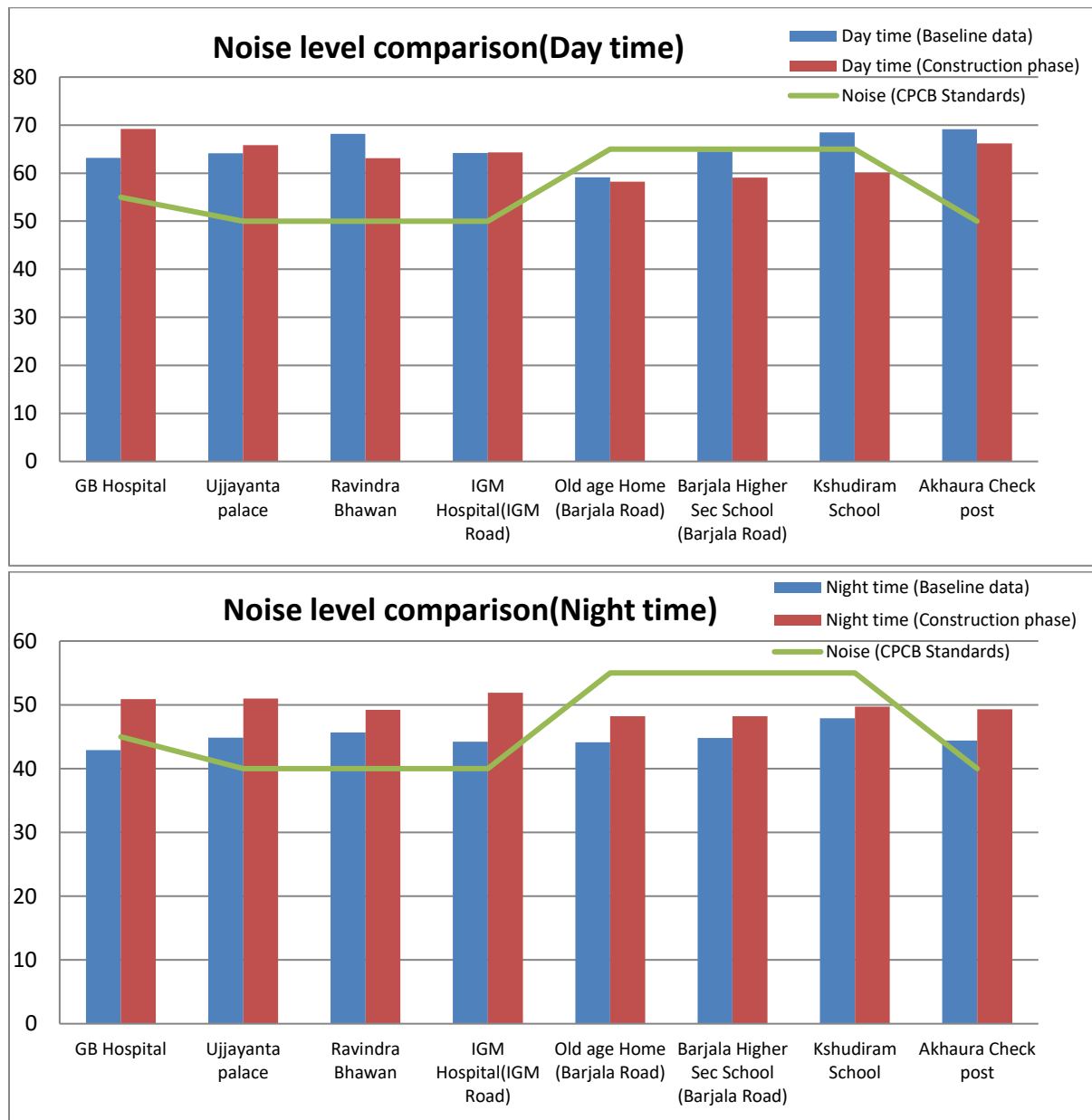
49. Construction phase noise level monitoring has been conducted from 22/03/23 to 23/03/23 covering all working locations near Smart Roads project area. The measured noise levels are given below in **Table 14**. Noise levels was below the standard particularly at commercial areas. At residential and silence zone noise level exceed the standard. Local activity is the reason of higher noise level.

**Table 14: Construction Phase Noise Monitoring Data at Project Location Sites and Surroundings (Smart Roads)**

| Sr. No. | Monitoring Locations                     | Location Category | Noise Level in dB (A)   |                  |                          |                  |
|---------|--|-------------------|-------------------------|------------------|--------------------------|------------------|
|         |  |                   | Day Time<br>6 AM- 10 PM |                  | Night Time<br>10 PM—6 AM |                  |
|         |  |                   | Leq in dB(A)            | Standard (dB(A)) | Leq in dB(A)             | Standard (dB(A)) |
| 1       | GB Hospital                              | Residential Area  | 69.2                    | 55               | 50.9                     | 45               |
| 2       | Ujjayanta Palace                         | Silence Area      | 65.8                    | 50               | 51.0                     | 40               |
| 3       | Ravindra Bhawan                          | Silence Area      | 63.1                    | 50               | 49.2                     | 40               |
| 4       | IGM Hospital Road (Near IGM Hospital)    | Silence Area      | 64.3                    | 50               | 51.9                     | 40               |
| 5       | Old Age Home (Barjala Road)              | Commercial Area   | 58.2                    | 65               | 48.2                     | 55               |
| 6       | Barjala Higher Sec School (Barjala Road) | Commercial Area   | 59.1                    | 65               | 48.2                     | 55               |
| 7       | Kshudiram School                         | Commercial        | 60.1                    | 65               | 49.7                     | 55               |

| Sr. No. | Monitoring Locations | Location Category | Noise Level in dB (A)   |                  |                          |                  |
|---------|----------------------|-------------------|-------------------------|------------------|--------------------------|------------------|
|         |                      |                   | Day Time<br>6 AM- 10 PM |                  | Night Time<br>10 PM—6 AM |                  |
|         |                      |                   | Leq in dB(A)            | Standard (dB(A)) | Leq in dB(A)             | Standard (dB(A)) |
|         |                      | Area              |                         |                  |                          |                  |
| 8       | Akhaura Check post   | Silence Area      | 66.2                    | 50               | 49.3                     | 40               |

(Project data, Date of sampling: 22/03/2023 – 23/03/2023)



**Figure 9: Comparison of Baseline Data and Construction Phase Data for Noise Level (Smart Roads)**

50. Based on the above graphs, it is noted that the construction phase noise level data is equal or marginally less than the baseline monitoring data for daytime and for night-time, the construction phase data is slightly higher than the baseline monitoring data. It is noted that baseline monitoring noise level data was higher than the prescribed standards for daytime and for the night-time at few locations. Recorded noise level depends on local activity.

51. For construction phase data generation, surface water sample at Ujjayanta Palace project site have been collected on 27/03/2023 by NABL recognized Lab and analysed. Water Testing result is shown in **Table 15**. Concentration of BOD and total coliform count exceed the standard for Class B.

**Table 15: Construction Phase Physico-chemical, chemical & biological analyses Data of Surface water (Ujjayanta Palace)**

| S. No | Parameters                    | Location              |                       | Standard- IS 2296 |           |
|-------|-------------------------------|-----------------------|-----------------------|-------------------|-----------|
|       |                               | SW1<br>(Eastern Lake) | SW2<br>(Western Lake) | Class - B         | Class - D |
| 1     | Temperature(°C)               | 23.0                  | 23.5                  | -                 | -         |
| 2     | pH                            | 6.94                  | 7.10                  | 6.5- 8.5          | 6.5 -8.5  |
| 3     | Conductivity (µmhos/cm)       | 211                   | 215                   | -                 | 1000      |
| 4     | Turbidity (NTU)               | 1.68                  | 1.93                  | -                 | -         |
| 5     | Total Dissolved Solid(mg/l)   | 134                   | 137                   | -                 | -         |
| 6     | Total Suspended Solid(mg/l)   | 12.40                 | 12                    | -                 | -         |
| 7     | Total Hardness(mg/l)          | 27                    | 28                    | -                 | -         |
| 8     | Dissolved Oxygen(mg/l)        | 6.9                   | 6.8                   | 5 (min)           | 4 (min)   |
| 9     | BOD (mg/l)                    | 10                    | 11                    | 3                 | -         |
| 10    | COD (mg/l)                    | 66.64                 | 71.4                  | -                 | -         |
| 11    | Oil & Grease(mg/l)            | <1.0                  | <1.0                  | -                 | 0.1       |
| 12    | Total Kjeldahl Nitrogen(mg/l) | 3.66                  | 3.75                  | -                 | -         |
| 13    | Chloride(mg/l)                | 24.46                 | 24.95                 | -                 | -         |
| 14    | Sulphate(mg/l)                | 12                    | 12.8                  | -                 | -         |
| 15    | Nitrate (mg/l)                | 2.86                  | 2.92                  | -                 | -         |
| 16    | Alkalinity(mg/l)              | 23.1                  | 24.15                 | -                 | -         |
| 17    | Bi-Carbonate(mg/l)            | 28.18                 | 29.46                 | -                 | -         |
| 18    | Phosphate(mg/l)               | 0.89                  | 0.90                  | -                 | -         |
| 19    | Calcium(mg/l)                 | 7.01                  | 6.81                  | -                 | -         |
| 20    | Magnesium(mg/l)               | 2.28                  | 2.64                  | -                 | -         |
| 21    | Sodium(mg/l)                  | 16.33                 | 18.09                 | -                 | -         |
| 22    | Manganese(mg/l)               | <0.1                  | <0.1                  | -                 | -         |
| 23    | Zinc(mg/l)                    | 0.11                  | 0.12                  | -                 | -         |
| 24    | Iron(mg/l)                    | 1.28                  | 1.26                  | -                 | -         |
| 25    | Cadmium (mg/l)                | <0.001                | <0.001                | -                 | -         |
| 26    | Copper (mg/l)                 | <0.04                 | <0.04                 | -                 | -         |
| 27    | Nickel (mg/l)                 | <0.1                  | <0.1                  | -                 | -         |
| 28    | Lead (mg/l)                   | <0.05                 | <0.05                 | -                 | -         |



|    |                            |                       |                       |     |   |
|----|----------------------------|-----------------------|-----------------------|-----|---|
| 29 | Mercury (mg/l)             | <0.001                | <0.001                | -   | - |
| 30 | Total Chromium(mg/l)       | <0.02                 | <0.02                 | -   | - |
| 31 | Arsenic (mg/l)             | <0.01                 | <0.01                 | 0.2 | - |
| 32 | Silica (mg/l)              | 14.81                 | 14.81                 | -   | - |
| 33 | Hexavalent Chromium(mg/l)  | <0.1                  | <0.1                  | 1.0 | - |
| 34 | Total Coliform (CFU/100ml) | 2.5 x 10 <sup>3</sup> | 2.6 x 10 <sup>3</sup> | 500 | - |
| 35 | Fecal Coliform (CFU/100l)  | 1.3 x 10 <sup>3</sup> | 1.2 x 10 <sup>3</sup> | -   | - |

(Class B – Water for outdoor bathing, Class D - Water for fish culture and wildlife propagation.), BDL- Below Detection Limit

52. For construction phase data generation, Surface water sample at MBB College Lake project site have been collected on 27/03/2023 by NABL Lab and analysed. Water Testing result is shown in **Table 16**. Concentration of BOD and total coliform count exceed the standard for Class B.

**Table 16: Construction Phase Physico-chemical, chemical & biological analyses Data of Surface water (MBB College Lake)**

| S. No | Parameters                    | Location               |                                  | Standard- IS 2296 |           |
|-------|-------------------------------|------------------------|----------------------------------|-------------------|-----------|
|       |                               | SW-1<br>(Bathing Ghat) | SW-2<br>(MBB Main entrance Pond) | Class - B         | Class - D |
| 1     | Temperature(°C)               | 23.5                   | 23.0                             | -                 | -         |
| 2     | pH                            | 6.75                   | 6.69                             | 6.5- 8.5          | 6.5 -8.5  |
| 3     | Conductivity (µmhos/cm)       | 1170                   | 355                              | -                 | 1000      |
| 4     | Turbidity(NTU)                | 1.88                   | 2.2                              | -                 | -         |
| 5     | Total Dissolved Solid(mg/l)   | 749                    | 227                              | -                 | -         |
| 6     | Total Suspended Solid(mg/l)   | 24.8                   | 18.6                             | -                 | -         |
| 7     | Total Hardness(mg/l)          | 264                    | 76.0                             | -                 | -         |
| 8     | Dissolved Oxygen(mg/l)        | 6.5                    | 7.0                              | 5 (min)           | 4 (min)   |
| 9     | BOD (mg/l)                    | 25.0                   | 12.0                             | 3                 | -         |
| 10    | COD (mg/l)                    | 161.84                 | 76.16                            | -                 | -         |
| 11    | Oil & Grease(mg/l)            | <1.0                   | <1.0                             | -                 | 0.1       |
| 12    | Total Kjeldahl Nitrogen(mg/l) | 8.21                   | 3.87                             | -                 | -         |
| 13    | Chloride(mg/l)                | 158.01                 | 23.97                            | -                 | -         |
| 14    | Sulphate(mg/l)                | 24.2                   | 12.0                             | -                 | -         |
| 15    | Nitrate (mg/l)                | 13.93                  | 3.57                             | -                 | -         |
| 16    | Alkalinity(mg/l)              | 110.25                 | 65.1                             | -                 | -         |
| 17    | Bi-Carbonate(mg/l)            | 134.51                 | 79.42                            | -                 | -         |
| 18    | Phosphate(mg/l)               | 2.09                   | 0.88                             | -                 | -         |
| 19    | Calcium(mg/l)                 | 64.13                  | 16.83                            | -                 | -         |
| 20    | Magnesium(mg/l)               | 24.96                  | 8.16                             | -                 | -         |
| 21    | Sodium(mg/l)                  | 62.14                  | 17.63                            | -                 | -         |
| 22    | Manganese(mg/l)               | <0.1                   | <0.1                             | -                 | -         |
| 23    | Zinc(mg/l)                    | 0.11                   | 0.1                              | -                 | -         |
| 24    | Iron(mg/l)                    | 1.62                   | 1.09                             | -                 | -         |

|    |                           |                       |                       |     |   |
|----|---------------------------|-----------------------|-----------------------|-----|---|
| 25 | Cadmium (mg/l)            | <0.001                | <0.001                | -   | - |
| 26 | Copper (mg/l)             | <0.04                 | <0.04                 | -   | - |
| 27 | Nickel (mg/l)             | <0.1                  | <0.1                  | -   | - |
| 28 | Lead (mg/l)               | <0.05                 | <0.05                 | -   | - |
| 29 | Mercury (mg/l)            | <0.001                | <0.001                | -   | - |
| 30 | Total Chromium(mg/l)      | <0.02                 | <0.02                 | -   | - |
| 31 | Arsenic (mg/l)            | <0.01                 | <0.01                 | 0.2 | - |
| 32 | Silica (mg/l)             | 10.13                 | 5.6                   | -   | - |
| 33 | Hexavalent Chromium(mg/l) | <0.1                  | <0.1                  | 1.0 | - |
| 34 | Total Coliform(CFU/100ml) | 2.4 x 10 <sup>3</sup> | 2.0 x 10 <sup>3</sup> | 500 | - |
| 35 | Fecal Coliform (CFU/100l) | 2.5 x 10 <sup>3</sup> | 1.8 x 10 <sup>3</sup> | -   | - |

(Class B – Water for outdoor bathing, Class D - Water for fish culture and wildlife propagation.),BDL- Below Detection Limit

53. For construction phase data generation, Surface water sample at Smart Roads project site have been collected on 22/03/2023 by NABL Lab and analysed. Water Testing result is shown in **Table 17**. It is noted that concentration of BOD and total coliform count exceed the standard for Class B.

**Table 17: Construction Phase Physico-chemical, chemical & biological analyses Data of Surface water (Smart Roads)**

| S. No | Parameters                  | Location                          |                                    | Standard- IS 2296 |           |
|-------|-----------------------------|-----------------------------------|------------------------------------|-------------------|-----------|
|       |                             | SW-1<br>(Internal road of IT Hub) | SW-2<br>(Pond at Jail Ashram Road) | Class - B         | Class - D |
| 1     | pH                          | 7.31                              | 7.21                               | 6.5- 8.5          | 6.5 -8.5  |
| 2     | Total Dissolved Solid(mg/l) | 186.6                             | 116.2                              | -                 | -         |
| 3     | Total Suspended Solid(mg/l) | 19.9                              | 25.0                               | -                 | -         |
| 4     | Total Hardness(mg/l)        | 31.9                              | 23.1                               | -                 | -         |
| 5     | Dissolved Oxygen(mg/l)      | 6.6                               | 4.9                                | 5 (min)           | 4 (min)   |
| 6     | BOD (mg/l)                  | 16.7                              | 11.9                               | 3                 | -         |
| 7     | Chloride(mg/l)              | 20.1                              | 11.6                               | -                 | -         |
| 8     | Flouride (mg/l)             | 0.16                              | 0.12                               | -                 | -         |
| 9     | Salinity (ppt)              | 0.0                               | 0.0                                | -                 | -         |
| 10    | Zinc(mg/l)                  | BDL                               | BDL                                | -                 | -         |
| 11    | Copper (mg/l)               | BDL                               | BDL                                | -                 | -         |
| 12    | Nickel (mg/l)               | BDL                               | BDL                                | -                 | -         |
| 13    | Lead (mg/l)                 | BDL                               | BDL                                | -                 | -         |
| 14    | Total Chromium(mg/l)        | BDL                               | BDL                                | -                 | -         |
| 15    | Arsenic (mg/l)              | BDL                               | BDL                                | 0.2               | -         |
| 16    | Total Coliform(CFU/100ml)   | 2.2 x 10 <sup>3</sup>             | 1.4 x 10 <sup>3</sup>              | 500               | -         |

(Class B – Water for outdoor bathing, Class D - Water for fish culture and wildlife propagation.), BDL- Below Detection Limit

54. Construction Phase Ground water sampling at Ujjayanta Palace project site have

been done on 27/03/2023 by NABL Lab. Results are depicted in **Table 18**. Concentration of parameters for ground water are within the prescribed standard except Turbidity, Iron concentration. Both the parameters exceed maximum permissible limit.

**Table 18: Construction Phase Physico-chemical, chemical & biological analyses  
Data of Ground water (Ujjayanta palace)**

| S. No                      | Parameters                      | Location                               |                     | Acceptable Limit IS<br>10500-2012 | Permissible Limit IS<br>10500-2012 |
|----------------------------|---------------------------------|--|---------------------|-----------------------------------|------------------------------------|
|                            |                                 | GW-1<br>(Women's<br>College<br>Ground) | GW-2<br>(Town Hall) |                                   |                                    |
| <b>Physical Parameters</b> |                                 |  |                     |                                   |                                    |
| 1                          | Odour (TON)                     | 2                                      | 2                   | Agreeable                         | Agreeable                          |
| 2                          | Colour in hazen Unit            | 3.0                                    | 2.0                 | 5                                 | 15                                 |
| 3                          | Taste                           | Agreeable                              | Agreeable           | Agreeable                         | Agreeable                          |
| 4                          | Turbidity NTU                   | 6.0                                    | 8.0                 | 1.0                               | 5.0                                |
| 5                          | Total Dissolved Solid<br>(mg/l) | 306.0                                  | 296.0               | 500                               | 2000                               |
| 6                          | pH                              | 6.91                                   | 6.98                | 6.5-8.5                           | No Relaxation                      |
| <b>Chemical Parameters</b> |                                 |  |                     |                                   |                                    |
| 1                          | Aluminium (mg/l)                | <0.02                                  | <0.02               | 0.03                              | 0.2                                |
| 2                          | Ammonia (mg/l)                  | <0.1                                   | <0.1                | 0.5                               | No Relaxation                      |
| 3                          | Anionic<br>detergents(mg/l)     | <0.05                                  | <0.05               | 0.2                               | 1.0                                |
| 4                          | Barium(mg/l)                    | <0.1                                   | <0.1                | 0.7                               | No Relaxation                      |
| 5                          | Boron (mg/l)                    | 0.82                                   | 0.76                | 0.5                               | 1.0                                |
| 6                          | Calcium (mg/l)                  | 20.4                                   | 20.40               | 75.0                              | 200.0                              |
| 7                          | Chloramines(mg/l)               | <0.1                                   | <0.1                | 4.0                               | No Relaxation                      |
| 8                          | Chloride (mg/l)                 | 57.73                                  | 59.19               | 250.0                             | 1000.0                             |
| 9                          | Copper (mg/l)                   | <0.04                                  | <0.04               | 0.05                              | 1.5                                |
| 10                         | Fluoride (mg/l)                 | <0.1                                   | <0.1                | 1.0                               | 1.5                                |
| 11                         | Residual Chlorine<br>(mg/l)     | <0.1                                   | <0.1                | 0.2                               | 1.0                                |
| 12                         | Iron (mg/l)                     | 1.66                                   | 1.72                | 1.0                               | No Relaxation                      |
| 13                         | Magnesium (mg/l)                | 7.2                                    | 6.48                | 30.0                              | 100.0                              |
| 14                         | Manganese (mg/l)                | <0.05                                  | <0.05               | 0.1                               | 0.3                                |
| 15                         | Mineral Oil(mg/l)               | <0.01                                  | <0.01               | 0.5                               | No Relaxation                      |
| 16                         | Nitrate (mg/l)                  | 2.23                                   | 2.46                | 45.0                              | No Relaxation                      |
| 17                         | Phenolic Compound<br>(mg/l)     | <0.001                                 | <0.001              | 0.001                             | 0.002                              |
| 18                         | Selenium (mg/l)                 | <0.01                                  | <0.01               | 0.1                               | No Relaxation                      |
| 19                         | Silver (mg/l)                   | <0.001                                 | <0.001              | 0.1                               | No Relaxation                      |
| 20                         | Sulphate (mg/l)                 | 12.4                                   | 12.6                | 200                               | 400                                |

|    |   |               |               |             |   |
|----|---|---------------|---------------|-------------|---|
| 21 | Sulphide (mg/l)                         | <0.01         | <0.01         | 0.05        | No Relaxation                                 |
| 22 | Alkalinity (mg/l)                       | 88.2          | 77.7          | 200         | 600   |
| 23 | Total Hardness (mg/l)                   | 80.0          | 78.0          | 200         | 600   |
| 24 | Zinc (mg/l)                             | 0.10          | 0.10          | 5           | 15.0  |
| 25 | Cadmium(mg/l)                           | <0.002        | <0.002        | 0.003       | No Relaxation                                 |
| 26 | Cyanide(mg/l)                           | <0.01         | <0.01         | 0.05        | No Relaxation                                 |
| 27 | Lead(mg/l)                              | <0.005        | <0.005        | 0.01        | No Relaxation                                 |
| 28 | Mercury(mg/l)                           | <0.001        | <0.001        | 0.001       | No Relaxation                                 |
| 29 | Molybdenum(mg/l)                        | <0.05         | <0.05         | 0.07        | No Relaxation                                 |
| 30 | Nickel(mg/l)                            | <0.01         | <0.01         | 0.02        | No Relaxation                                 |
| 31 | Polychlorinated Biphenyls(mg/l)         | <0.0004       | <0.0004       | 0.0005      | No Relaxation                                 |
| 32 | Polynuclear Aromatic Hydrocarbons(mg/l) | <0.0001       | <0.0001       | 0.0001      | No Relaxation                                 |
| 33 | Arsenic(mg/l)                           | <0.01         | <0.01         | 0.01        | No Relaxation                                 |
| 34 | Total Chromium(mg/l)                    | <0.02         | <0.02         | 0.05        | No Relaxation                                 |
| 2  | FaecalColiform(CFU/100ml)               | <1, <10, <100 | <1, <10, <100 | <1,<10,<100 | Shall not be detectable in any 100 ml. sample |

Source: Project Data Ground water sampling

55. Construction Phase Ground water sampling at MBB College Lake project site have been done on 27/03/2023 by NABL Lab. Results are shown in **Table 19**. Concentration of parameters for ground water are within the prescribed standard except Boron which exceeds acceptable limit and Turbidity and Iron concentration which exceed maximum permissible limit.

**Table 19: Construction Phase Physico-chemical, chemical & biological analyses Data of Ground water (MBB College Lake)**

| S. No                      | Parameters           | Location                                   |   | Acceptable Limit IS 10500-2012 | Permissible Limit IS 10500-2012 |
|----------------------------|----------------------|--|---|--------------------------------|---------------------------------|
|                            |                      | GW-1 (Opp. BBMC College Residential house) | GW-2 (MBB College main entrance opp. Road residential area) |                                |                                 |
| <b>Physical Parameters</b> |                      |  |   |                                |                                 |
| 1                          | Odour (TON)          | 2  | 2   | Agreeable                      | Agreeable                       |
| 2                          | Colour in Hazen Unit | 3.0  | 2.0   | 5                              | 15                              |
| 3                          | Taste                | Agreeable                                  | Agreeable   | Agreeable                      | Agreeable                       |

|                            |                              |        |        |         |               |
|----------------------------|------------------------------|--------|--------|---------|---------------|
| 4                          | Turbidity NTU                | 7.0    | 6.0    | 1.0     | 5.0           |
| 5                          | Total Dissolved Solid (mg/l) | 258.0  | 308.0  | 500     | 2000          |
| 6                          | pH                           | 6.81   | 6.93   | 6.5-8.5 | No Relaxation |
| <b>Chemical Parameters</b> |                              |        |        |         |               |
| 1                          | Aluminium (mg/l)             | <0.02  | <0.02  | 0.03    | 0.2           |
| 2                          | Ammonia (mg/l)               | <0.1   | <0.1   | 0.5     | No Relaxation |
| 3                          | Anionic detergents(mg/l)     | <0.05  | <0.05  | 0.2     | 1.0           |
| 4                          | Barium(mg/l)                 | <0.1   | <0.1   | 0.7     | No Relaxation |
| 5                          | Boron (mg/l)                 | 0.72   | 0.81   | 0.5     | 1.0           |
| 6                          | Calcium (mg/l)               | 18.44  | 22.41  | 75.0    | 200.0         |
| 7                          | Chloramines(mg/l)            | <0.1   | <0.1   | 4.0     | No Relaxation |
| 8                          | Chloride (mg/l)              | 47.94  | 60.17  | 250.0   | 1000.0        |
| 9                          | Copper (mg/l)                | <0.04  | <0.04  | 0.05    | 1.5           |
| 10                         | Fluoride (mg/l)              | <0.1   | <0.1   | 1.0     | 1.5           |
| 11                         | Residual Chlorine (mg/l)     | <0.1   | <0.1   | 0.2     | 1.0           |
| 12                         | Iron (mg/l)                  | 1.66   | 1.48   | 1.0     | No Relaxation |
| 13                         | Magnesium (mg/l)             | 8.62   | 9.67   | 30.0    | 100.0         |
| 14                         | Manganese (mg/l)             | <0.05  | <0.05  | 0.1     | 0.3           |
| 15                         | Mineral Oil(mg/l)            | <0.01  | <0.01  | 0.5     | No Relaxation |
| 16                         | Nitrate (mg/l)               | 1.65   | 1.89   | 45.0    | No Relaxation |
| 17                         | Phenolic Compound (mg/l)     | <0.001 | <0.001 | 0.001   | 0.002         |
| 18                         | Selenium (mg/l)              | <0.01  | <0.01  | 0.01    | No Relaxation |
| 19                         | Silver (mg/l)                | <0.001 | <0.001 | 0.1     | No Relaxation |
| 20                         | Sulphate (mg/l)              | 15.0   | 18.0   | 200     | 400           |
| 21                         | Sulphide (mg/l)              | <0.01  | <0.01  | 0.05    | No Relaxation |
| 22                         | Alkalinity (mg/l)            | 71.4   | 99.75  | 200     | 600           |
| 23                         | Total Hardness (mg/l)        | 82.0   | 96.0   | 200     | 600           |
| 24                         | Zinc (mg/l)                  | 0.1    | 0.1    | 5       | 15.0          |
| 25                         | Cadmium(mg/l)                | <0.002 | <0.002 | 0.003   | No Relaxation |
| 26                         | Cyanide(mg/l)                | <0.01  | <0.01  | 0.05    | No Relaxation |
| 27                         | Lead(mg/l)                   | <0.005 | <0.005 | 0.01    | No Relaxation |

|                                   |   |             |             |             |   |
|-----------------------------------|---|-------------|-------------|-------------|---|
| 28                                | Mercury(mg/l)                           | <0.001      | <0.001      | <0.001      | No Relaxation                                 |
| 29                                | Molybdenum(mg/l)                        | <0.05       | <0.05       | 0.07        | No Relaxation                                 |
| 30                                | Nickel(mg/l)                            | <0.01       | <0.01       | 0.02        | No Relaxation                                 |
| 31                                | Polychlorinated Biphenyls(mg/l)         | <0.0004     | <0.0004     | 0.0005      | No Relaxation                                 |
| 32                                | Polynuclear Aromatic Hydrocarbons(mg/l) | <0.0001     | <0.0001     | 0.0001      | No Relaxation                                 |
| 33                                | Arsenic(mg/l)                           | <0.01       | <0.01       | 0.01        | No Relaxation                                 |
| 34                                | Total Chromium(mg/l)                    | <0.02       | <0.02       | 0.05        | No Relaxation                                 |
| <b>Bacteriological Parameters</b> |   |             |             |             |   |
| 1                                 | Total Coliform(CFU/100ml)               | <1,<10,<100 | <1,<10,<100 | <1,<10,<100 | Shall not be detectable in any 100 ml. sample |
| 2                                 | Faecal Coliform(CFU/100ml)              | <1,<10,<100 | <1,<10,<100 | <1,<10,<100 | Shall not be detectable in any 100 ml. sample |

Source: Project Data Baseline Ground water sampling

56. Construction Phase Ground water sampling at Smart Roads project site have been done on 22/03/2023 by NABL Lab. Results are depicted in **Table 20** below. Concentration of parameters for ground water are within the prescribed standards.

**Table 20: Construction Phase Physico-chemical, chemical & biological analyses Data of Ground water (Smart Roads)**

| S. No                      | Parameters                   | Location                |                            | Acceptable Limit IS 10500-2012 | Permissible Limit IS 10500-2012 |
|----------------------------|------------------------------|-------------------------|----------------------------|--------------------------------|---------------------------------|
|                            |                              | GW-1                    | GW-2                       |                                |                                 |
|                            |                              | Near Akhaura check post | GB Road near Health Centre |                                |                                 |
| <b>Physical Parameters</b> |                              |                         |                            |                                |                                 |
| 1                          | pH                           | 7.10                    | 7.08                       | 6.5-8.5                        | No Relaxation                   |
| 2                          | Total Dissolved Solid (mg/l) | 201.9                   | 219.9                      | 500                            | 2000                            |
| 3                          | Total Suspended Solids       | BDL                     | BDL                        | Not specified                  | Not specified                   |
| <b>Chemical Parameters</b> |                              |                         |                            |                                |                                 |
| 1                          | Dissolved Oxygen (mg/l)      | 6.1                     | 5.8                        | Not specified                  | Not specified                   |
| 2                          | BOD (mg/l)                   | BDL                     | BDL                        | Not specified                  | Not specified                   |
| 3                          | Salinity (mg/l)              | 0                       | 0                          | Not specified                  | Not specified                   |
| 4                          | Chloride (mg/l)              | 4.0                     | 4.2                        | 250                            | 1000                            |
| 5                          | Copper (mg/l)                | BDL                     | BDL                        | 0.05                           | 1.5                             |
| 6                          | Fluoride (mg/l)              | BDL                     | BDL                        | 1                              | 1.5                             |
| 7                          | Total Hardness (mg/l)        | 39.6                    | 24.8                       | 200                            | 600                             |

| S. No                             | Parameters                | Location                      |                                  | Acceptable Limit<br>IS 10500-2012 | Permissible<br>Limit IS 10500-<br>2012                 |
|-----------------------------------|---------------------------|-------------------------------|----------------------------------|-----------------------------------|--|
|                                   |                           | GW-1                          | GW-2                             |                                   |  |
|                                   |                           | Near<br>Akhaura<br>check post | GB Road<br>near Health<br>Centre |                                   |  |
| 8                                 | Zinc (mg/l)               | BDL                           | BDL                              | 5                                 | 15   |
| 9                                 | Lead(mg/l)                | BDL                           | BDL                              | 0.01                              | No Relaxation  |
| 10                                | Nickel(mg/l)              | BDL                           | BDL                              | 0.02                              | No Relaxation  |
| 11                                | Arsenic(mg/l)             | BDL                           | BDL                              | 0.01                              | No Relaxation  |
| 12                                | Total Chromium(mg/l)      | BDL                           | BDL                              | 0.05                              | No Relaxation  |
| <b>Bacteriological Parameters</b> |                           |                               |                                  |                                   |  |
| 1                                 | Total Coliform(CFU/100ml) | <2                            | <2                               | <1,<10,<100                       | Shall not be<br>detectable in<br>any 100 ml.<br>sample |

Source: Project Data Baseline Ground water sampling, BDL - Below Detection Limit

57. "A performance monitoring fact sheet" is being prepared to facilitate tracking and quick reference on environmental monitoring of subproject package (**Tables 21 and 22**).

**Table 21: Performance Fact Sheet for Required Environmental Consents/Clearances of ACUDP (30<sup>th</sup> June 2023)**

| Sr. No. | Package Number  | Name of Contractor                                      | EMP Part of contract Document (Yes / No) | Environmental Consents / Clearances Required  |              |                                |                                |   |  |
|---------|---|---|--|---|--------------|--------------------------------|--------------------------------|---|--|
|         |   |   |  | Tree Cutting  | Crusher      | Batching Plant                 | Hot Mix Plant                  | Diesel Generator Set                              | Pollution Under Control (PUC) Certificates for Contractor's Vehicles |
| 1       | Upgradation of Major Roads and Post Completion Maintenance for 05 (Five) Years vide Contract Package No. 001                              | M/s. Vasishtha Constructions Private Limited Hyderabad, | Yes                                      | 157 nos of trees shall be felled at Barjala Road and payment request letter from Forest department for the same received on 09/06/2023. (Attached in the report). | Not Required | Established CTE & CTO Received | Established CTE & CTO Received | Green DG Available at Labour camp                 | PUC certificates available   |
| 2       | MBB College Lake Revitalization including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002                       | M/s. Mecgale Pneumatics Pvt. Ltd.                       | Yes                                      | 3 nos. of tree were felled after receiving the NOC from Forest department (Attached in the report)  | Not required | Till Date not required         | Till Date not required         | Green DG Available at Labour camp cum site office | PUC certificates available   |
| 3       | Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003 | M/s. Mecgale Premierworld JV                            | Yes                                      | One Number Tree cutting at <i>Astabal</i> area has been done during the previous SEMR period and Completion certificate attached in earlier SEMR                  | Not required | Till Date not required         | Till Date not required         | Till date not required                            | PUC certificates available   |



**Table 22: Performance Fact Sheet for EMP Implementation of ACUDP  
(30<sup>th</sup> June 2023)**

| Package Name  | Name of Contractor                                      | EMP Part of contract Document (Yes / No) | Contractor Social/ Environment Person | Overall Status of EMP Implementation | Field Monitoring as per EMP |                                  |                          |             |             |                               |   |               |               |                              |                           |                          |                       |
|---|---|--|---------------------------------------|--------------------------------------|-----------------------------|----------------------------------|--------------------------|-------------|-------------|-------------------------------|---|---------------|---------------|------------------------------|---------------------------|--------------------------|-----------------------|
|   |   |  |                                       |                                      | Source of Materials         | Camp Sites                       | Landscape and Aesthetics | Air Quality | Noise Level | Traffic                       | Ecological Resources – Terrestrial  | Accessibility | Water Quality | Occupational Health & safety | Community Health & safety | Socio cultural resources | Employment generation |
| Upgradation of Major Roads and Post Completion Maintenance for 05 (Five) Years vide Contract Package No. 001                              | M/s. Vasishtha Constructions Private Limited Hyderabad, | Yes                                      | Mr Sreeshanth                         | Complied                             | Complied                    | Established                      | Maintained               | Complied    | Complied    | Not required in report period | Not required  | Yes Available | Complied      | Yes Complied                 | Yes Complied              | No impact                | Yes Locals employed   |
| MBB College Lake Revitalisation including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002                       | M/s. Mecgale Pneumatics Pvt. Ltd.                       | Yes                                      | Mr. Ashfaque Alam                     | Complied                             | Complied                    | Established-improvement required | Maintained               | Complied    | Complied    | Not required in report period | Biodiversity expert mobilized and study has been conducted to assess impact | Yes Available | Complied      | yes Complied partially       | Yes Complied              | No impact                | Yes Locals employed   |
| Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003 | M/s. Mecgale Premier world JV                           | Yes                                      | Mr Rabindra Nama                      | Complied                             | Complied                    | Established                      | Maintained               | Complied    | Complied    | Not required in report period | Not required in this report period  | Yes Available | Complied      | Yes Complied                 | Yes complied              | No Impact                | Yes Locals employed   |

## VI. CONSULTATIONS AND RECOMMENDATIONS ENVIRONMENTAL CONTEXT

58. Stakeholders Consultation were arranged and conducted by ASCL on 13<sup>th</sup> 18<sup>th</sup> and 30<sup>th</sup> June 2023 for the awareness and knowledge sharing program on ADB assisted project namely Maharaja Bir Bikram (MBB) College Lake Revitalization Ujjayanta Palace and Smart Road projects. Details are available in **Appendix 8**.

59. Environment safeguard training/meeting has been arranged for PIU, PMU and Contractor's site engineer on 22/06/2023 by ASCL. Details of the training is attached as **Appendix 6**. Site visit is generally conducted by PMC's Environment specialist, Independent Environment & Safety Expert and PMU's Environment nodal officer for safeguard monitoring.

## VII. GRIEVANCE REDRESSAL

60. A project Grievance Redressal Mechanism (GRM) have been established as per Environment and Social Assessment Review Framework to receive, evaluate and facilitate the resolution of affected people's concerns, complaints, and grievances about the social and environmental performance at the level of the Project. There is no complaint received during the report period.

61. GRM and GRC details shown in **Appendix 9**.

## VIII. FINDINGS AND RECOMMENDATIONS

62. **Table 23** provides the recommended corrective action plan for compliances and target dates for compliance.

**Table 23: Corrective Action Plan**

| Non-compliance/ Partial compliance   | Action Required   | Responsible | Target Date                      | Indicator of Compliance      |
|--|---|-------------|----------------------------------|------------------------------|
| <b>Smart Road Project</b>  |   |             |                                  |                              |
| Partial use of PPEs  | Complete use of PPEs specifically face mask, shoes by all workers   | Contractor  | Immediate for smart road project | Site observation             |
| Permanent barricading and project information, caution & signage board missing | Proper hard Barricading, Information Board and Signages required at all active work sites before start of physical work | Contractor  | Immediate for smart road project | Site observation             |
| Submission of Tree cutting details for all roads – not done                    | Urgent submission of Details- tree felling permission needs to be obtained before application to Forest Dept.           | Contractor  | Immediate for smart road project | Site observations            |
| Public consultations at project site- not done on regular basis                | Ensure public consultation at the site to understand their views and any complaints regarding                           | Contractor  | Immediate for smart road project | Site observations and record |

| Non-compliance/ Partial compliance                          | Action Required   | Responsible | Target Date                                       | Indicator of Compliance     |
|---|---|-------------|---|-----------------------------|
|   | project.  |             |   |                             |
| Housekeeping at labour camp – improvement required          | Immediate improvement of housekeeping at labour camp and disposal of waste                            | Contractor  | Immediate for smart road project                  | Site observation            |
| Availability of access at excavated area- partial           | Arrangement of metal plate/ wooden platform for access of residents – before start of excavation work | Contractor  | Immediate for smart road project- to be continued | Site observation            |
| <b>MBB College Lake project</b>                             |   |             |   |                             |
| Public consultations at project site- needs to be conducted | Ensure public consultation so that interference from public may stop                                  | Contractor  | Immediate at MBB college Lake periphery area      | Site observation and record |
| Partial use of PPEs   | Complete use of PPEs specifically shoes by all workers  | Contractor  | Immediate at work area and to be continued        | Site observation            |
| <b>Ujjayanta Palace renovation project</b>                  |   |             |   |                             |
| Housekeeping at work site- needs improvement                | Immediate improvement of housekeeping at all the sites and disposal of waste                          | Contractor  | Immediate for Ujjayanta Palace work site          | Site observation            |
| Storage of materials need to be improved                    | Immediate placement of steel rod above the ground   | Contractor  | Immediate for Ujjayanta Palace work site          | Site observation            |

**APPENDIX I: Photo Illustration**

**PACKAGE- Smart Road- Upgradation of Major Roads**



**Electrical trench work in progress at Barjala Road. Use of PPEs noted**



**Work continued at VIP Road.**



**Temporary access provided for the residents**



**Work at VIP Road just started**



**Use of PPEs by workers noted. Shoe needs to be provided to all workers**



**Worker's staying arrangement at camp**



**Proper material storage**



**Emergency contact no. board at office, store and labour camp site**



**Kitchen provided with LPG Fuel**



**Filtered Drinking water provided for the workers**



**Toilet facility provided with septic tanks at labour camps**



**Toolbox Talk (TBT) being conducted regularly**



HIV AIDS awareness program conducted at Labour camp site.



Health checkup camp conducted at Labour camp site.

**PACKAGE – MBB College Lake Revitalisation**



Ongoing construction of new cafeteria in Public Zone A.



Ongoing construction of boundary wall in Public Zone A.



Barricading Provided at work site



Ongoing Pilling work use of Pontoon at Public Zone-B



First Aid box kept at Site office



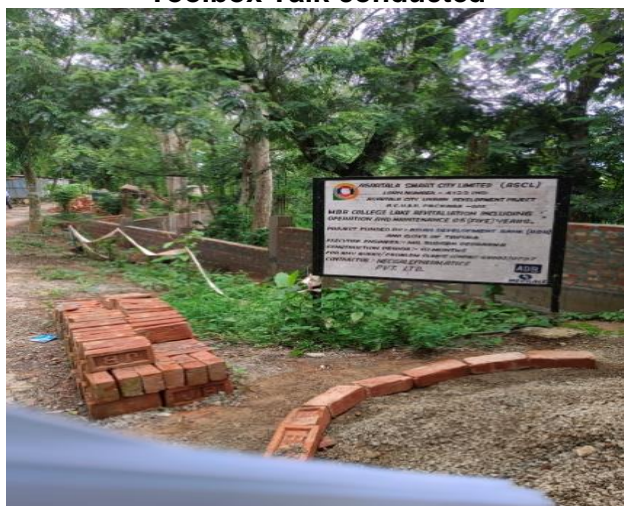
Caution Board placed at site



Toolbox Talk conducted



Health Camp organized for workers



Project information board placed at the site



Machaan construction Work in Progress

### PACKAGE –Renovation and Restoration of Ujjayanta Palace



Display of project components at Ujjayanta palace



Project display board at Ujjayanta palace



Food court 1 finishing work in progress



Astabal area finishing work under progress



Work progress for Pergola at front garden



Ujjayanta Palace central water channel





Construction is going on at parking area near Palace



Plastering work for control room almost done at front garden



Road construction completed within the palace



Shuttering work continued for bridge over the central channel



First-aid box kept at site



Work in Progress for Exhibition Plaza at Rear Garden



**Use of PPEs by workers – noted**



**Workers room**



**Material needs to be stored above the ground**



**Toolbox talk being done regularly at Ujjayanta Palace**

## APPENDIX 2: Sample Labor License and Insurance Policy

### Labour License – Upgradation of Major Roads Project- Renewed

FORM VI

[Under rule 19(1) of the Tripura Contract Labour (Regulation and Abolition) Rules, 1978; and rule 11(1) of the Tripura Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Rules,1980]

**Government of Tripura  
Office of the Licensing Officer**

**LICENCE**

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Licence No. TR/WTR/LCTR/2022/00221

Dated. 20-05-2023

1. Licence is hereby granted to VASISHTA CONSTRUCTIONS PRIVATE LIMITED M KRISHNA CHAITANYA Son/Daughter of NAGA RAJU CHAITANYA, Address: 8-2-293/82/AL/38, ROAD NO-72 BACK SIDE OF ANDHRA JYOTHI, ASHWINI-HEIGHTS, JUBLLEE HILLS, HYDERABAD, ANDHRAPRADESH-500033 under sub-section (1) of section 12 of the Contract Labour (Regulation and Abolition) Act, 1970 (37 of 1970) or sub-section (1) of section 8 of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979 (30 of 1979) subject to the conditions specified in the Annexure.
2. Name and location of work UPGRADATION OF MAJOR ROADS SMART CITY AGARTALA
3. Name of the principal employer CHIEF EXECUTIVE OFFICER, AGARTALA SMART CITY LIMITED.
4. Registration Certificate no. WEST-204 & AGR-488 and Date 18-10-2020 of the principal employer
5. The licence shall remain in force till 19-05-2024.
6. Maximum number of contract labour 100 to be employed on a single day under the licence
7. Maximum number of migrant workmen 40 to be employed on a single day under the licence

**Fee Paid**

Contract Labour Rs. 750  
ISMW Rs. 250

**Security Deposited Paid**

Contract Labour Rs.  
ISMW Rs. 15000



SPC-106-003373

Signature: Not Required

Designation: Licensing Officer

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FORM VI  
[Under rule 19(1) of the Tripura Contract Labour (Regulation and Abolition) Rules,  
1978; and rule 11(1) of the Tripura Inter-State Migrant Workmen (Regulation of  
Employment and Conditions of Service) Rules, 1980]

**Government of Tripura**  
**Office of the Licensing Officer**  
**LICENCE**  
**ANNEXURE**

The licence is subject to the following conditions:

1. The licence shall be non-transferable.
2. The number of workmen employed as contract labour/migrant workmen in the establishment shall not, on any day, exceed the maximum number specified in the licence.
3. Except as provided in the rules, the fees paid for the grant or, as the case may be, for renewal of the licence shall be non-refundable.
4. The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Scheduled Employment under the Minimum Wages Act, 1948 (11 of 1948), where applicable, and where the rates have been fixed by agreement, settlement, award, or by the appropriate Government, not less than the rates so fixed.
5. (a) In case where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work; provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner whose decision shall be final.  
(b) In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner.
6. Every contract labour/migrant worker shall be entitled to allowances, benefits, facilities etc, as prescribed in the Contract Labour (Regulation and Abolition) Act, 1970 (37 of 1970) or the Inter-State Migrant Workmen(Regulation of Employment and Conditions of Service) Act, 1979 (30 of 1979) and rules made there under.
7. In every establishment where 20 or more women are ordinarily employed as there shall be provided 2 rooms of reasonable dimension for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the crèches may be such as may be specified in this behalf by the Labour Commissioner.
8. No women shall be employed by any contractor before 6 a.m. or after 7 p.m.:

Provided that this clause shall not apply to the employment of women in pit head baths, crèches and canteens and as mid-wives and nurses in hospitals and dispensaries.

9. The licensee shall notify any change in the number of workmen or the conditions of work to

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FORM VI

[Under rule 19(1) of the Tripura Contract Labour (Regulation and Abolition) Rules, 1978; and rule 11(1) of the Tripura Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Rules,1980]

**Government of Tripura  
Office of the Licensing Officer**



**LICENCE**

the Licensing Officer.

10. A copy of the licence shall be displayed prominently at the premises where the contract work is being carried on.
11. The contractor shall comply with all the provisions of the Act and these Rules.
12. The licensee shall, within fifteen days of the commencement and completion of each contract work, submit a return to the Inspector appointed under section 28 of the Contract Labour (Regulation and Abolition) Act, 1970 (37 of 1970) intimating the actual date of the commencement or, as the case may be, completion of such contract work in

## Workman Compensation Policy: Revitalisation of MBB College Lake- Renewed

| EMPLOYEES COMPENSATION INSURANCE  |   | TATA<br>AIG<br>INSURANCE  |                 |
|---|---|---|-----------------|
| UIN: IRDAN108CP0011V01202122  |   | WITH YOU ALWAYS   |                 |
| <b>POLICY SCHEDULE</b><br>(Forming part of Policy no.5190014509 whose terms are attached herewith)  |   |   |                 |
| 1.  | <b>Intermediary/Agent name:</b>   | MAGNUM INSURANCE BROKING PVT LTD  |                 |
| 2.  | <b>Intermediary/Agent License Number:</b>   | 485   |                 |
| 3.  | <b>Intermediary/Agent Code:</b>   | 0019831001  |                 |
| 4.  | <b>Intermediary/Agent Contact No:</b>   | 8888893052  |                 |
| 5.  | <b>Policy Issuing Office:</b>   | NAGPUR  |                 |
| 6.  | <b>Insured Name</b>   | MECGALE PNEUMATICS PVT. LTD.  |                 |
| 7.  | <b>Insured Address:</b>   | N65, HINGNA INDUSTRIAL AREA, 440016, NAGPUR, MAHARASHTRA  |                 |
| 8.  | <b>Nature of Business:</b>  | CIVIL CONSTRUCTION - JOB NO. E2284 , MBB College Lake Revitalizations, Agartala, Tripura  |                 |
| 9.  | <b>GSTIN of the Insured:</b>  | 27AADCM7418C1ZN   |                 |
| 10.   | Laws: The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law: |   |                 |
|   | <b>LAW</b>  | <b>LIMIT OF INDEMNITY</b>   | <b>COVERAGE</b> |
| 10(a)   | The Employee's Compensation Act,1923 and subsequent amendments thereof prior to the date of issue of this Policy  | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.  | YES             |
| 10(b)   | The Fatal Accidents Act, 1855 and subsequent amendments thereof prior to the date of issue of this Policy   | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.  | YES             |
| 10(c)   | Common Law  | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:-<br>a) Limit Per Employee for any number of accidents during Period of Insurance Rs. _____<br>b) Limit Per Accident for any number of Employees Rs. _____<br>c) Aggregate Limit for all accidents and claims arising therefrom during the Period of Insurance Rs. 750000000 | YES             |
| <small>Tata AIG General Insurance Company Limited - Registered Office: Peninsula Business Park, Tower A, 15th Floor, G.K. Marg, Lower Parel, Mumbai - 400013, Maharashtra, India<br/>24x7 Toll Free No: 1800 266 7780 Fax: 022 6693 8170 Email: customersupport@tataaig.com Website: www.tataaig.com<br/>IRDA of India Registration No: 108 CIN:U05110MHZ000PLC128425 UAT PDF</small> |   |   |                 |

| EMPLOYEES COMPENSATION INSURANCE   |                              |  | <br>WITH YOU ALWAYS   |
|--|------------------------------|--|--|
| UIN: IRDAN108CP0011V01202122   |                              |  |  |
| POLICY SCHEDULE  |                              |  |  |
| <b>11.Period of Insurance:</b> From 00:00 Hrs of 08/04/2023 to midnight of 07/04/2024 (both days inclusive)  |                              |  |  |
| <b>12.Premium Details:</b>   |                              |  |  |
| Net Premium:   |                              |  | Rs. 25,596   |
| CGST   |                              |  | Rs. 2,304  |
| SGST   |                              |  | Rs. 2,304  |
| Stamp Duty:  |                              |  | Rs. 13   |
| Gross Premium:   |                              |  | Rs. 30,216   |
| GST Registration No.: 27AABCT3518Q1ZW , MAHARASHTRA , Service Accounting Code : 99713737   |                              |  |  |
| <b>13.Details of Employees Covered:</b>  |                              |  |  |
| Description of work done by Employees  | Declared Number of Employees | Declared Wages during the Period of Insurance  | Place/Places of Employment   |
| SKILLED  | 30                           | 4222800  | Coverage provided is for "All over India".The specific risk locations (if any) will be as per the mentioned below.<br>"MBB College Lake Revitalizations, Agartala, Tripura, 799007, DHALESWAR, TRIPURA " |
| UNSKILLED  | 35                           | 4292400  |  |
| <b>14.Subject to following clauses:</b>  |                              |  |  |
| Special conditions:  |                              |  |  |
| <ul style="list-style-type: none"> <li>* Subject additionally to the following conditions, limitations, warranties.</li> <li>* Warranted that workers involved in underground work such as mines, tunneling, etc. and/or blasting are not covered.</li> <li>* Jurisdiction - India</li> <li>* Including cover for Contractor and sub contractor workers</li> <li>* Including Medical expenses upto INR 50,000 per person</li> <li>* Loss History for last 3 years: - no</li> </ul> |                              |  |  |
| Subject to terms and Conditions of Employees Compensation insurance Policy wordings attached herewith.   |                              |  |  |
| Date: 08/4/2023  |                              | For Tata AIG General Insurance Company Ltd.  |  |
| PLACE OF SUPPLY: MAHARASHTRA   |                              | <br>AUTHORISED SIGNATORY |  |
| STATE CODE: 20   |                              |  |  |
| <small>Tata AIG General Insurance Company Limited - Registered Office: Peninsula Business Park, Tower A, 15th Floor, G.K. Marg, Lower Parel, Mumbai - 400013, Maharashtra, India<br/>                     24x7 Toll Free No: 1800 266 7780 Fax: 022 6693 8170 Email: customersupport@tataaig.com Website: www.tataaig.com<br/>                     RDA of India Registration No: 108 CIN:U85110MH2000PLC128425 UAT PDF</small>   |                              |  |  |

## Workman Compensation Policy: Renovation and Restoration of Ujjayanta Palace- Renewed

|  |   |
|--|---|
| <p><b>EMPLOYEES COMPENSATION INSURANCE</b></p> <p>UIN: IRDAN108CP0011V01202122</p> | <br><p>WITH YOU ALWAYS</p> |
|--|---|

| <b>POLICY SCHEDULE</b><br>(Forming part of Policy no.5190014508 whose terms are attached herewith) |   |   |                 |
|--|---|---|-----------------|
| <b>1.</b>  | <b>Intermediary/Agent name:</b>   | MAGNUM INSURANCE BROKING PVT LTD  |                 |
| <b>2.</b>  | <b>Intermediary/Agent License Number:</b>   | 485   |                 |
| <b>3.</b>  | <b>Intermediary/Agent Code:</b>   | 0019831001  |                 |
| <b>4.</b>  | <b>Intermediary/Agent Contact No:</b>   | 8888893052  |                 |
| <b>5.</b>  | <b>Policy Issuing Office:</b>   | NAGPUR  |                 |
| <b>6.</b>  | <b>Insured Name</b>   | MECGALE PREMIERWORLD JV (LEAD PARTNER MECGALE PNEUMATICS PVT LTD)   |                 |
| <b>7.</b>  | <b>Insured Address:</b>   | N-65, MIDC, Hingna ROAD ,industrial area, 440016, NAGPUR, MAHARASHTRA   |                 |
| <b>8.</b>  | <b>Nature of Business:</b>  | CIVIL WORK - JOB NO. E2283 Renovation and Restoration of Ujjayanta Palace Garden, Agartala  |                 |
| <b>9.</b>  | <b>GSTIN of the Insured:</b>  | 27AADCM7418C1ZN   |                 |
| <b>10.</b>   | Laws: The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law: |   |                 |
|  | <b>LAW</b>  | <b>LIMIT OF INDEMNITY</b>   | <b>COVERAGE</b> |
| 10(a)  | The Employee's Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy   | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.  | YES             |
| 10(b)  | The Fatal Accidents Act, 1855 and subsequent amendments thereof prior to the date of issue of this Policy   | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.  | YES             |
| 10(c)  | Common Law  | Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:-<br>a) Limit Per Employee for any number of accidents during Period of Insurance Rs. _____<br>b) Limit Per Accident for any number of Employees Rs. _____<br>c) Aggregate Limit for all accidents and claims arising therefrom during the Period of Insurance Rs. 750000000 | YES             |

Tata AIG General Insurance Company Limited - Registered Office: Peninsula Business Park, Tower A, 15th Floor, G.K. Marg, Lower Parel, Mumbai - 400013, Maharashtra, India  
24x7 Toll Free No: 1800 266 7780 Fax: 022 6693 8170 Email: customersupport@tataaig.com Website: www.tataaig.com  
IRDA of India Registration No: 108 CIN:U85110MH2000PLC128425 UAT PDF



|   |  |
|---|--|
| <b>EMPLOYEES COMPENSATION INSURANCE</b><br>UIN: IRDAN108CP0011V01202122 | <br>WITH YOU ALWAYS |
| <b>POLICY SCHEDULE</b>  |  |

**11.Period of Insurance:** From 00:00 Hrs of 08/04/2023 to midnight of 07/04/2024 (both days inclusive)

**12.Premium Details:**

|                |            |
|----------------|------------|
| Net Premium:   | Rs. 18,126 |
| CGST           | Rs. 1,631  |
| SGST           | Rs. 1,631  |
| Stamp Duty:    | Rs. 9      |
| Gross Premium: | Rs. 21,398 |

GST Registration No.: 27AABCT3518Q1ZW , MAHARASHTRA , Service Accounting Code : 99713737

**13.Details of Employees Covered:**

| Description of work done by Employees | Declared Number of Employees | Declared Wages during the Period of Insurance | Place/Places of Employment   |
|---------------------------------------|------------------------------|---|--|
| skilled                               | 20                           | 2815200                                       | Coverage provided is for "All over India".The specific risk locations (if any) will be as per the mentioned below. |
| unskilled                             | 30                           | 3153600                                       | "Renovation and Restoration of Ujjayanta Palace Garden, , Agartala, Tripura , 799001, WEST TRIPURA, TRIPURA "      |

**14.Subject to following clauses:**

Special conditions:

- \* Subject additionally to the following conditions, limitations, warranties.
- \* Warranted that workers involved in underground work such as mines, tunneling, etc. and/or blasting are not covered.
- \* Jurisdiction - India
- \* Including cover for Contractor and sub contractor workers
- \* Including Medical expenses upto INR 50,000 per person
- \* Loss History for last 3 years: - no

Subject to terms and Conditions of Employees Compensation insurance Policy wordings attached herewith.

Date: 08/4/2023

PLACE OF SUPPLY: MAHARASHTRA

STATE CODE: 20

For Tata AIG General Insurance Company Ltd.



AUTHORISED SIGNATORY

## APPENDIX 3: NOC to abstract ground water for Smart Roads



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

## NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

|                                   |   |        |              |
|-----------------------------------|---|--------|--------------|
| Project Name:                     | Up-gradation Of Major Roads Agartala Smart City Adb Project   |        |              |
| Project Address:                  | Chandmari, Agartala   |        |              |
| Village:                          | Purba Noagoan   | Block: | Old Agartala |
| District:                         | West Tripura  | State: | Tripura      |
| Pin Code:                         |   |        |              |
| Communication Address:            | Vasishtha Constructions Pvt Ltd., Chandmari, Chandantilla, Opposite Of Setuk, Kunjaban, Agartala,, West Tripura, Tripura - 799009 |        |              |
| Address of CGWB Regional Office : | Central Ground Water Board North Eastern Region, Betkuchi, Opposite Isbt., Nh-37, Guwahati,, Kamrup Metro, Assam - 781005         |        |              |

|  |                              |                             |                      |                      |                      |                     |                      |     |      |    |    |     |
|--|------------------------------|-----------------------------|----------------------|----------------------|----------------------|---------------------|----------------------|-----|------|----|----|-----|
| 1. NOC No.:  | CGWA/NOC/INF/ORIG/2023/18251 | 2. Date of Issuance         | 18/04/2023           |                      |                      |                     |                      |     |      |    |    |     |
| 3. Application No.:  | 21-4/188/TR/INF/2023         | 4. Category:<br>(GWRE 2020) | Safe                 |                      |                      |                     |                      |     |      |    |    |     |
| 5. Project Status:   | New Project                  | 6. NOC Type:                | New                  |                      |                      |                     |                      |     |      |    |    |     |
| 7. Valid from:   | 18/04/2023                   | 8. Valid up to:             | 17/04/2028           |                      |                      |                     |                      |     |      |    |    |     |
| 9. Ground Water Abstraction Permitted:   |                              |                             |                      |                      |                      |                     |                      |     |      |    |    |     |
| Fresh Water  |                              | Saline Water                |                      | Dewatering           |                      | Total               |                      |     |      |    |    |     |
| m <sup>3</sup> /day  | m <sup>3</sup> /year         | m <sup>3</sup> /day         | m <sup>3</sup> /year | m <sup>3</sup> /day  | m <sup>3</sup> /year | m <sup>3</sup> /day | m <sup>3</sup> /year |     |      |    |    |     |
| 5.00   | 1825.00                      |                             |                      |                      |                      |                     |                      |     |      |    |    |     |
| 10. Details of ground water abstraction /Dewatering structures                               |                              |                             |                      | Total Proposed No.:1 |                      |                     |                      |     |      |    |    |     |
| Total Existing No.:0   |                              |                             |                      | Total Proposed No.:1 |                      |                     |                      |     |      |    |    |     |
|  | DW                           | DCB                         | BW                   | TW                   | MP                   | MPu                 | DW                   | DCB | BW   | TW | MP | MPu |
| Abstraction Structure*   | 0                            | 0                           | 0                    | 0                    | 0                    | 0                   | 0                    | 0   | 1    | 0  | 0  | 0   |
| *DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps |                              |                             |                      |                      |                      |                     |                      |     |      |    |    |     |
| 11. Ground Water Abstraction/Restoration Charges paid (Rs.):                                 |                              |                             |                      |                      |                      |                     |                      |     | 0.00 |    |    |     |

(Compliance Conditions given overleaf)

This is an auto generated document &amp; need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jannagar House, Mansingh Road, New Delhi-110011  
Phone: (011) 23383561 Fax: 23382051, 23386743  
Website: cgwa-noc.gov.in

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SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

**Mandatory conditions:**

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup> /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises falling which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is/are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m<sup>3</sup>/day, the firm/entirety shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011  
Phone: (011) 23383561 Fax: 23382051, 23386743  
Website: [cgwa-noc.gov.in](http://cgwa-noc.gov.in)

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SAVE WATER - SAVE LIFE

APPENDIX 4: Status of CTE & CTO & Consent to Operate for Solid Waste  
Management Site

## Consent to Establish for Hot Mix Plant &amp; Ready-mix plant for Smart Road



## TRIPURA STATE POLLUTION CONTROL BOARD

PARIVESH BHAWAN, Pandit Nehru Complex, Gorkhabasti,  
Kunjaban, Agartala - 799 006, West Tripura.

Certificate Sl. No.

13554

No.F.17(10)/TSPCB/W/Hot Mix Plant /(M-Or.)/7379/ 711- 16

Date : 19 / 05 / 2022

## CERTIFICATE FOR CONSENT TO ESTABLISH

Under Section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 and  
Under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981Reference : i) Your Application No.157750  
ii) Our NOC Register Sl.12864dated: 10-05-2022  
for : Fresh

Capital Investment : Rs. 307.4 Lakhs

Production Capacity : Hot Mix, Bitumen/Wmm/  
Batching : 250 MT/Day

Type : Composite Unit (Hot Mix Plant, Ready Mix Plant)

Category : Orange

With reference to the above Application, a provisional Consent to Establish Certificate (Fresh) is hereby issued in favour of M/s. Vasishta Constructions Pvt. Ltd., Mr. B Srinivas Reddy, Rubber Board, Chandmari, Agartala, Tripura (W) to undertake construction of rooms or shed or building and to set up/install necessary plants and equipments including pollution control device as proposed in the project report submitted with the consent application so as to enable emission/discharge from the plant /unit as per section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 subject to observance of other codal formalities of the Govt. of India/ Govt. of Tripura/ District Administration/ Agartala Municipal Corporation or concerned Municipal Council or concerned Nagar Panchayat (whichever is applicable)/ Health Department/ Industries & Commerce Department, and subject to observance of the following terms & conditions

- The unit should take necessary measures to combat air pollution.
- Under no circumstances bitumen shall be taken out to burn.
- The unit should take necessary measures to combat noise pollution so that that the noise level of the unit. Should not exceed the prescribed standard limit mentioned as under:

Noise level not to exceed

| Day Time<br>(6.00am to 10.00 pm) | Night Time<br>(10.00pm to 6.00 am) |
|----------------------------------|------------------------------------|
| 55dB                             | 45dB                               |

- Safe disposal of saw dust should be ensured.
- Due care and maintenance of the DG sets should be taken in the following manner so that Pollution level can be minimized:
  - The pre cleaner should be inspected for dirt/dust accumulation and it should be cleaned once in a week.
  - The vacuum indicator should be checked for red band and the outer element should be cleaned only by compressed air, with pressure not more than 60 psi, if required.
  - The water and sediment from water separator and fuel tank should be drained before starting.
  - Coolant condition should be maintained as per specifications.
  - Lube oil pressure should be checked every morning before starting.
  - Engine log book of previous shift should be checked and then reset, if required.
  - The engine should be cleaned externally every day.
  - Leakage of engine oil, coolant and fuel should be checked before start up and engine oil should be topped, if required.
  - The engine should be primed before starting.
  - The battery condition and electrical connection should be checked before starting as per O & M Manual.

Contd... p/2



[2]

- xi) The engine should be started and operated without load/idle for 2-3 minutes for any leakage or abnormal sound. Corrections should be made if necessary.
- (xii) The engine should be started on electrical mode and proper functioning of safety control should be checked.
- (xiii) The engine should be idled for three minutes before shut off.
- (xiv) Recommended schedule maintenance checks should be carried out.
- (xv) Only genuine parts should be used while replacing them during break down or preventive maintenance.
- (xvi) The Noise Level of DG set should be maintained as under:

| <u>Noise level not to exceed</u> |                      |
|----------------------------------|----------------------|
| Day Time                         | Night Time           |
| (6.00am to 10.00 pm)             | (10.00pm to 6.00 am) |
| 55dB                             | 45dB                 |

- F. The unit shall have to be done in compliance with the guideline of TSPCB. The said unit may be treated as composite Project.
- g. The unit shall take adequate measures to control dust pollution & it should be checked on regular basis.
- h. The unit shall not permitted to up-rooted of mature plants without the permission of the Forest departments.
- i. Banning order regarding Plastic Carry Bags issued vide Notification No.F.8(30)/DSTE/ ENV/pt-II/1679-97 dated 10.03.2015 & No.F.8(30)/DSTE/ENV/pt-II/1984-2003 dated 19.03.2015 should be strictly adhered to.
- j. Public liability insurance coverage shall have to be provided to the workers of the unit.
- k. Compliance report may be submitted to the TSPCB once in a year.
- l. The unit will have to follow other norms & standards issued by TSPCB from time to time.
- m. A copy of the Consent Certificate should be displayed in the office of the unit.
- n. Violation of any of the above conditions could lead to withdrawal of the certificate/or levying Environmental Compensation as per the Rules.

This Certificate is valid upto 18.05.2024. Application for Consent to Operate Certificate shall have to be made before starting operation.

*W 19/05/2024*  
(Sushanta Das)  
Head of C.M. Division  
Tripura State Pollution Control Board

To  
Mr. B Srinivas Reddy, Proprietor  
M/s. Vasishta Constructions Pvt. Ltd.  
Rubber Board, Chandmari, Agartala, Tripura (W)

## Copy to :

- 1) District Magistrate, Tripura (W)
- 2) Director, Industries & Commerce, Tripura.
- 3) SDM, Sadar Tripura(W).
- 4) Municipal Commissioner, Agartala Municipal Corporation, Tripura (W).
- 5) District Scientific Officer, DST&E, Tripura (W).

*W 19/05/2024*  
Head of C.M. Division  
Tripura State Pollution Control Board

**NB: This Certificate permits the Proprietor/Occupier/Applicants to Establish the unit only complying with the terms & conditions and in no way it bears the permission to Operate the Unit/Industry, for which a separate application has to be submitted.**

Consent to Operate for hot mix plant and ready-mix cement concrete plant



**TRIPURA STATE POLLUTION CONTROL BOARD**

PARIVESH BHAWAN, Pandit Nehru Complex, Gorkhabasti,  
Kunjaban, Agartala - 799 006, West Tripura.

No.F.17(10)/TSPCB/W/Hot Mix Plant/(M-Or.)/7379/6799-99 Date : 28/01/2023

Certificate Sl. No.

14802

**CERTIFICATE FOR CONSENT TO OPERATE**

Under Section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 and  
Under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

Reference : i) Your Application No. 202060 dated: 10-02-2023  
ii) Our NOC Register Sl.13592 for : Extension of validity

Capital Investment : Rs. 307.4 Lakhs Production Capacity : Hot Mix, Ready mix cement  
concrete : 250 MT/Day

Type : Composite Unit (Hot Mix Plant, Ready Mix Plant) Category : Orange

With reference to the above Application, a provisional Consent to Operate Certificate (Extension of validity) is hereby issued in favour of **M/s. Vasishtha Constructions Pvt. Ltd., Mr. B Srinivas Reddy, Rubber Board, Chandmari, Agartala, Tripura (W)** to discharge its industrial and other effluents arising out of their premises into a stream/ well/ land as per section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 and to make emission from the plant /unit as per Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 situated at **Rubber Board, Chandmari, Agartala, Tripura (W)** subject to observance of other codal formalities of the Govt. of India/Govt. of Tripura/District Administration/ Agartala Municipal Corporation or concerned Nagar Panchayat or concerned Panchayat (whichever is applicable)/ Health Department/Industries & Commerce Department and subject to observance of the following terms & conditions:

- The unit should take necessary measures to combat air pollution.
- Under no circumstances bitumen shall be taken out to burn.
- The unit should take necessary measures to combat noise pollution so that the noise level of the unit. Should not exceed the prescribed standard limit mentioned as under:

Noise level not to exceed

| Day Time             | Night Time           |
|----------------------|----------------------|
| (6.00am to 10.00 pm) | (10.00pm to 6.00 am) |
| 55dB                 | 45dB                 |

- Safe disposal of saw dust should be ensured.
- Due care and maintenance of the DG sets should be taken in the following manner so that Pollution level can be minimized:
  - The pre cleaner should be inspected for dirt/dust accumulation and it should be cleaned once in a week.
  - The vacuum indicator should be checked for red band and the outer element should be cleaned only by compressed air, with pressure not more than 60 psi, if required.
  - The water and sediment from water separator and fuel tank should be drained before starting.
  - Coolant condition should be maintained as per specifications.
  - Lube oil pressure should be checked every morning before starting.
  - Engine log book of previous shift should be checked and then reset, if required.
  - The engine should be cleaned externally every day.
  - Leakage of engine oil, coolant and fuel should be checked before start up and engine oil should be topped, if required.
  - The engine should be primed before starting.
  - The battery condition and electrical connection should be checked before starting as per O & M Manual.

*Amrendy Pandey*

Contd...p/2

14801

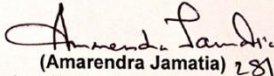
[2]

- xi) The engine should be started and operated without load/idle for 2-3 minutes for any leakage or abnormal sound. Corrections should be made if necessary.
- (xii) The engine should be started on electrical mode and proper functioning of safety control should be checked.
- (xiii) The engine should be idled for three minutes before shut off.
- (xiv) Recommended schedule maintenance checks should be carried out.
- (xv) Only genuine parts should be used while replacing them during break down or preventive maintenance.
- (xvi) The Noise Level of DG set should be maintained as under:

| Noise level not to exceed |                      |
|---------------------------|----------------------|
| Day Time                  | Night Time           |
| (6.00am to 10.00 pm)      | (10.00pm to 6.00 am) |
| 55dB                      | 45dB                 |

- F. The unit shall have to be done in compliance with the guideline of TSPCB. The said unit may be Treated as composite Project.
- g. The unit shall take adequate measures to control dust pollution & it should be checked on regular basis.
- h. The unit shall not permitted to up-rooted of mature plants without the permission of the Forest departments.
- i. Banning order regarding identified plastic carry bags & other single use plastic item issued vide Notification No.F.8 (30)/DSTE/ENV/pt-v/5612-30 dated 03.08.2022 should be strictly adhered to.
- j. Public liability insurance coverage shall have to be provided to the workers of the unit.
- k. Compliance report may be submitted to the TSPCB once in a year.
- l. The unit will have to follow other norms & standards issued by TSPCB from time to time.
- n. Violation of any of the above conditions could lead to withdrawal of the certificate/or levying Environmental Compensation as per the Rules.

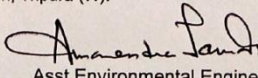
This Certificate is valid upto 27.04.2033. Application for extension of validity of Consent Certificate shall have to be made one month before the date of expiry of validity of this Certificate.

  
(Amarendra Jamatia) 28/04/2023  
Asst Environmental Engineer  
Tripura State Pollution Control Board

To  
Mr. B Srinivas Reddy  
M/s. Vasishta Constructions Pvt. Ltd.  
Rubber Board, Chandmari, Agartala, Tripura (W)

Copy to :

- 1) District Magistrate, Tripura (W)
- 2) Director, Industries & Commerce, Tripura.
- 3) SDM, Sadar Tripura(W).
- 4) Municipal Commissioner, Agartala Municipal Corporation, Tripura (W).
- 5) District Scientific Officer, DST&E, Tripura (W).

  
Asst Environmental Engineer  
Tripura State Pollution Control Board

**Consent to Operate for Solid Waste Management Site at DC Nagar Lunga site,  
Agartala**

Certificate Sl. No. <sup>11568</sup>

**TRIPURA STATE POLLUTION CONTROL BOARD**  
PARIVESH BHAWAN, Pandit Nehru Complex, Gorkhabasti,  
Kunjaban, Agartala - 799 006, West Tripura.

No.F.17(10)/TSPCB/W/Solid Waste(M-Red)/5363/ 2961-65 Date: 18/02/2020

**CERTIFICATE FOR CONSENT TO ESTABLISH & OPERATE**  
Under Section 25/26 of Water (Prevention and Control of Pollution) Act, 1974 and  
Under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

Reference : i) Your Application No.406 Dated :05-12-2019  
ii) Our NOC Register Sl.No.11678 For: Fresh Consent

Capital Investment : Rs. 16.50 Cr. Production Capacity : Compost : 7500 MT  
Type : Common Solid waste processing plant Category: Red

With reference to the above Application, a provisional Consent to Establish & Operate Certificate is hereby issued in favour Mechanical Division, The Executive Engineer (Mech.), Agartala Municipal Corporation, Agartala, Tripura (West) discharge its industrial and other effluents arising out of their premises into a stream/ well/ land as per section 25/26 of Water (Prevention and Control of Pollution) Act,1974 and to make emission from the plant /unit as per Section 21 of the Air (Prevention and Control of Pollution) Act,1981 situated at Agartala, Tripura (West) to observance of other codal formalities of the Govt. of India/Govt. of Tripura/District Administration/ Agartala Municipal Corporation or concerned Municipal Council or concerned Nagar Panchayat (whichever is applicable)/ Health Department/Industries & Commerce Department and subject to observance of the terms & conditions stated at Annexure-I

The Tripura State Pollution Control Board may, at any time, revoke any of the conditions applicable under the Consent to Operate and shall communicate the same in writing.

AMC shall have to obtain EC from SEIAA/EIAA for Operation of Solid Waste processing facility under EIA Notification, 2006 as amended to date.

This Certificate is valid 17.01.2025. Application for extension of validity of Consent Certificate shall have to be made one month before the date of expiry of validity of this Certificate.

*Asst*  
*10/2/20*  
(Aparajita Das)  
Asst. Environmental Engineer  
Tripura State Pollution Control Board

*To*  
The Executive Engineer(Mech.)  
Mechanical Division  
Agartala Municipal Corporation  
Agartala, Tripura West

Copy to the:-


1. Municipal Commissioner, Agartala Municipal Corporation for kind information.
2. District Magistrate & Collector, West Tripura District for kind information.
3. Director, Industries & Commerce, Department, Tripura for kind information.
4. Sub-Divisional Magistrate, Mohanpur for kind information.

Asst. Environmental Engineer  
Tripura State Pollution Control Board



**NOC from Agartala Municipal Corporation (AMC) for disposal of Construction and Demolition (C & D) waste, excavated earth and drain silt**

*-TL PMC  
-EE (RP/SD)  
(RA) 04/07/19*

  
**AGARTALA MUNICIPAL CORPORATION**  
**AGARTALA**

No.F.02/SE/AMC/2013/ 146-147 Dated, Agartala the 4<sup>th</sup> July, 2019

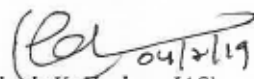
To  
✓ The Chief Executive Officer,  
Agartala Smart City Ltd.,  
Agartala.

**Subject :** NOC for Dumping / Storing Construction and Demolition waste and Drain Silt in DC Nagar Lunga SWM Site and Hapania Site for future reuse - Smart Roads Project under the Agartala Smart City Limited Phase-2.

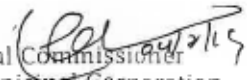
**Ref. No.** F. No. 4(25)/ (ASCL)/2018/1562-63 Dated 28-06-2019

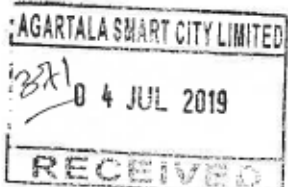
Sir,  
With reference to above, this is to inform you that Agartala Municipal Corporation does not have any objection in utilizing the available land of DC Nagar SWM site and the old dumping site of Hapania for storing and dumping of demolition waste, drain silt and excavated earth.

This NOC is hereby issued on condition that the daily activities of SWM works will not be disturbed by such storing and dumping.

Yours faithfully,  
  
(Dr. Shailesh K. Yadav, IAS)  
Municipal Commissioner  
Agartala Municipal Corporation

**Copy to :**  
1) The Team Leader, PMC for information & necessary action.

  
Municipal Commissioner  
Agartala Municipal Corporation

  
AGARTALA SMART CITY LIMITED  
04 JUL 2019  
RECEIVED

## APPENDIX 5: Site verification and NOC for Tree Felling

### NOC for Tree Cutting at MBB College Lake

**GOVERNMENT OF TRIPURA**  
**OFFICE OF THE SUB-DIVISIONAL FOREST OFFICER**  
**SADAR FOREST SUB-DIVISION, AGARTALA**  
**PO – AGARTALA COLLEGE, PIN – 799004.**

**Sub:** - Application of Md. Sajad P, IAS, Cheif Executive Officer, Agartala Smart City Limited, for cutting of 03 (three) nos trees located at just opposite the three ponds lake towards MBB Collage road, Agartala West Tripura, area.

**Ref:** - No.F.31/SDR/For/2022-23/2290-91, Dt. 06.02.2023, of Range Officer, Sadar Forest Range.

**OFFICE ORDER**

Allowed to extract of 03 (three) nos trees located at just opposite the three ponds lake towards MBB Collage road, Agartala West Tripura, area, under Sadar Range, through departmental operation. The extraction order has issued after conducting the joint enquiry by the officials of Forest Department and Sri. Rupak Debnath, Junior Engineer, Agartala Smart City Limited, in reference to the joint inquiry report No.F.31/SDR/For/2022-23/2290-91, Dt. 06.02.2023, of Range Officer, Sadar Range.

The expenditure on account of operation of the said trees will have to be borne by the user agency. While operating the marking Rules should be strictly observed.

*(Handwritten signature)*  
(K. Debbarma, IFS)  
Sub-Divisional Forest Officer,  
Sadar Forest Sub-Division.

No.F.6-5/Deptt.Oprtn/Timber/SSD/Vol-III/2022-23/12532-36 Dated, 20/02/2023.

**Copy to:-**

1. The District Forest Officer, West Forest District, Agartala for favour of kind information.
2. Cheif Executive Officer, Agartala Smart City Limited, Agartala West Tripura, for favour of kind information.
3. The Range Officer, Sadar Range for information and necessary action

*(Handwritten signature)*  
Sub-Divisional Forest Officer,  
Sadar Forest Sub-Division.

**Application from DFO for fund requisition for extraction of trees at Barjala Road**

No.F.3-113/WFD/Dev/Departmental Operation/2020-21/ 1082-84  
GOVERNMENT OF TRIPURA  
OFFICE OF THE DISTRICT FOREST OFFICER  
WEST FOREST DISTRICT, TRIPURA

Dated, 09<sup>th</sup> June, 2023

To  
The Chief Executive Officer,  
Agartala Smart City Ltd.

**Sub:-** Request for removal/ uprooting of trees from Barjala road - regarding

**Ref:-** No.F.4(98)/ASCL/2020/7830-38 Dated,08/05/2023 of the CEO, ASCL.

Sir,

With reference to the subject cited above, I am enclosing herewith the estimate proposal along with fund requisition for extraction of trees from Barjala Road "Panchabati to Durga Chowmuhani" in connection with upgradation of Major roads along with post completion maintenance for (05) five years as submitted by the Range Officer, Mohanpur Range vide his No.F.5/MNPR/Deptt. Oprtn/2021-22/137-38 Dated,30/05/2023 (copy enclosed) to make payment for an amount of **Rs.11,02,500.00** (Rupees eleven lakh two thousand & five hundred) only in favour of **District Forest Officer, West Tripura** with bank details.

In view of the above, you are requested to make payment in favour of **District Forest Officer, West Tripura** as per requirement to as follows bank details for further course of action from this end:


|                     |                        |
|---------------------|------------------------|
| Name of Bank        | <b>HDFC</b>            |
| Name of Bank Branch | <b>Agartala Branch</b> |
| SB Account no       | <b>50100623313674</b>  |
| IFSC CODE           | <b>HDFC0000884</b>     |


This is for favour of kind information & necessary action immediately.

Encl: Copy of estimates etc..

Copy to:-

1. Sub-Divisional Forest Officer, Sadar Forest Sub-Division, Agartala for information.
2. The Range Officer, Mohanpur Range for information.

Yours faithfully  
  
(Jayakrishnan VK, IFS)  
District Forest Officer  
West Tripura

  
District Forest Officer  
West Tripura

**Letter to Forest Department - Requesting Information on MBB College Lake Wet Land Status**

**AGARTALA SMART CITY LIMITED**  
(CIN: U74999TR2016SGC013499)  
**AGARTALA MUNICIPAL CORPORATION, 5TH FLOOR, CITY CENTRE, PARADISE  
CHOUMUHANI, AGARTALA, WEST TRIPURA- 799001**

**No. F. No. 4(25)/(ASCL)/2018/1560-61** **Date: 28-06-2019.**

To,  
The Sub-divisional Forest Officer,  
Forest Office,  
Agartala

Sir,


Sub: Request for information on MBB Lake Wetland Status – developed under Agartala Smart City Limited -reg.

With reference to the above subject, MBB Lake is being revitalized and transformed into an active recreational and community area at the same time retaining prevailing ambience. The lake is proposed to be developed considering the guidelines of Department of Science, Technology and Environment for Protection and Preservations of Lakes and water bodies vide its letter no. No.F.11(35)/DSTE/CC/Pt-1/ 3813 - 24 dated 24-05-2017.

As per the Tripura Forests Department, Government of Tripura website, the MBB lake is identified as wetland important from the point of view of Bio-diversity conservation and centers of socio-economic values. The lake is ranked 3 and categorized as medium use.

In the above circumstances, we like to understand any clearance or permission requirement from the Forest Department and/ or Wetland Authority to take up the proposed developmental works.

Kindly advise on the same.

Yours faithfully,  
  
**(Dr. Shailesh K. Yadav, IAS)**  
**Chief Executive Officer**  
**Agartala Smart City Limited**

**Copy to:** Team Leader, PMC for information & necessary action.

No.F.3-31/Bio-Diversity/Dev/SSD/2020-21/ ~~2755-56~~  
**Government of Tripura**  
**Office of the Sub-Divisional Forest Officer**  
**Sadar Forest Sub-Division**  
Agartala, West Tripura  
Mail: sdfosadar@gmail.com

Dated, 17/06/2022

To  
**The District Forest Officer**  
West Tripura Forest District  
Agartala, Tripura

Sub : Request for information on MBB lake wetland status – developed under Agartala Smart City Ltd.-  
regarding.

Ref : No. F. No. 4(25)/ABCL/2018/1560-61 dated,28.06.2019 of the CEO, Agartala Smart City.

Sir,

With reference to the above may I have the honour to inform you that the CEO, Agartala Smart City had made a communication with this office vide the above referred letter where he wanted to know whether any clearance from Forest Department is required to take up any developmental activities in the lake to revitalize and transform the said lake in to an active recreational and community area retaining its prevailing ambience under the Agartala Smart City Project. as the said lake is already identified as a wetland, important from biodiversity conservation point of view and centre for Socio-economic views. The lake is ranked 3 and categorized as medium use. In this regard he has also mentioned that all such developmental activities will be taken up in conformity with the guidelines of Department of Science and Technology for protection and preservation of lakes and water bodies vide it's letter no.F.11(35) DSTE/CC/Pt.-1/3813 dated.24.06.2017.

Therefore I am forwarding the above mentioned letter of the CEO, Agartala, Smart City to your honour for your valuable suggestion and guidance in this regard to send a comprehensive reply to the CEO, Agartala Smart City.

This is for favour of your kind information and doing the needful please.

Yours faithfully,-

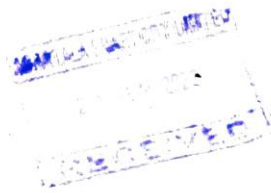
Encl: 01 sheet.

(P. Chakraborty, TFS)  
Sub-Divisional Forest Officer  
Sadar Forest Sub-Division

Copy to:

The Chief Executive Officer, Agartala Smart City for favour of kind information.

Sub-Divisional Forest Officer  
Sadar Forest Sub-Division





## TRIPURA STATE POLLUTION CONTROL BOARD

(A Statutory Organisation Under Government of Tripura)  
Department of Science Technology & Environment

No.F.19(74)/TSPCB/MS/ 8354-58

October 27, 2022

To  
The Chief Executive Officer  
Agartala Smart City Limited

**Sub: Request for information on MBB College Lake Wetland status-developed under Agartala Smart City Limited-reg.**

Sir,

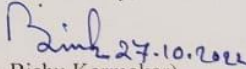
A letter has been received from the office of the Principal Chief Conservator of Forests, Government of Tripura alongwith a letter of Agartala Smart City Limited dated 01.09.2022 regarding the information on MBB College Lake Wetland status-developed under Agartala Smart City Limited.

2. I would like to inform that a Statutory Guidelines has been notified vide Notification No.F.11(35)/DSTE/CC/Part-I/3813-24 dated 25.05.2017 for protection and preservation of lakes, ponds and water bodies in the State of Tripura by the Department of Science, Technology & Environment, Government of Tripura. A Copy of the said guideline is attached herewith.

3. The protection, rejuvenation and beautification activities of the MBB College Lake may be carried out following the Statutory Guidelines for Protection and Preservation of lakes, ponds and water bodies.

This is for your information.

Yours faithfully,

  
(Dr. Bishu Karmakar)  
Member Secretary

**Copy to.**

- i) The PPS to the Principal Secretary, Science, Technology & Environment, Government of Tripura for kind information of the Principal Secretary.
- ii) The PA to the Chairman, Tripura State Pollution Control Board for kind information of the Chairman.
- iii) The PS to the Chief Wild Life Warden, Tripura for kind information of the Chief Wild Life Warden.
- iv) The Director, Science, Technology & Environment, Government of Tripura for kind information.

**Address :**  
**PARIVESH BHAWAN**  
Pandit Nehru Complex, Gorkhabasti,  
PO : Kunjaban, Agartala, West Tripura - 799 006

**website :**  
[www.tspcb.tripura.gov.in](http://www.tspcb.tripura.gov.in) / [trpervis.nic.in](http://trpervis.nic.in)  
**e-mail :**  
[tripuraspcb@gmail.com](mailto:tripuraspcb@gmail.com) / [hoospcb-tr@gov.in](mailto:hoospcb-tr@gov.in)

**Contact :**  
Chairman : 0381 - 2322462  
Member Secretary : 0381 - 2325421  
Head of Office : 0381 - 2322455  
OCMS Help Desk : 0381 - 2322702

**Draft Lake Conservation Guideline by Govt. of Tripura, DST**

No.F.11(35)/DSTE/CC/Pt-I/3813-24  
GOVERNMENT OF TRIPURA  
DEPARTMENT OF SCIENCE, TECHNOLOGY & ENVIRONMENT

\*\*\*\*\*

Dated, Agartala, the 24/05/2017

**NOTIFICATION**

**Sub:- Statutory Guidelines for Protection and Preservation of lakes, ponds and water bodies in the State of Tripura.**

In pursuance of the Judgment & Order dated 16.08.2016 of the Hon'ble High Court of Tripura in WP(C)(PIL) No.2 of 2014 in the matter of Shri Bibash Ch.Saha Vs. State of Tripura & Ors., the Government had constituted a committee under the Chairmanship of the Principal Chief Conservator of Forests, Govt. of Tripura in October, 2016, for framing the guidelines taking into account the suggestions/recommendations of the experts in the field to protect and preserve the ecosystem and environmental balance of all the water bodies in the State. A copy of the Memorandum dated 20<sup>th</sup> October, 2016 vide which the above Committee was constituted is at **Annexure I**. The Committee submitted a report before the State Government on 27<sup>th</sup> April, 2016.

2. After careful consideration of the recommendations of the Committee and in exercise of the powers conferred under section 24 of the Water (Prevention & Control of Pollution) Act,1974, and Section 5 of the Environment (Protection) Act, 1986, it is hereby decided that all Local Bodies [like - Municipal Corporations, Municipal Councils, Nagar Panchayat, Panchayat Samities, Block Advisory Committees, Zilla Parishad etc.], PWD (R&B), PWD(Water Resource), PWD(Minor Irrigation), Forest Department, Fishery Department, District/Sub-Division/Block level Administrations, Wetland Management Authority of Tripura, Committees of Religious Organization like Matarbari Temple/Kasba Kalibari Temple/Chaturdas Devata Bari Temple etc. and industrial unit or any individual, being owner of a pond, should observe the following guidelines for 'determination of the embankments of water bodies' regarding protection and preservation of ecosystem and environmental balance of water bodies:-

i. For the existing water bodies which have permanent structures (permanent structure means brick wall, RCC structures, concrete wall etc.), proper provision for free movement of the aquatic life and water and the natural slope may be made by using eco-friendly materials/interventions like earth mounding geo-textiles, bamboo, grass etc., wherever feasible and applicable. However, adequate care may be taken to ensure that nearby habitation/structures are also protected from erosion.

*cm*

1 | Page

- ii. Disposal of any waste materials (includes solid wastes, bio-medical waste, e-waste, hazardous waste, construction and demolition waste and sewage and effluent as defined under concerned rules) in the water bodies should be strictly prohibited.
- iii. Illumination by using powerful lights (like flood lights, street lights, search lights) should be avoided. Pedestal lights or duly covered tube lights may be installed for illumination of foot-paths, walking tracks etc. It should be ensured that nearby trees are not illuminated. These are to be completed within next 6 months.
- iv. For monitoring of the water bodies, a committee consisting of representatives of the concerned department (owner of the water bodies), Forest Department, Fishery Department, Tripura State Pollution Control Board (TSPCB) and experts from Fishery College should be formed. The committees should periodically check the water quality with the help of TSPCB and take necessary action for maintaining the ecosystem of the water body. The Committee to be constituted within next 1 month.
- v. A committee at State level with concerned stakeholders for monitoring and implementation of these guidelines should be formed. The Committee to be constituted within next 1 month.
- vi. The TSPCB, with the help of concerned stakeholders should take up large scale awareness programmes about various acts and rules about the pollution control and ecological well-being of water bodies in the State. This should be an ongoing activity of the board.

**Note :-** Where Bamboos, Sal, eucalyptus or other eco-friendly items for piling is undertaken it should be kept into consideration that no cut-drum sheets or tin plates are fitted with the bullahs as these tin-sheets separate the land and water. This separation of land and water is very unhygienic for the water body and the surrounding areas according to scientists.

**3.** Authorities of all Local Bodies [like - Municipal Corporations, Municipal Councils, Nagai Panchayat, Panchayat Samities, Block Advisory Committees, Zilla Parishad etc.] PWD (R&B), PWD(Water Resource), PWD(Minor Irrigation), Forest Department, Fishery Department, Wetland Management Authority of Tripura, Committee of Religious Organization like Matarbari Temple/Kasba Kalibari Temple/Chaturdas Devata Bari Temple etc, President of different Chamber of Commerce and Industries, are requested to circulate the aforementioned statutory guidelines through their officials for wide compliance.

**4.** In case of violation of the aforementioned guidelines, the District Magistrate and Collector or the Chairman or the Member Secretary of the Tripura State Pollution Control Board or any other officer authorized in this behalf by it, shall in accordance with the procedure and powers conferred under Section 19 of the



Environment (Protection) Act, 1986 and/or Section 49 of the Water (Prevention and Control of Pollution) Act, 1974, as the case may be, shall initiate legal action.

5. This order shall take immediate effect.

By the order of the Governor,

*Charan* 19/5/17  
(C Murti)

Special Secretary  
to the Government of Tripura

Copy to :-

1. The Principal Secretary to the Governor, Tripura, Agartala.
2. The Principal Secretary to the Chief Minister, Tripura.
3. The P.S/P.A to all the Ministers, Tripura, Agartala.
4. The Chairman, Tripura State Pollution Control Board, Agartala.
5. All Municipal Corporations, Municipal Councils, Nagar Panchayat, Panchayet Samities, Block Advisory Committees, Zilla Parishad, Tripura.
- .....
6. The Principal Secretaries/Commissioners/Secretaries/Special Secretaries to the Govt. of Tripura, Agartala.
7. The Member Secretary, Tripura State Pollution Control Board, Agt.
8. All Heads of Department/PSU/Organization/Board/Agency, Tripura.
- .....
9. All DM & Collectors / SDMs / BDOs, Tripura.....
10. The Sabiet of Matabari Temple/ Kasba Kalibari Temple/ Chaturdash Devatabari Temple, Tripura.
11. The Manager, Government Press for publication of this notification in the next issue of official gazette.
12. Sri S. Banik, Scientific Officer, DSTE, Agartala for information & requests to publish the same in Official Website of this Department.



*Charan* 19/5/17  
(C Murti)  
Special Secretary  
to the Government of Tripura

**APPENDIX 6: Environmental Safeguard Training/Meeting for All the Packages****Environment Safeguard Meeting and orientation of EMP on 22<sup>nd</sup> June 2023 for ADB funded “Agartala City Urban Development Project”**

Safeguard review meeting/ training has been conducted on environment safeguard compliance issues relevant to project and application of Environmental Management Plan (EMP) at ASCL office, Agartala on 22<sup>nd</sup> June 2023 morning.

Meeting has been organized from ASCL in association with Environment Health Safety Independent Consultant ADB-PMU and Environmental & Social Nodal Officer of PMU, PIU's Executive, Assistant Engineer, Construction Manager and Environment support staff of PMC, Project Manager and Contractor's Environment, Health, and Safety officer attended that review meeting cum orientation program.

The issues discussed like,

- Availability of HSE person of contractors
- Overall environment safeguard documentations- submission of EMP application checklist
- Availability and validity of legal documents like Labour license, WC policy, All risk policy
- Overall application of EMP and compliance of safety requirement, specifically gaps noted at sites
- Labour Camp & site office management- requirement of proper sanitation and solid waste management facility
- Disposal of construction waste, overburden earth, rocks, spoil materials after work
- Storage of construction materials and specifically steel rod, cement, petroleum product/ fuel storage
- Occupational and public safety during construction
- Community safety – complete use of caution tape and barricade
- Traffic management and spoil management during construction
- Requirement of Pollution Under Control (PUC)/ No Objection Certificate (NOC) from concerned department and renewal of the same before expiry
- Requirement of monitoring data on air quality, noise level and water quality during construction. Monsoon period data is not acceptable.
- Requirement of finalization of tree felling for other smart Roads except Barjala, under project

Specific non-compliance issues have been discussed with respective contractors for compliance.

**Package wise safeguard status as discussed,****Ujjayanta Palace - Package**

- Submission of monthly draft EMP checklist on time within 5<sup>th</sup> day of month. Which is not submitted on time. Final submission after checking and authentication by PIU and PMC within 8<sup>th</sup> day of the month. Soft copy should be marked to Environmental & Social Nodal Officer of PMU.

- Requirement of submission of compliance report against site observation, as per schedule. Contractor not submitted Environment compliance report timely.
- Sufficient safety signage board needs to be placed at work sites
- Complete use of PPEs by workers at site: Instruction has been given for complete use of PPEs throughout the project implementation period. Hand gloves and shoes should be sufficient
- Proper storage of construction materials. Suggested for bunding of materials with brick. Steel rod should be stored above the ground and under cover
- Improvement of housekeeping and worker's camp
- Availability of project display board and signage board at all working locations
- GRM board with contact number should be placed at all the construction sites.
- Complete caution tape/ barricade should be placed at all excavated areas of fixed location
- Kitchen in the camp should be separate. For cooking purpose cooking gas needs to be provided instead of use of wood for cooking. Electrical safety needs to be improved in the camp
- Burning of wood for cooking should be avoided
- Health Check-up Camp: Health checks up needs to be done on bi- annual basis.
- Electrical safety needs to be improved. All switch board should be within the closed area and under the shed. All electrical wires should be above the ground.
- Rubber mat should be placed below the main switch board

#### **MBB College Lake - Package**

- Submission of monthly draft EMP checklist on time within 5<sup>th</sup> day of month. Which is not submitted on time. Final submission after checking and authentication by PIU and PMC within 8<sup>th</sup> day of the month. Soft copy should be marked to Environmental & Social Nodal Officer of PMU.
- Requirement of submission of compliance report against site observation, as per schedule. Contractor not submitted Environment compliance report within the stipulated time.
- Information Board: It was suggested to install permanent project display board at all work sites. Also needs to place GRM contact number board
- At few works areas surface lake water used for construction. Immediate NOC needs to be obtained from concerned authority for withdrawal of surface water from the lake. Which is long pending.
- Sufficient safety signage board needs to be placed at work sites
- Use of ear plugs and noise mask is must during piling work.
- Worker's camp needs to be improved with arrangement of proper bed, fan, ventilation, light etc. At labour camp toilet and kitchen area roof needs to be repaired. Electrical safety needs to be improved in the camp
- Cleaning of toilet is essential
- Burning of wood for cooking should be avoided. Cooking gas should be arranged and no kitchen is allowed within the labour's room. Kitchen should be always separate.

- Complete use of PPEs is mandatory. Specifically, use of shoes, helmet, safety belt, nose mask, ear plugs and hand gloves are essential.
- Electrical safety needs to be improved. All switch board should be within the closed area and under the shed. All electrical wires should be above the ground. Proper placement of electric board within the camp. Rubber mat should be placed below electric switch board
- Collection of Consent (pollution control board paper) from third party RMC manufacturer
- First aid box should be available at all work sites. Sufficient first aid materials should be available
- Proper storage of materials, like covering of stored materials, steel rod above the ground Documentations:

### **Smart Road - Package**

- **Tree felling survey and necessary NOC from Forest Dept.** It is informed by contractor that tree felling details submitted for Barjala road. PMC and PIU confirmed that finally verified number for tree felling is 132 nos. Letter has been sent to forest dept. for getting tree felling NOC. Permission is obtained for felling of 157 nos. trees. Demand letter received from forest dept. for deposition of money for tree felling.
- Safety signage board needs to be placed at work site
- Removal of construction materials from nearby house at construction site of Barjala road.
- Complete use of caution tape/ hard barricade at excavated/ work area is necessary. Temporary arranged will be not allowed.
- Placement of caution board on the road before start of construction work.
- For cooking purpose cooking gas needs to be provided instead of use of wood for cooking.
- Electrical safety needs to be improved in the camp. Cleaning of toilet is essential
- Drinking water should be available at all work sites
- Burning of wood for cooking should be avoided
- Complete use of PPEs is mandatory. Specifically, use of shoes, helmet, safety belt, nose mask and hand gloves are essential.
- Proper access, placement of metal / wooden plank is needed at excavated area.
- Electrical safety needs to be improved. All switch board should be within the closed area and under the shed. All electrical wires should be above the ground. Proper placement of electric board within the camp. Rubber mat should be placed below electric switch board
- First aid box should be available at all work sites. Which is not available at construction site. Sufficient first aid materials should be available
- Materials should be stored within demarcated area and covering of materials is required with plastic sheet.
- In case of construction materials on private land, NOC needs to be obtained from the private land owner.

- NOC from Mining Department if material procured through mining: The natural raw materials like sand, gravel and soil shall be procured/ sourced from the authorized mines listed by Tripura Government. For material like gravel and bituminous macadam that are not available in the state, the contractor shall ensure that it shall be procured/ sourced from authorized mines listed by the respective state government website.
- Requirement of submission of compliance report against site observation, as per schedule. Contractor not submitted Environment compliance report within the stipulated time.
- It was suggested that contractor have to record all environment, health & safety related documents and monitoring checklist should be submitted timely on monthly basis through PIU to PMU and PMC. Final submission after checking and authentication by PIU and PMC within 8<sup>th</sup> day of the month. Soft copy should be marked to Environmental & Social Nodal Officer of PMU.



### Environmental Safeguard Review Meeting

### ASCL Conference Hall, Agartala

Attendance sheet attached as **Annex 1**

ANNEX 1

Attendance Sheet

Environment safeguard Review Meeting and Orientation of EMP

Project-Agartala City Urban Development Project (ACUDP)

Venue- ASCL Conference Room, Agartala

Date- 22.06.2023 at 11:30AM

| Sr. No. | Name               | Designation                     | Name of the Organization            | Contact No. | Male(M)/ Female (F) | Signature |
|---------|--------------------|---------------------------------|-------------------------------------|-------------|---------------------|-----------|
| 1       | Sajal Ghosh        | EE, ASCL                        | ASCL                                | 9436652196  | M                   |           |
| 2       | Subodh Debbano     | CG, ASCL                        | ASCL                                | 9562807148  | M                   |           |
| 3       | Moulicha Goswami   | ESNO, ASCL                      | ASCL                                | 9436122069  | F                   |           |
| 4       | MANAN ROY          | Asst. PROJECT MANAGER           | VASISHTA CONSTRUCTIONS Private      | 8881301560  | M                   |           |
| 5       | SREESHANITA        | EHS                             | NCPL                                | 9676273629  | M                   |           |
| 6       | ASHRABER ACARY     | EHS                             | MAECCORAL E PERFORMANCE<br>Pvt. Ltd | 8989469246  | M                   |           |
| 7       | DISFIANI GHOSH     | GTE                             | MPPL                                | 7005314513  | F                   |           |
| 8       | K. Parshad         | PM                              | MPPL                                | 9354014111  | M                   |           |
| 9       | Rachindra Das      | HSE                             | MPPL                                | 9485097054  | M                   |           |
| 10      | Rupak Debnath      | JE/ASCL                         | ASCL                                | 7005190733  | M                   |           |
| 11      | Akash Bhattacharya | JE, ASCL                        | ASCL                                | 8787728497  | M                   |           |
| 12      | Mougli Sarkar      | EHS engineer                    | PMC                                 | 7005074108  | F                   |           |
| 13      | Rahul Das          | AE, ASCL                        | ASCL                                | 8794035809  | F/M                 |           |
| 14      | Sahil Das          | JE, ASCL                        | ASCL                                | 8994172575  | M                   |           |
| 15      | Sushil Kumar       | PMC Conv. Mgr.                  | PMC                                 | 9263608001  | M                   |           |
| 16      | Dr. Ardhendu Mitra | IC Environ-<br>ment-<br>PMU-ADB | PMU-<br>ADB                         | 9830415953  | M                   |           |

## APPENDIX 7: Health Check-up Camp Tie-up with Hospital

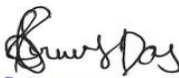
### Sample of Health Check-up at Smart Road project

#### HEALTH CHECK-UP CAMP & AWARENESS CAMPAIGN OF HIV / AIDS

I Dr. Subhakar Das (MBBS), Registration number 009627 (TSMC) have conducted a health check-up camp & Awareness campaign of HIV/AIDS at Vasishta construction private limited at your base camp on 30/06/2023 project named **upgradation of major roads and post completion maintenance for 05 years**

I have examined total 74 no. of persons in which 32 no of persons are drivers and the rest 42 no of persons are workers. I checked and found that all the drivers and workers are medically fit to work.

Date: 30.06.2023  
Place : Chandmari, VCPL Base Camp


  
**DR. Subhakar Das**  
**M.B.B.S. (TU)**  
**Reg. No-009627 (TSMC)**  
Signature & Stamp



| Sl. No | Name             | SL.NO | Name                |
|--------|------------------|-------|---------------------|
| 1      | Pushpa Rani Das  | 41    | Malay Das           |
| 2      | Manashi Biswas   | 42    | Surajit Laskar      |
| 3      | Bina Das         | 43    | Dulal Malakar       |
| 4      | Manju Paul       | 44    | Deepjoy Das         |
| 5      | Debu Dey         | 45    | Krishna Mandal      |
| 6      | Umesh Datta      | 46    | Pintu Kumar         |
| 7      | Naru Das         | 47    | Abdul Ali           |
| 8      | Dulu Sharma      | 48    | Ranjit Das          |
| 9      | Raju Das         | 49    | Lakhan Sarkar       |
| 10     | Nanda Mog        | 50    | Sourab Barai        |
| 11     | Ganesh Debbarma  | 51    | Kunjaraj Tripura    |
| 12     | Rajkumar Reang   | 52    | Naudi Mohan Tripura |
| 13     | Sunadhan Chakma  | 53    | Prasenjit Das       |
| 14     | Biplab Shil      | 54    | Gopal Seal          |
| 15     | Ukhai Mog        | 55    | Gobinda Das         |
| 16     | Biswajit Tripura | 56    | Joydeep Roy         |
| 17     | Manohar Thapa    | 57    | Sudhangshu Debnath  |
| 18     | Ajay Debbarma    | 58    | Sanjib Chakma       |
| 19     | Amarjit Tripura  | 59    | Bishnu Swami        |
| 20     | Babol Debnath    | 60    | Amal Tripura        |
| 21     | Ratan Debnath    | 61    | Ranjit Chetri       |
| 22     | Hazrat Ali       | 62    | Abhiman Roy         |
| 23     | Bimal Roy        | 63    | Suhel Akter         |
| 24     | Biswajit Das     | 64    | Samiran Datta       |
| 25     | Sankar Chakma    | 65    | Prankumar B. Kora   |
| 26     | Purnajay Tripura | 66    | Dulal Miah          |
| 27     | Deep De y        | 67    | Samiran Das         |
| 28     | Dibakar Paul     | 68    | Narayan Das         |
| 29     | Rubel Akter      | 69    | Rezzak Ali          |
| 30     | Bijen Singha     | 70    | Parimal Debnath     |
| 31     | Faruk Ahmed      | 71    | Saherul Haque       |
| 32     | Taranjoy Tripura | 72    | Safikul Ali         |
| 33     | Bidyaman Chakma  | 73    | Ashabul Haque       |
| 34     | Ram Majumder     | 74    | Prasenjit Nandi     |
| 35     | Dipak Das        |       |                     |
| 36     | Suman Datta      |       |                     |
| 37     | Jutan Das        |       |                     |
| 38     | Sanjib Kumar Das |       |                     |
| 39     | Manojit Paul     |       |                     |
| 40     | Nirmal Reang     |       |                     |

Date: 30-06-2023

Place : Chandmari, VCPL Base-Camp

  
DR. Subhakar Das  
M.B.B.S. (TU)  
Reg. No-009627 (TSMC)

Signature & Stamp





Some Photographs of Health Check-Up Camp



## Sample of Health Check-up at Ujjayanta Palace

### HEALTH CHECK-UP CAMP

I Dr. Bishal DebBarma (MBBS), Registration no: 002951 have conducted a health check-up camp at Mecgale Premier world JV at your base camp on 30<sup>th</sup> June, 2023, project named Renovation & Restoration of Ujjayanta Palace Garden Including Operation Maintenance for Five(05) Years.

I have examined Total 19 no. persons. I checked & found that all the persons are medically fit to work.

Date: 30.06.23

Place: Ujjayanta Palace

  
Signature & stamp  
DR. Bishal Debbarma  
M.B.B.S. (TMC)  
Reg. No:- 002951(TSMC)



| NAME |                         |
|------|-------------------------|
| 1    | Mahesh Namaskar         |
| 2    | Sunil D/Barma           |
| 3    | Jiban Krishna Chowdhury |
| 4    | Abhijit Roy             |
| 5    | Palash Dey              |
| 6    | Kishore D/Barma         |
| 7    | Ranjit Paul             |
| 8    | Sahid D/Barma           |
| 9    | Tapash Das              |
| 10   | Rajesh Sangma           |
| 11   | Jayanta Dhar            |
| 12   | Prantosh                |
| 13   | Uttam Das               |
| 14   | Mona Das                |
| 15   | Radul Das               |
| 16   | Rakhal Majumder         |
| 17   | Ganesh Pal              |
| 18   | Vijay Mitra             |

Date: 30/06/23

Place: Ujjayanta Palace, labour camp

  
Signature & Stamp  
Reg. No. 002951(TSMC)  
M. B. B. S. (TMC)  
DR. Bishal Debarma

Photographs of health Check-up camp



## Sample of Health Check-up at MBB College Lake

### HEALTH CHECK-UP CAMP

I Dr. Bishal DebBarma (MBBS), Registration no: 002951 have conducted a health check-up camp at Mecgale Pneumatics Pvt. Ltd. at your base camp on 29<sup>th</sup> June, 2023, project named MBB College Lake Revitalizations including Operation & maintenance for 05(five) years.

I have examined Total 30 no. persons. I checked & found that all the persons are medically fit to work.

Date: 29.06.23

Place: MBB College tilla Lake

*P2*  
29/06/23  
Signature & stamp  
Dr. Bishal Debbarma  
M.B.B.S. (TMC)  
Reg. No.: 002951(TSMC)



| SL No: | NAME              |
|--------|-------------------|
| 1      | Anir Sardar       |
| 2      | Becharam Bag      |
| 3      | Manoj Bag         |
| 4      | Bipal Bag         |
| 5      | Sridam Bag        |
| 6      | Bapi Roy          |
| 7      | Partha Roy        |
| 8      | Rabindra Nama Das |
| 9      | Tushar Kanti Das  |
| 10     | Dukul Chakma      |
| 11     | Srinivas Sarkar   |
| 12     | Pintu Malakar     |
| 13     | Gopal Sutradhar1  |
| 14     | Shahosh Chakma    |
| 15     | Nakul Chakma      |
| 16     | Basu              |
| 17     | Dipen             |
| 18     | Supal Debayan     |
| 19     | Arpan Chakma      |
| 20     | Rajesh Bhowmik    |
| 21     | Gopinath Tarun    |
| 22     | Kajal Ch Barma    |
| 23     | Sonu Majhi        |
| 24     | Samrat Sukhlab    |
| 25     | Sudip Bhowmik     |
| 26     | Bijay Bhowmik     |
| 27     | Susanta Mondal    |
| 28     | Biswanath D/Barma |
| 29     | Prasenjit Das     |
| 30     | Sanjib D/Barma    |

Date: 29/06/23


Place: MBB College Tilla Lake, labour camp

Signature:   
DR. BISWANATH D. BARMA  
M.B.S. (TMC)  
Reg. No.: 002951(TSMC)

Photographs of health Check-up camp



## Tie Up with Hospital by "Major Road project" contractor



**Letter No.: ILS/AGT/BD/COPR.COMM/30/2022** **Dated: 16<sup>th</sup> June, 2022**

To  
The Project Manager  
Vasishtha Construction Pvt. Ltd.  
Agartala


**Sub: Tie up between Vasishtha Construction Pvt. Ltd. and ILS Hospitals, Agartala for providing medical facilities at ILS Hospitals, Agartala.**

Dear Sir,

With reference to your communication through email, we would like to offer the provision of facilities/services available at ILSA with following terms & conditions:-

- > 10% discount on In-door patient bill except medicines, consumables and Doctor's fees.
- > 10% discount on all types of OPD diagnostics.
- > No discount on Package Surgery & Health Check-up Packages.
- > No discount on Blood/Blood Products, Procedures, Medicine / Consumables / Equipments.
- > No discount on OPD consultation fees.
- > On emergency, ambulance will be provided subject to availability.
- > Services will be provided as per current hospital rates with applicable discount mentioned above on cash basis.
- > Eligibility criteria for In-Door class to be defined by Vasishtha Construction Pvt. Ltd. for its different category of employees.
- > All patients must come with "Authorization letter" from Vasishtha Construction Pvt. Ltd. duly signed by designated authority and ID card.
- > Agreement will be valid for 1 year (16.06.2022 to 14.06.2025)

Yours faithfully,  
For ILS Hospitals, Agartala  
Prop: GPT Healthcare Private Limited.



**Manoj Kumar Deb Nath**  
Deputy Manager - Business Development

**GPT** | ILS Hospitals

Regd. Office: GPT Healthcare Limited, JC - 25, Sector - III, Salt Lake City, Kolkata - 98  
Ph.: 033 4050 7000/01 | CIN: U70101WB1989PTC047402

|                                 |                                |                               |                              |
|---------------------------------|--------------------------------|-------------------------------|------------------------------|
| Salt Lake<br>Ph.: 033 4020 6500 | Agartala*<br>Ph.: 0381241 5000 | Dumdum*<br>Ph.: 033 4031 5001 | Howrah<br>Ph.: 033 4088 0000 |
|---------------------------------|--------------------------------|-------------------------------|------------------------------|

E-mail: [info@ilshospitals.com](mailto:info@ilshospitals.com) • Website: [www.ilshospitals.com](http://www.ilshospitals.com)



## Tie up with Hospital for MBB College Lake Project.



Letter No.: ILS/AGT/BD/COPR.COMM/34/2020



Dated: 07<sup>th</sup> October, 2022

To  
Mecgale Pneumatics Pvt Ltd  
N-65, MIDC, Hingna, Nagpur  
Maharashtra - 440016

**Sub: Tie up between "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" with ILS Hospitals, Agartala for providing medical facilities.**

Dear Sir,

We are pleased to offer the medical facilities to "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV". The employees & workers of the two Projects under Agartala Smart City - Renovation & Restoration of Ujjayanta Palace Garden & MBB College Lake will be covered under the tie-up.

We would like to confirm provision of facilities/services available in our hospital submit to following terms & conditions:-

- 5 % discount on In-door patient bill except medicines, consumables and Doctor's fees.
- 5 % discount on all types of OPD diagnostics.
- No discount on Package Surgery & Health Check-up Packages.
- No discount on Blood/Blood Products, Procedures, Medicine /Consumables /Equipments.
- No discount on OPD consultation fees.
- On emergency, ambulance will be provided subject to availability.
- Services will be provided as per current hospital rates with applicable discount mentioned above on cash basis.
- Eligibility criteria for In-Door class to be defined by "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" for its different category of employees & Workers.
- All patients must come with "Authorization letter" from "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" duly signed by designated authority and ID card.
- Agreement will be valid for 2 year, w.e.f 07.10.2022

Yours faithfully,  
For ILS Hospitals, Agartala  
Prop: GPT Healthcare Private Limited.

  
**Manoj Kumar Debnath**  
Deputy Manager - Business Development

**GPT** | ILS Hospitals | Regd. Office: GPT Healthcare Limited, JC - 25, Sector - 41, Salt Lake City, Kolkata - 91  
Ph.: 033 4030 7000/01 | CIN: U70101WB19E9PTC047402  
Salt Lake | Agartala\* | Dumdum\* | Howrah  
Ph.: 033 4020 6500 | Ph.: 03812415000 | Ph.: 033 40315001 | Ph.: 033 4088 0000

E-mail: info@ilshospitals.com • Website: www.ilshospitals.com

## Tie up with Hospital for Ujjayanta Palace Project.



Letter No.: ILS/AGT/BD/COPR.COMM/34/2020



Dated: 07<sup>th</sup> October, 2022

To  
Mecgale Pneumatics Pvt Ltd  
N-65, MIDC, Hingna, Nagpur  
Maharashtra - 440016

**Sub: Tie up between "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" with ILS Hospitals, Agartala for providing medical facilities.**

Dear Sir,

We are pleased to offer the medical facilities to "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV". The employees & workers of the two Projects under Agartala Smart City - Renovation & Restoration of Ujjayanta Palace Garden & MBB College Lake will be covered under the tie-up.

We would like to confirm provision of facilities/services available in our hospital submit to following terms & conditions:-

- 5 % discount on In-door patient bill except medicines, consumables and Doctor's fees.
- 5 % discount on all types of OPD diagnostics.
- No discount on Package Surgery & Health Check-up Packages.
- No discount on Blood/Blood Products, Procedures, Medicine /Consumables /Equipments.
- No discount on OPD consultation fees.
- On emergency, ambulance will be provided subject to availability.
- Services will be provided as per current hospital rates with applicable discount mentioned above on cash basis.
- Eligibility criteria for In-Door class to be defined by "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" for its different category of employees & Workers.
- All patients must come with "Authorization letter" from "Mecgale Pneumatics Pvt Ltd & Mecgale Premierworld JV" duly signed by designated authority and ID card.
- Agreement will be valid for 2 year, w.e.f 07.10.2022.

Yours faithfully,  
For ILS Hospitals, Agartala  
Prop: GPT Healthcare Private Limited.

  
Manoj Kumar Debnath  
Deputy Manager - Business Development

GPT | ILS Hospitals

Regd. Office: GPT Healthcare Limited, IC - 25, Sector - III, Salt Lake City, Kolkata - 90  
Ph.: 033 4050 7000/11 | CIN: U70101WB1989PTC047402  
Salt Lake | Agartala\* | Dumdum\* | Howrah  
Ph.: 033 4020 6500 | Ph.: 03381 241 5000 | Ph.: 033 4031 5001 | Ph.: 033 4088 0000

E-mail: info@ilshospitals.com • Website: www.ilshospitals.com

## APPENDIX 8: Public Consultation on Environmental issues

### Consultations at Ujjayanta Palace Complex on 18<sup>th</sup> March 2023

**Date :** 18.03.23

**Place :** Ujjayanta Palace Project

**Participants :**

- i. Dr. Rajani Iyer , PMC
- ii. Ms. Moutoshi Sarkar,PMC
- iii. Ms. Mautosi Chaudhuri, ASCL
- iv. Ms. Jayasri , ASCL

**Purpose :** Discussed with the visitor's & Staff of Ujjayanta Palace Museum about the progress and their opinion regarding the ongoing work. General discussion and the expectation of the people from the outcome of the project.

Ujjayanta Place is a historical and well maintained site and it is on the top places to visit in Agartala.

Most visitors are visiting this for the first time and appreciate the structure of the building and the various items pertaining to the history of the state and key importance in the liberation of Bangladesh.

While construction activities are ongoing, they are not impacted much. Dust is mostly manageable. They feel that it is a minor irritant as the proposed changes will be worth the current disturbance.

There is no disturbance due to construction activities to the visitors as pathways allow for visitors to travel freely.

The people and staff are eagerly awaiting of completion of the construction activities.

The number of visitors are high except for the election and results related period. Average more than 1000 visitors in a month was reported. While foreigners from European countries are less, numbers after G20 is expected to increase. Among foreigners, visitors from Bangladesh comprise of a significant number.

**Pictures:**





v



## Stakeholder consultations at MBB College Lake on 13<sup>th</sup> March 2023 and 30<sup>th</sup> June 2023

Date : 13.03.23

Place : MBB College Lake Project

Participants :

- i. Dr. Shailesh Kumar Yadav, IAS, Chief Executive Officer, Agartala Smart City Limited,
- ii. Sri Sukhomoy Saha, Corporator, Agartala Municipal Corporation
- iii. Sri Subodh Debbarma, Executive Engineer, ASCL
- iv. ASCL officials including ESNO, AE, JEs,
- v. Representative of Contractors,
- vi. Agartala Municipal Corporation officials
- vii. College Students
- viii. Local Residents
- ix. Club Members

**Purpose :** Discussed with the local people about the progress of the and their opinion regarding the ongoing work. Also seek local support for proper implementation. General discussion and the expectation of the local people from the outcome of the project. Instructed the contractor to expedite the work. The contractor are also requested to complete the boundary work soon and also to make the entrance gate on priority basis.

Pictures:





**Date** -30.06.2023

**Place**- MBB College Lake

**Participants:**

- I. Dr. Shailesh Kumar Yadav, IAS, Chief Executive Officer, Agartala Smart City Limited
- II. Mr. Sajal Ghosh, Executive Engineer, ASCL
- III. Mr. Subodh Debbarma , Executive Engineer, ASCL
- IV. ASCL officials including ESNO, AE, JEs

- V. PMC officials
- VI. Representative of Contractors
- VII. Agartala Municipal corporation officials
- VIII. Principal and Professor of BBMC
- IX. Local Residents

**Purpose:** A Discussion was done with the principal of BBMC regarding the Boundary wall and solve the issues facing during construction work.



| No. | Name                 | Designation  | Organisation | Male/female |
|-----|----------------------|--|--------------|-------------|
| 1   | Panthe Blatterhappa  | Dy. Director   | Highw. & L.  | M           |
| 2   | Kishore Sarkar       | Assistant<br>Commissioner                                | AMC          | M           |
| 3   | Anshu K Yadav        | EZ, AMC<br>CEO ASU                                       | ASU          | M           |
| 4   | Ranjit Ghosh         | Surveyor   | MPPL         |             |
| 5   | Dr. Jiban K. Patra   | Asso. Professor  | BBMC         | Male        |
| 6   | ASHA DE              | Surveyor, ASU  | ASU          | Male        |
| 7   | Dr. Ganur K. Dikshit | Asso. Professor  | BBMC         | Male        |
| 8   | Ashfaqur Rahman      | HSE OFFICER  | MPPL         | M           |
| 9   | Abhishek Das         | Asst. Patrol   | BBMC         | M           |
| 10  | Soumitra Ray         | Executive<br>Engineer (D. & T)                           | AMC          | M           |
| 11  | Ilali Lal Sahu       | A.S.O.   | AMC          | M           |
| 12  | Ankur, DM            | Dy. Director   | DHE          | M           |
| 13  | Moutoshi Sarkar      | EHS, <sup>support eng.</sup> <del>PM</del> <sup>PM</sup> | PMC          | F           |
| 14  | Bimal Chandra Borra  | 1/c (ASU)  | AMC          | M           |
| 15  | Ratan Deb            | Principal 1/c  | B.B.M.C      | M           |
| 16  | K. Prasad            | PM   | MPPL         | M           |
| 17  | Ratnakar Maurya      | ACM (PMC)  | TCEL         | M           |
| 18  | JS PATEL             | GM CP/<br>Megha  | Megha        | GM          |
| 19  | Sajal Ghosh          | EE   | ASCE         | M           |
| 20  | Moutusi<br>Choudhury | ESNO   | ASU          | F           |



| Sl No. | Name            | Designation        | Organisation | Male/female |
|--------|-----------------|--------------------|--------------|-------------|
| 1      | Sayan Chandra   | Assistant Engineer | BBM e        | M           |
| 2      | Rupak Debnath   | JE/ASCL            | ASCL         | M           |
| 3      | ANIS K.R. SINGH | Asst. Mang.        | TCEL         | M           |
| 4      | Subodh Debbarma | EE, ASCL           | ASCL         | M           |
| 5      |                 |                    |              |             |
| 6      |                 |                    |              |             |
| 7      |                 |                    |              |             |
| 8      |                 |                    |              |             |
| 9      |                 |                    |              |             |

Date -30.06.2023

Place- VIP Road (Smart Road Project)

**Participants:**

**Participants:**

- I. Dr. Shailesh Kumar Yadav, IAS, Chief Executive Officer, Agartala Smart City Limited
- II. Mr. Sajal Ghosh, Executive Engineer, ASCL
- III. Mr. Subodh Debbarma, Executive Engineer, ASCL
- IV. ASCL officials including ESNO, AE, JEs
- V. PMC officials
- VI. Representative of Contractors
- VII. TNGCL, TJP officials.

**Purpose:** A discussion was held regarding the problem facing for TNGCL, DWS line during the earth excavation. After many discussions a solution was found and the contractor was instructed to expedite the work.



**APPENDIX 9: Grievance Redressal Mechanism****A. Common Grievance Redress Mechanism (GRM)**

1. A common grievance redress mechanism (GRM) has been put in place to receive, evaluate, and facilitate the resolution of social, environmental or any other project related grievances. The GRM aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. The GRM described below has been developed in consultation with stakeholders. Public awareness campaign will be conducted to ensure that awareness on the project and its grievance redress procedures is generated. The campaign will ensure that the poor, vulnerable and others are made aware of.
2. The GRM provides an accessible, inclusive, gender-sensitive and culturally appropriate platform for receiving and facilitating resolution of affected persons' grievances related to the project. The multi-tier GRM for the project is outlined below, each tier having time-bound schedules and with responsible persons identified to address grievances and seek appropriate persons' advice at each stage, as required. ULB-wide public awareness campaigns will ensure that awareness on grievance redress procedures is generated through the campaign. The Environmental and Social Safeguard Officer of PMU have the overall responsibility for timely grievance redress on environmental and social safeguards issues.
3. **Who can complain:** A complaint may be registered by stakeholders who may be, "directly, indirectly, materially, and adversely" affected by the project. Any other representative can register a complaint on behalf of the affected person/s or any stakeholder by, provided that he or she identifies the affected person/s and includes evidence of the authority to act on their behalf.
4. **What the Grievance/Complain should contain:** Any concerns pertaining to safeguard compliance - environment, involuntary resettlement, and indigenous people, design related issues, compensation, service delivery or any other issues or concerns related to the project. The complaint must contain name, date, address/contact details of the complainant, location of the problem area, along with the problem. Sample grievance registration form is attached herewith.
5. **Where & How to file a Complaint:** The contractor's site office will be the primary point for receiving and lodging any complaint. Apart from that, Grievances/ suggestions from affected persons can be dropped into suggestion boxes or conveyed through phone or e-mails. Affected Persons or any complainant will also be able to register grievances on social, environmental or other related issues, personally to the Central Complaint Cell located at ASCL office. Sample grievance redressal form is attached herewith. The Grievance Officer and designated official will be able to correctly interpret/record verbal grievances of non-literate persons and those received over telephone. The concerned Executive Engineers/ Asst. Engineer/ contractor's site engineer, Environment Health & Safety (HSE) Officer of Contractor has monitored these books and if possible take necessary actions to redress minor complaints with intimation to the complainant as well as to the Central Compliant Cell established at PIU level. The time period to resolve any grievances at different level of GRC has been discussed below.

PMU has maintained a Central Complaint Cell at ASCL office located in Agartala Municipal Corporation headed by a designated Grievance Officer/Administrative/ Executive Officer under CEO, ASCL. The Complaint Cell also serve as Public

Information Centre, where, apart from grievance registration, information on the Project, subprojects, social and environmental safeguards, etc. can be provided.

6. **Documentation:** Documentation of the complaints is important and must contain name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved. PMU with the support of PIU have the overall responsibility for timely grievance redress, and for registration of grievances, related disclosure, and communication with the aggrieved party. All the documents made available to the public at the community level (at ward offices) and will include information on the contact number, address and contact person for registering grievances, and disseminated throughout the project area by the PIU.
7. **Grievance/ Problem Redress through Participatory Process:** Efforts must be made by the PIU with the support of safeguard officers to resolve problems and conflicts amicably through participatory process with the community and the ULBs. In case of grievances that are immediate and urgent in the perception of the complainant, the Contractor and supervision personnel from the PIU provide the most easily accessible or first level of contact for the quick resolution of grievances. Contact phone numbers and names of the concerned staff and contractors has posted at all construction sites at visible locations.
8. **Grievance Redressal Committee:** In pursuance of Asian Development Bank (ADB) Guideline, an independent Grievance Redressal Committee (GRC) has established under Agartala Smart City Limited (ASCL) on 16.04.2021 and again revised on 21.05.2022 to address the grievance of persons affected due to implementation of sub- projects under ADB assisted projects. The composition of the GRC is provided below.

#### Composition of Grievance Redressal cell

| Level 1: Site level GRC   | Level 2: Central GRC   | Level 3: Apex GRC  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• Executive Engineer</li> <li>• Site Engineer, ASCL</li> <li>• EHS Officer of Contractor</li> <li>• Contractor's siteengineer</li> <li>• Representative of affected people (AP)</li> </ul> | <ul style="list-style-type: none"> <li>• CEO, ASCL</li> <li>• E&amp;S Nodal Officer</li> <li>• PEPO</li> <li>• Executive Engineer</li> <li>• Asst. Engineer</li> <li>• Team Leader, PMC</li> <li>• E&amp;S Officer, PMC</li> </ul> | <ul style="list-style-type: none"> <li>• Members of Executive committee of ASCL</li> </ul> |

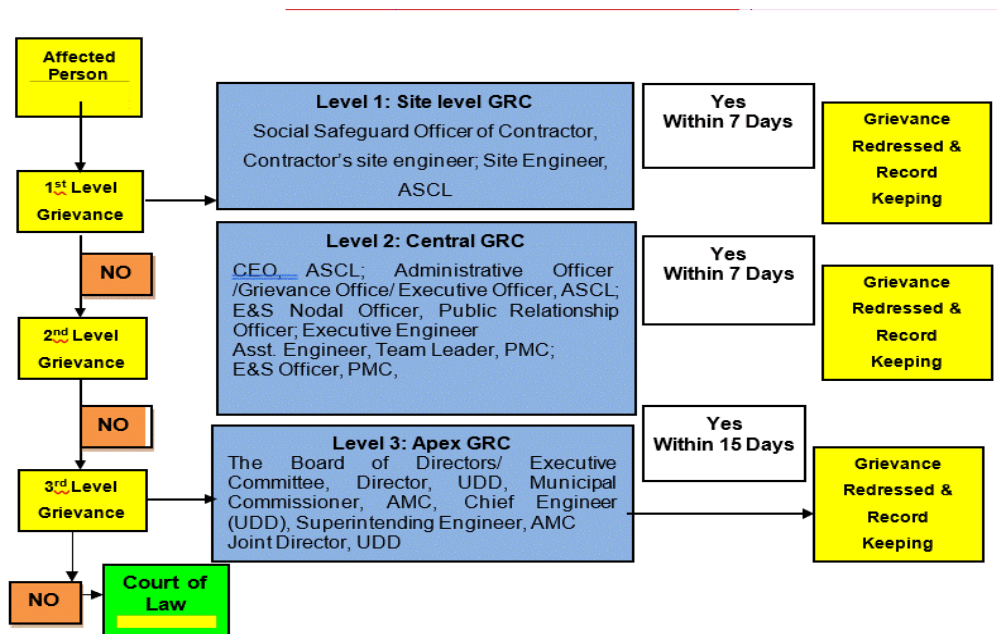
9. **Process and Timeframe:**
  - a. **1<sup>st</sup> level grievance:** In case of grievances that are immediate and urgent in the perception of the complainant, concerned officer of PIU will direct the contractor to and ensure that it is resolved. If the grievance is not under the contractor scope, but under the project, PMC (field office) will resolve this issue. All the grievances should be resolved within 7 days of receipt of a complaint/ grievance.
  - b. **2<sup>nd</sup> level grievance:** All grievances that cannot be redressed at first level within 7days will be brought to the notice of E&S nodal officer of ASCL to

place the issue to CEO ASCL. The Grievance Officer may consult/seek the assistance of the Environment & Social officer and Public Engagement Officer of the PMU and E&S Officer of PMC to resolve the complicated issues. The Central GRC will review the grievance and act appropriately to resolve it within 7 days of receipt at this level.

- c. **3<sup>rd</sup> level grievance:** All the grievances that are not addressed at 2<sup>nd</sup> level by PIU within in 15 days of receipt will be brought to the notice of the Apex Grievance Redressal Committee (GRC). The Apex GRC will meet twice a month and determine the merit of each grievance brought to the committee. The GRC will resolve the grievance within 1 month of receiving the complaint. The Social Safeguard Officer will communicate all decisions taken by the GRC to the complainant by the

10. The process of the grievance redressal mechanism (GRM) is given in Figure below.

**Grievance Redressal Mechanism**



EHS – Environmental Health & Safety, ASCL – Agartala Smart City Corporation Limited, CEO – Chief Executive Officer, E&S – Environment & Social, UDD – Urban Development Department.

- 11. In case of any inter-departmental or inter-jurisdictional coordination required for resolution of specific grievances, the PIU will refer the matter directly to the CEO ASCL for state-level or inter-departmental coordination and resolution. The project GRM notwithstanding, an aggrieved person shall have access to the country's legal system at any stage and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.
- 12. Periodic community meetings with affected communities to understand their concerns and help them through the process of grievance redress (including translation from local dialect/language, recording and registering grievances of non-literate affected persons and explaining the process of grievance redress) will be conducted if required. The above Grievance Redress Process will be discussed with the different stakeholders during

stakeholder consultation meetings. These meetings will be held with affected persons and community members (beneficiaries) and the concerned Municipal Ward Councillors where civil works are proposed. The process and timelines for grievance redress and contact details of the persons responsible for grievance redress will be shared in the stakeholder meetings. Action taken in respect of all complaints will be communicated to the complainant by letter, over phone or e-mail or WhatsApps the case may be.

13. **Consultation Arrangements for GRM** - This will include group meetings and discussions with affected persons, to be announced in advance and conducted at the time of day agreed on with affected persons and conducted to address general/common grievances; and if required with the Environment/Social Specialist of PMU/ PMC for one-to-one consultations. Non-literate affected persons/ vulnerable affected persons will be assisted to understand the grievance redress process, At the site office the Social Safeguard Officer of contractor and at PIU level, the Grievance officer or any other official appointed at receiving section will assist the Non-literate APs to register complaints and with follow-up actions at different stages in the process.
14. **Record keeping.** Records of all grievances received, including contact details of complainant, date the complaint was received, nature of grievance, agreed actions and measures, the date these were affected, and final outcome will be kept by PIU. The number of grievances recorded and resolved and the outcomes will be displayed/disclosed in the PIU office, ULB office and on the web, as well as reported in the semi-annual social and environmental monitoring reports to be submitted to ADB.
15. **Information dissemination methods of the GRM:** Grievances received, and responses provided will be documented and reported back to the affected persons. The number of grievances recorded and resolved and the outcomes will be displayed/disclosed in the Central Complaint Cell at ASCL and web. The phone number where grievances are to be recorded has displayed at the construction sites.
16. **Periodic review and documentation of lessons learned.** The PMU, and PIUs, supported by the PMC specialist will periodically review the functioning of the GRM and record information on the effectiveness of the mechanism, especially on the PIU's ability to prevent and address grievances.
17. **Costs:** All costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the PMU.
18. **ADB Accountability Mechanism:** If the established GRM is not in a position to resolve the issue, the affected person also can use the ADB Accountability Mechanism through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB India Resident Mission (INRM). Before submitting a complaint to the Accountability Mechanism, it is recommended that affected people make a good faith effort to resolve their problems by working with the concerned ADB operations department (in this case, the resident mission). Only after doing that, and if they are still dissatisfied, they could approach the Accountability Mechanism. The ADB Accountability Mechanism information will be included in the project- relevant information to be distributed to the affected communities, as part of the project GRM.



**AGARTALA SMART CITY LIMITED**  
(CIN: U74999TR2016SGC013499)  
**1<sup>ST</sup> FLOOR, UD BHABAN, SHAKUNTALA ROAD**  
**AGARTALA, WEST TRIPURA- 799001**

No.F. 4( 98)/ASCL/2020/ 10493-94

Dated. 21/05/2022

**NOTIFICATION**

In pursuance of Asian Development Bank (ADB) Guideline and as approved by the board of Directors in the 17<sup>th</sup> BOD meeting held on 27.12.2019, an independent Grievance Redressal Mechanism (GRM) was established under Agartala Smart City Limited (ASCL) vide letter no. No.F. 4( 98)/ASCL/2020/2150-2151 dated. 16/04/2021 to address the grievance of persons affected due to implementation of sub-projects under ADB assisted Agartala City Urban Development Project. A three tier Redressal structure is planned to address any complaints in the Project. Few modifications are hereby made. This is in line with the PAM.

The composition of the Grievance Redressal Committees (GRC) for ADB assisted projects:-

| First Tier /Site Level GRC   | Second Tier/Central GRC  | Third Tier/Apex GRC  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Executive Engineer</li> <li>• Site Engineer of ASCL</li> <li>• EHS officer of Contractor</li> <li>• Contractor's site engineer</li> <li>• Representative of Affected People (AP)</li> </ul> | <ul style="list-style-type: none"> <li>• CEO, ASCL</li> <li>• E&amp;S Nodal Officer</li> <li>• PEPO</li> <li>• Executive Engineer</li> <li>• Asst. Engineer</li> <li>• Team Leader, PMC</li> <li>• E&amp;S Officer, PMC</li> </ul> | <ul style="list-style-type: none"> <li>• Members of Executive committee of ASCL</li> </ul> |

The time limit of grievance redress will be as follows:-

- Site level: 7 days
- Central GRC: 7 days
- Apex GRC: 15 days

The terms of reference of Grievance Redressal Committee (GRC) will remain same.

**(Dr. Shailesh Kumar Yadav, IAS)**  
**Chief Executive Officer**  
**Agartala Smart City Limited**

Copy to:-

1. PS to the Secretary, UDD for kind information of the Secretary, UD Department..
2. Team Leader, PMC, ASCL.

### Sample Grievance Registration Form

(To be available in English and local language, if any)

The **ASCL** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing **\*(CONFIDENTIAL)\*** above your name. Thank you.

|   |  |                              |             |               |            |
|---|--|------------------------------|-------------|---------------|------------|
| <b>Date</b>   |  | <b>Place of registration</b> |             |               |            |
| <b>Contact Information/Personal Details</b>   |  |                              |             |               |            |
| <b>Name</b>   |  | <b>Gender</b>                | <b>Male</b> | <b>Female</b> | <b>Age</b> |
| <b>Home Address</b>   |  |                              |             |               |            |
| <b>Village / Town</b>   |  |                              |             |               |            |
| <b>District</b>   |  |                              |             |               |            |
| <b>Phone no.</b>  |  |                              |             |               |            |
| <b>E-mail</b>   |  |                              |             |               |            |
| <b>Complaint/Suggestion/Comment/Question Please provide the details (who, what, where and how)of your grievance below:<br/>If included as attachment/note/letter, please tick here:</b> |  |                              |             |               |            |
| <b>How do you want us to reach you for feedback or update on your comment/grievance?</b>  |  |                              |             |               |            |

#### FOR OFFICIAL USE ONLY

|   |   |
|---|---|
| <b>Registered by: (Name of official registering grievance)</b>  |   |
| <b>If – then mode:</b>  |   |
| <ul style="list-style-type: none"> <li>▪ <b>Note/Letter</b></li> <li>▪ <b>E-mail</b></li> <li>▪ <b>Verbal/Telephonic</b></li> </ul> |   |
| <b>Reviewed by: (Names/Positions of Official(s) reviewing grievance)</b>  |   |
| <b>Action Taken:</b>  |   |
| <b>Whether Action Taken Disclosed:</b>  | <ul style="list-style-type: none"> <li>▪ <b>Yes</b></li> <li>▪ <b>No</b></li> </ul> |
| <b>Means of Disclosure:</b>   |   |

#### GRIVENCES RECORD AND ACTION TAKEN

| <b>Sr. No.</b> | <b>Date</b> | <b>Name and Contact No. of Complainer</b> | <b>Type of Complain</b> | <b>Place</b> | <b>Status of Redress</b> | <b>Remarks</b> |
|----------------|-------------|---|-------------------------|--------------|--------------------------|----------------|
|                |             |   |                         |              |                          |                |
|                |             |   |                         |              |                          |                |



## Grievance Registration Format in Local language - Bengali

অভিযোগ নিবন্ধন ফর্মের নমুনা

..... প্রকল্পকে বাস্তবায়িত করার লক্ষে অভিযোগ, পরামর্শ, অনুসন্ধান এবং মন্তব্যের জন্য স্বাগত।

আমরা অভিযোগকারীকে অভিযোগ সহ নাম জানাতে উৎসাহিত করি এবং আপনার সাহচর্ষে এসে এর শোধন ও প্রতিক্রিয়া জানাতে সক্ষম হই।

অবশ্যই আপনি আপনার ব্যক্তিগত বিষয় বিস্তারিত ভাবে যুক্ত করতে ইচ্ছাপ্রকাশ করবেন। যে তথ্য আপনি দেবেন, তা অবশ্যই গোপন থাকবে। তাই অনুগ্রহ করে আপনার নাম লিখে / টাইপ করে জানান।

|   |                  |                           |                |      |
|---|------------------|---------------------------|----------------|------|
| তারিখ   | নিবন্ধনের জায়গা | প্রকল্পের শহর<br>প্রকল্পঃ |                |      |
| যোগাযোগের তথ্য / বিস্তারিত ব্যক্তিগত তথ্য   |                  |                           |                |      |
| নাম   |                  | লিঙ্গ                     | পুরুষ<br>মহিলা | বয়স |
| বাড়ীর ঠিকানা   |                  |                           |                |      |
| জায়গা / স্থান  |                  |                           |                |      |
| ফোন নং  |                  |                           |                |      |
| ই-মেল   |                  |                           |                |      |
| যেকোন অভিযোগ / পরামর্শ / মন্তব্য / প্রশ্ন অনুগ্রহ করে নিচে বিস্তারিতভাবে (কে, কি, কোথায় এবং কেমন করে) আপনার অভিযোগ জানান |                  |                           |                |      |
| যদি কোন সংযুক্তি / চিরকুট / চিঠি অন্তর্ভুক্ত করতে চান, অনুগ্রহ করে সেখানে টিক দিন।  |                  |                           |                |      |
| আপনার অভিযোগ / মন্তব্যের হালনাগাদ (আপডেট) বা প্রতিক্রিয়া কিভাবে পেতে চান?  |                  |                           |                |      |

Office ব্যবহারের জন্যঃ

|  |            |
|--|------------|
| অভিযোগ নিবন্ধনকারী আধিকারিকের নামঃ                   |            |
| যোগাযোগ ব্যবস্থাঃ                                    |            |
| চিরকুট / চিঠি-                                       |            |
| ই-মেল-   |            |
| মৌখিক / টেলিফোন-                                     |            |
| নিবন্ধকৃত অভিযোগ পর্যালোচনাকারী আধিকারিকের নাম ও পদঃ |            |
| অভিযোগের বিরুদ্ধে গৃহীত ব্যবস্থা-                    |            |
| গৃহীত ব্যবস্থা প্রকাশ্যে আনা হয়েছে কি না            | হ্যা<br>না |
| প্রকাশের উপায়                                       |            |