

Semi-Annual Environmental Monitoring Report

Project Number: 53262-001
Period: January – June 2022
Submission Date: August 2022

IND: AGARTALA CITY URBAN DEVELOPMENT PROJECT (ACUDP)

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AGARTALA CITY URBAN DEVELOPMENT PROJECT (ACUDP)

PROJECT MANAGEMENT UNIT

1st

SEMI ANNUAL ENVIRONMENT MONITORING REPORT

ADB Loan 4133-IND

(Period January to June 2022)

August 2022

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. 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.

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

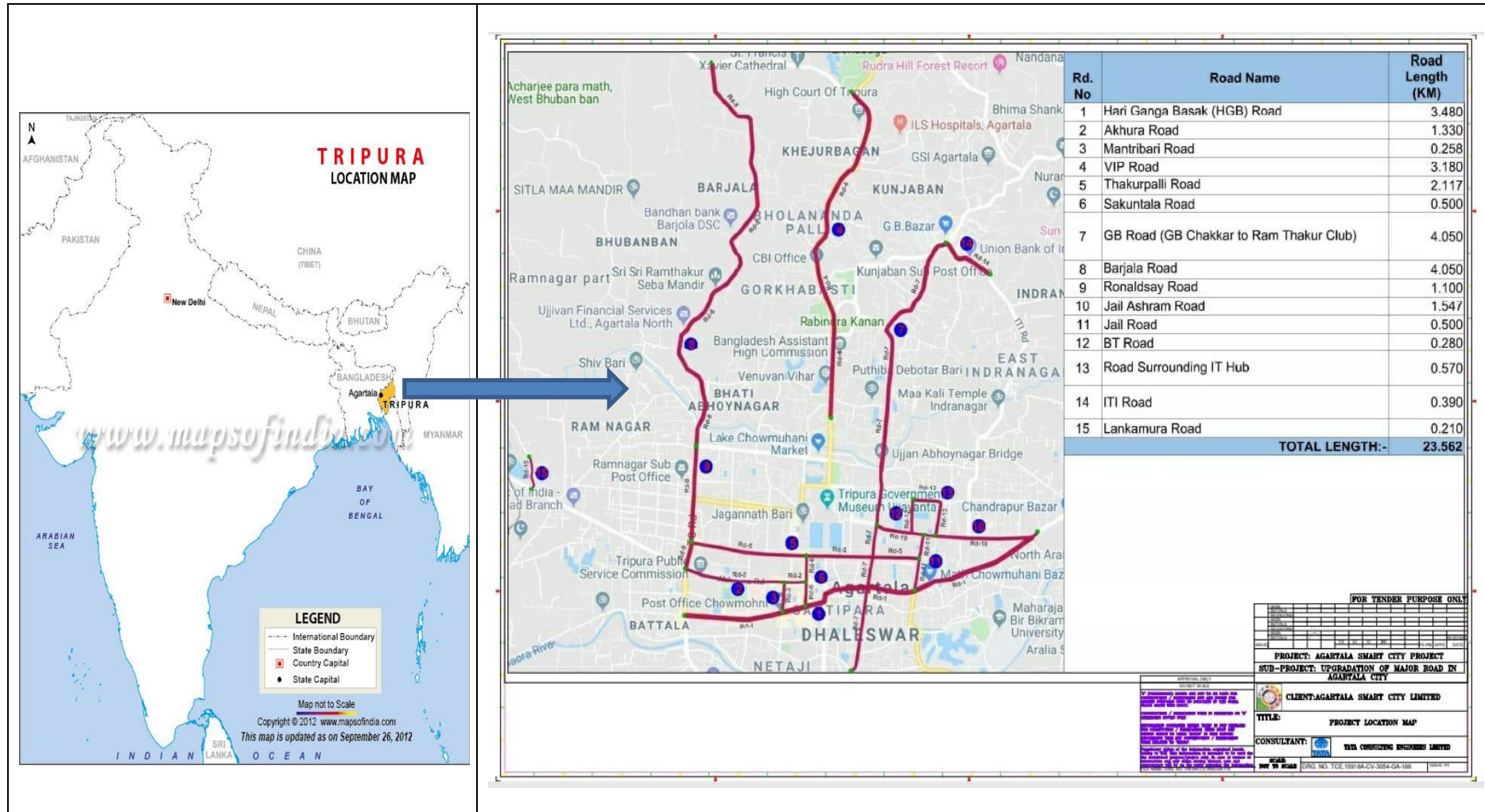


Figure 1A: Location of Project City and Project Area- Smart Road package

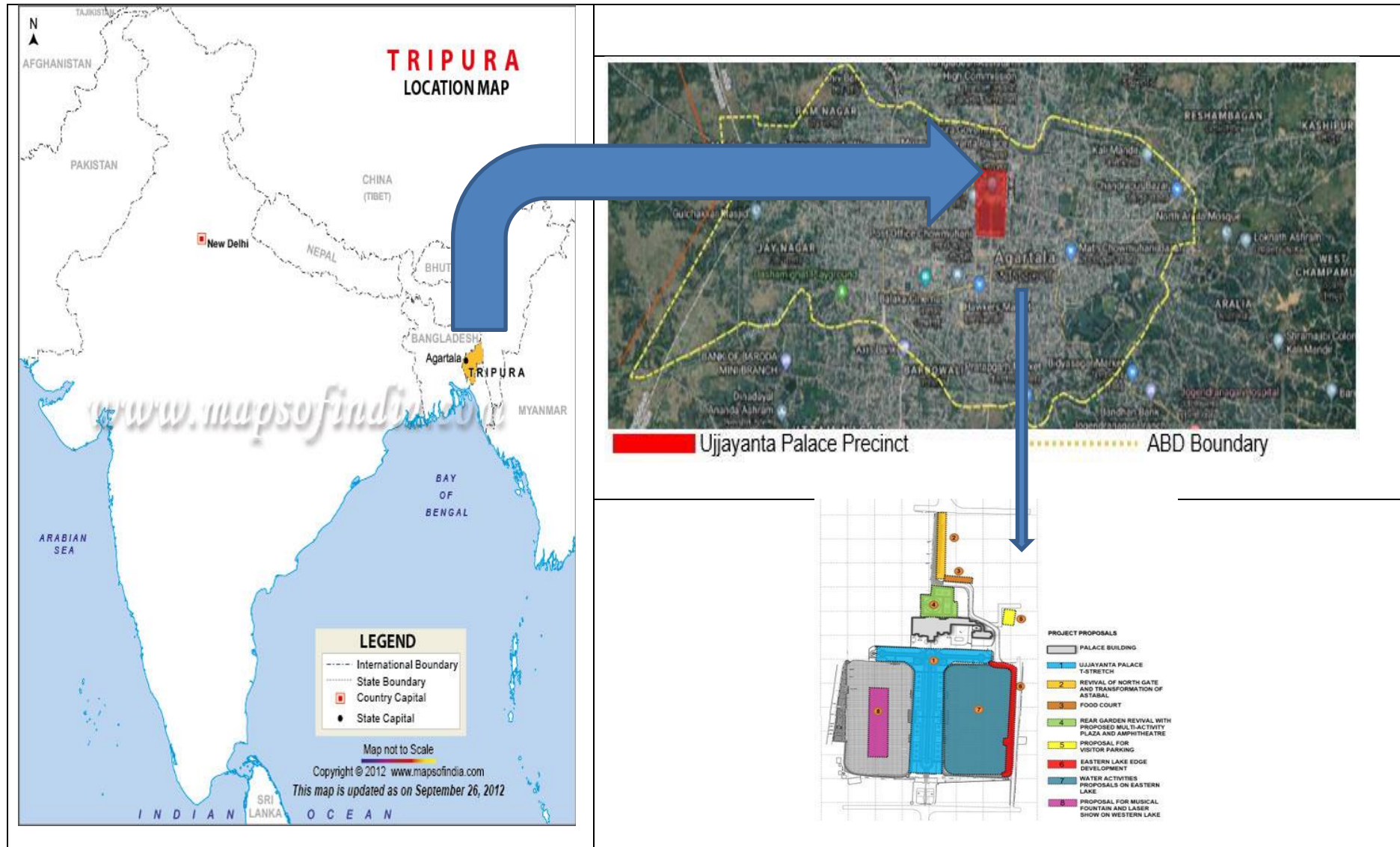


Figure 1B: Location of Project City and Project Area- Ujjayanta Palace package

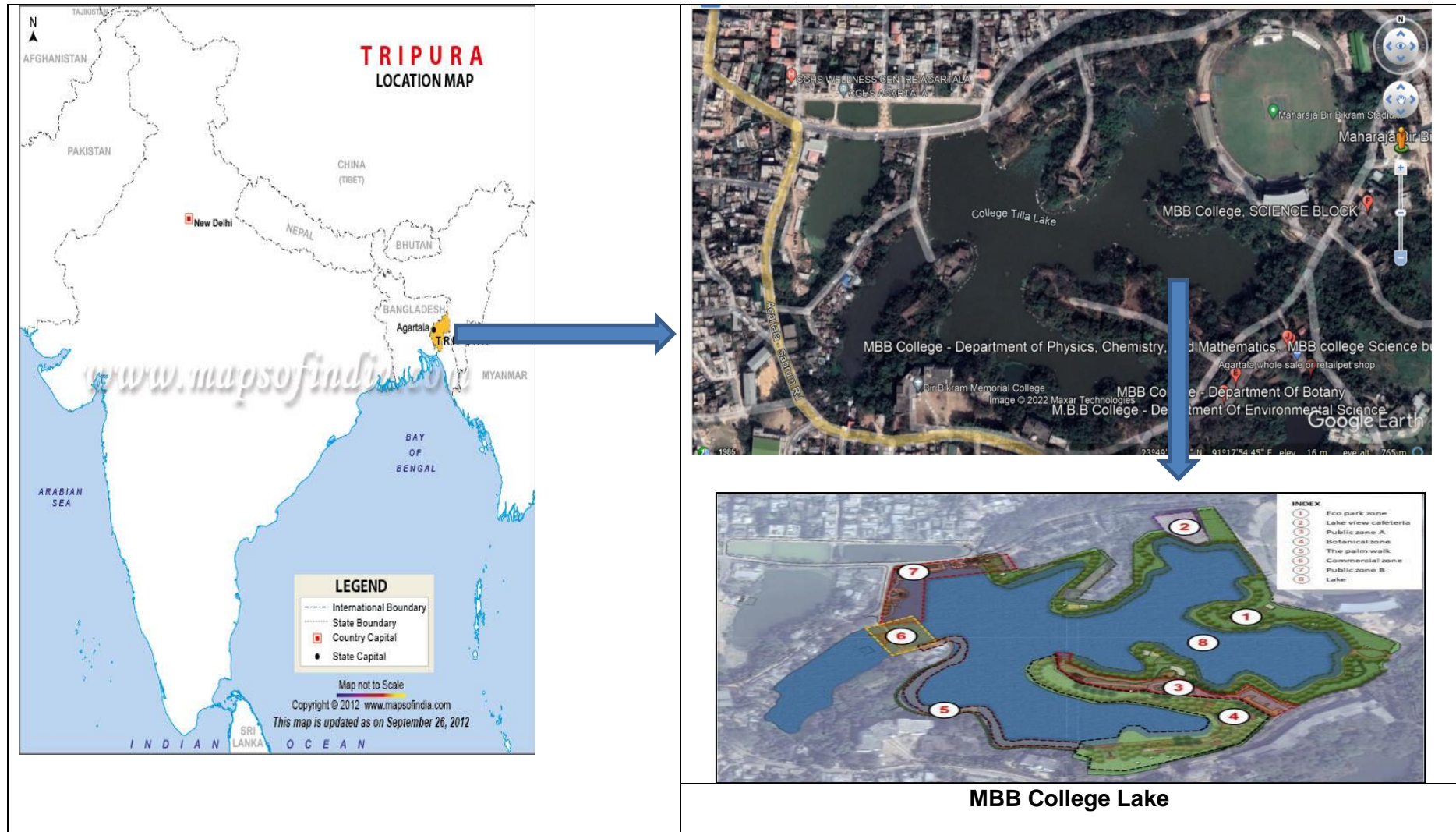


Figure 1C: Location of Project City and Project Area- MBB College Lake package

B. Project & Report Purpose

6. 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 in November 2020.

7. Sub projects 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.

8. This report is the “Semi Annual Environment Monitoring Report” for the period January to June 2022, 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

9. 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 June 2022) is very slow.

10. **Smart Road Package:** The Smart Road contract package was awarded on 9 November 2021 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. Currently confirmatory survey work going on for the some of the sub-projects such as: (i) Radhanagar to Lichubagan road; (ii) Pachavati Kali Mandir to Durga Choumuhani and (iii) Hariganga Basak Road.

11. **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 report period area cleaning and preparatory work has been initiated for Public Zone A, Public Zone B and Palm Walk.

12. **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. Currently works are ongoing at stable area, food court area and cleaning & preparatory work at rear garden area are also under progress.

13. **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 30th June 2022)**

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)	Overall Physical progress (%) as on 30 th June 2022
Agartala City	Upgradation of Major Roads and Post Completion Maintenance for 05 (Five) Years vide Contract Package No. 001	Awarded This sub project is covered by an item rate contract. LoA issued to M/s. Vasishtha Constructions Private Limited, Hyderabad, Ranga Reddy- 500 089, Telengana	09.11.2021	08.05.2029 30 months for Design and Build and 60 months for O & M	8 May 2024 for work and 8 May 2029 for O & M	Barjala Road Drain Excavation work to be started (0.0 %)
Agartala City	MBB College Lake Revitalisation including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002	Awarded 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 18 months for Design and Build and 60 months for O & M	8 July 2022 for work and 8 Aug 2027 for O & M	Survey work conducted. Till date No construction work started (0.0 %)
Agartala City	Renovation and Restoration of Ujjayanta Palace Garden including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 003	Awarded This sub project is covered by an item rate contract. LoA issued to M/s. Mecgale Premier world JV, N-65, MIDC, Hingna Industrial Estate Nagpur - 440 016, Maharashtra	09.02. 2021	08.08.2027 18 months for Design and Build and 60 months for O & M	8 July 2022 for work and 8 Aug 2027 for O & M	5.0 %

II. IMPLEMENTATION PROGRESS

A. Major works and progress

14. Physical work is ongoing for all three sub projects. **Table 2A, 2B & 2C** shows the detailed work progress till 30th June 2022 for all three sub projects.

15. 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 30th June 2022	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		Work not started
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	GB chakra	Ram Thakur Club Chowhumani	4.050	6.81	8.1	6.81		Work not started
8.	Barjala Road	12.00 to 16.00	Durga Chowmuhani	Barjala Chowmuhani	4.050	7.592	8.1	7.592	Preparatory work continued for drain	
9.	Ronaldsay Road	17.00	Durga Chowmuhani	Ker Chowmuhni/ Fire Brigade Chowmuhani	1.100	2.2	2.2	2.2		Work not started
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	Math chowmuhani	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

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 30th June 2022	Remarks
			From	To						
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
TOTAL LENGTHS					23.562	39.735	47.124	38.135		

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

Sr. No.	Item	Area (m ²)	Remark	Status	Overall progress up to 30 th June 2022*
1	Refurbishment of the existing pathway	1450	2 M WIDE		
2	Foot Bridge.	12	2 M WIDE		
3	Pontoon bridge	140	3.5 M WIDE	New	
4	Renovation of existing gazebos.	10	14 NOS		
5	Construction of a new deck with ticket counter	1100	Varying Width	New	
6	Ticket counter	35	2 NOS	1 New	
7	Construction of play area	200		New	
8	Construction of Amphitheatre	225		New	
9	Construction of food court.	160		New	
10	Installation of fountain plaza.	350		New	
11	Construction of public toilets	120	3 NOS	1 New	
12	Construction of Ghats	60		New	
13	Up gradation of Boundary	860 RM	2.4 M HT	New	
14	Demolition and construction of watch towers	112	2 NOS (7.765M HT)		

(Note- *: Work not started)

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

Sr. No.	Proposal	Site Area (m ²)	Remarks	Overall Progress upto 30 th June
1	Front Garden	20674	T- Stretch in front of Palace Building including waterfeatures, pathways and landscape	Work not started
2	<i>Astabal</i> Area	745	Including 3.5m wide footpath and the footprint of <i>Astabal</i> structure (50.2mx 2.4m), Guard hut and toilet block	Work under progress <ul style="list-style-type: none"> • <i>Astabal</i> Plastering work under progress • <i>Astabal</i> Toilet block roof shuttering work under progress.
3	Food Court	1178	Including one toilet block	Work under progress <ul style="list-style-type: none"> • Demolition of existing structure on the site completed. • Food court column work - under progress • At Toilet block, roof shuttering work under progress.
4	Rear Garden	3662	Including existing toilet block	Work not started
5	Parking Area	916	22.4m wide and 39.5 long plot	Work not started
6	Eastern Lake Edge	1114	Approximate 4m wide and 273m long stretch alongeastern lake	Work not started

B. Compliance of Safeguard Loan Covenants

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

17. **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
SCHEDULE 4- Execution of the Project		
Procurement		
Schedule 4, Para 4a	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	Being Complied Sub project works have been commenced after approval of IEE report from state and ADB
Schedule 4, Para 4b	The EA has incorporated the relevant provisions from the EMP into the Works contract.	Being Complied After environmental assessment relevant provisions of EMP attached in the bid document and works contract
Safeguards		
Schedule 4, Para 8	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	Being Complied (a) All applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; shall being complied (b) Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB. EMP implementation work under progress (c) All measures and requirements as prescribed in IEE/EIA and EMP are being considered during implementation. 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.
Human and Financial Resources to Implement Safeguards Requirements		
Schedule 4, Para12.	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	Being Complied Budgetary provisions have been included in EMP

Schedule/Para as per loan agreement	Program Specific Covenants	Status / Issues
	as required, are made available on a timely basis	Environment and Social Nodal officer/ Safeguard Specialist of Program Management Unit & PIUs; Project Management Consultant (PMC); and Independent Consultant (Environment) are in place under the Project.
Safeguards – Related Provisions in Bidding Documents and Works Contracts		
Schedule 4, Para13	The Borrower shall cause the State to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:	Being complied EMP, BOQ line items, reinstatement to pre-project conditions included in the contract agreement
Schedule 4, Para13a	(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;	(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;
Schedule 4, Para13b	(b) make available a budget for all such environmental measures;	(b) IEE indicates budgetary provisions for implementation of EMP
Schedule 4, Para13c	(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;	(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.
Schedule 4, Para13d	(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and	(d) Haul roads will be marked properly (by avoiding residences and agricultural land) before commencement of transportation of materials.
Schedule 4, Para13e	(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	(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
Safeguards Monitoring and Reporting		

Schedule/Para as per loan agreement	Program Specific Covenants	Status / Issues
	shall also include clauses for termination in case of any breach of the stated provisions by the contractors.	HIV / AIDS awareness program has been organized at Ujjayanta project site & Smart Road project. Equal pay for equal work - continued In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken. All activities including awareness program is reflected in "EMR".

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

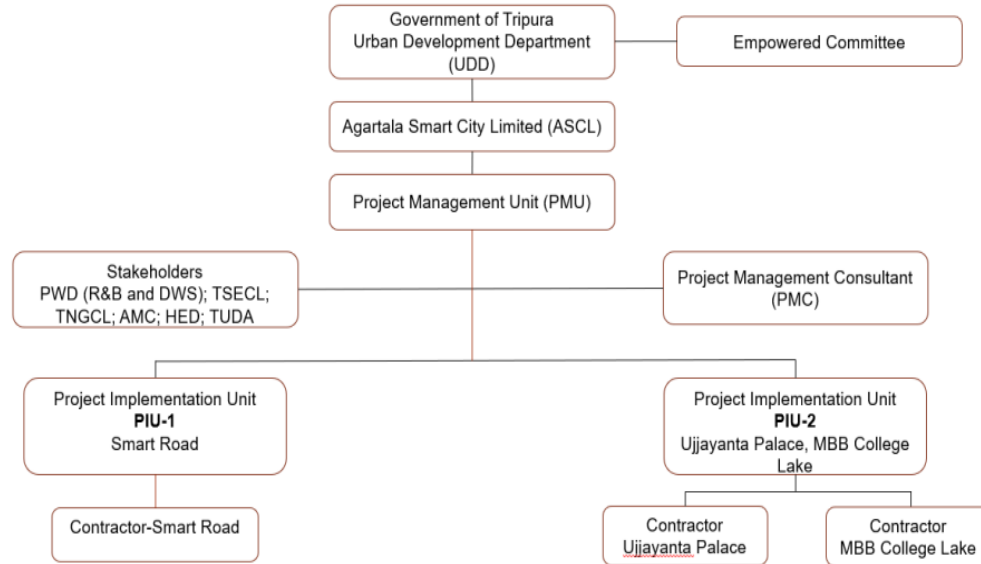
18. A State-Level Empowered Committee (SLEC) is established. The SLEC is chaired by the Chief Secretary, with Principal Secretary of the Power Department & PWD Department, GOT (CEO) is representing as member; Secretary, Urban Development & Tourism Department as Vice-Chairman; Secretary, Finance Department & 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 sub projects 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 engineer's & 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.

19. 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 through 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.

20. 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 Bikram (MBB) College Lake and Ujjayanta Palace.

21. 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:

22. **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.

23. 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:

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

- Review and finalize subproject environmental category;
- Oversee preparation of IEEs; confirm existing IEEs/EMPs are updated based on detailed designs.
- Ensure that EMPs are included in bidding documents and civil works contracts;
- Provide oversight on environmental management aspects of sub projects and ensure EMPs are implemented by PIUs and contractors;
- 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;
- Supervise and provide guidance to the PIUs to properly carry out the environmental monitoring as per the IEE/EMP;
- Review, monitor, and evaluate the effectiveness with which the EMPs are implemented, and recommend corrective actions to be taken as necessary;
- Consolidate monthly environmental monitoring reports from PIUs and submit semi-annual monitoring reports to ADB
- Ensure timely disclosure of final IEEs/EMPs in locations and form accessible to the public; and
- Address any grievances brought about through the grievance redress mechanism in a timely manner.

25. 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:

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

- Coordinate public consultation and information disclosure
- Liaise with local offices of regulatory agencies in obtaining clearances /approvals
- 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
- Ensure continuous public consultation and awareness
- Coordinate grievance redress process and ensure timely actions by all parties
- Review and forward Monthly EMP Monitoring Reports of Contractor to PMU

27. 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.

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

28. **Environment Safeguards Tasks of PMC:** PMC has to assist the 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 environmental 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.
29. PMC will 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;
30. During implementation, contractor team include an Environmental, Health & Safety (EHS) Officer and a Social Supervisor.
31. 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.
32. Safeguard implementation arrangement for the program is shown below.

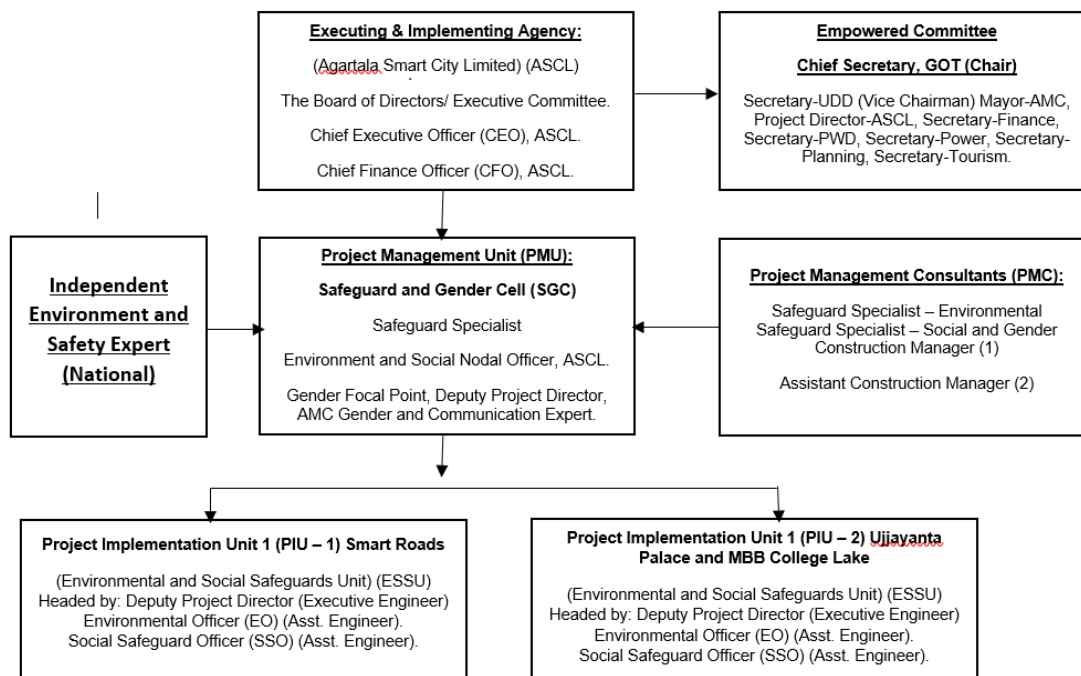


Figure 3: Safeguards Implementation Arrangement

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

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

III. ENVIRONMENTAL ASSESSMENT AND REVIEW PROCEDURE

A. Environmental Legislation and Pollution Control Acts

34. 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 (59 Of 1988)
- o Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989
- 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

35. 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.

36. 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/ Type of clearance	Clearance given by and date	Remarks/ Action needed as per 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 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 For acoustic type of Generator – CTE/ CTO not required CTE received for Hot Mix Plant and Batching Plant (Appendix 4). Obtaining CTO - under progress	Follow up is required for getting CTO at earliest
		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. If any trees are required to cut, the requisite tree cutting permission shall be obtained before cutting of it.	The requisite tree cutting permission shall be obtained.
Agartala	MBB College Lake Revitalisation including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002	Water (Prevention and Control of Pollution) Act. 1974/ The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Also, for setting up hot mix plant, batching plant and use of diesel generator Consent	During implementation of project compliance with Air Act, Noise Rules and Water Act will be required For acoustic type of Generator - not required any CTE/ CTO	Work not started. The requisite CTE and CTO need to be obtained by the civil works contractor.

City	Work (Package No.)	Applicable Legislation/ Type of clearance	Clearance given by and date	Remarks/ Action needed as per NOC
		to Establish (CTE) and Consent to Operate (CTO)	CTE/CTO is required in case of establish of Hot Mix Plant, Crusher & Batching Plant	
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003	Initially 7 nos. tree were proposed for felling but as per construction drawing and confirmatory survey all trees shall be saved. For the package work Forest dept. provide suggestion on protection of wetland (Correspondence attached as Appendix 5)	No tree cutting is required
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/ The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 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 For acoustic type of Generator - not required any CTE/CTO 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. 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 one tree felling is required. Tree felling final completion certificate after felling of one no. tree received from the DFO. (Attached as Appendix 5)	

37. For Smart Road project, Tripura State Electricity Corporation Ltd. (TSECL) given permission for storage and reuse of Electric poles and Transformers. NOC is attached as **Appendix 3.**

38. 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. **Appendix 6** shows the declaration.

39. 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 7** and the guidelines shall be followed during implementation of the Project.

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

A. EMP Compliance Status

40. Field activities have been started for the sub project “Renovation and Restoration of Ujjayanta Palace”. Currently works are ongoing at *Astable* area, food court area and cleaning and preparatory work at rear garden area are also in progress. For Smart Road Package, currently topographic, confirmatory survey is ongoing. The contractor is still in the process of mobilizing resources for “MBB College Lake Revitalization” sub project. Currently, area cleaning and preparatory work is ongoing for Public Zone A, Public Zone B and Palm Walk. Application of EMP is started for all the 3 packages as per final approved IEE report. 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 8G** for Smart Road package. Base line monitoring has been conducted by the contractors for Ujjayanta and MBB College Lake packages. Contractor for Smart Road sub project yet to done the base line environmental monitoring.

41. **Appendix 1** shows sample photo illustration of site activity and EMP implementation during the reporting period.

42. For Renovation and Restoration of Ujjayanta Palace package Labor License obtained, which is valid upto 26.08.2022. Workman Compensation Policy (WC policy) also received for the said package which is valid upto 10.03.2023 and All Risk Policy is valid till 30.06.2025. For Maharaja Bir Bikram (MBB) College Lake Revitalization package Labor License receiving procedure under progress, Workmen compensation policy has been received, which is valid upto 10.03.2023. For Smart Road package Labor License received, which valid till 19.05.2023. Arrangement of WC policy and All Risk Policy under progress. Sample Labor license (for Smart Road) and WC Policy (for Ujjayanta Palace and MBB lake project) are attached in **Appendix 2**.

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

44. Ujjayanta Palace & MBB Lake contractors has submitted Site Specific H & S Plan for COVID-19.

45. Health check-up of workers and tie up with hospital are required for MBB College lake project. Health check-up for workers has been carried out for Ujjayanta Palace and Smart Road project. Sample health check-up report is enclosed in **Appendix 9**.

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"> The contractor shall designate a full-time environment, health and safety (EHS) staff. The EHS staff shall supervise, monitor and report on day-today compliance to requirements related to workers health and safety as specified in applicable laws, rules and regulations and EMP. The ESH staff shall possess are cognized degree or advanced diploma in industrial/construction safety. The ESH staff shall have practical experience in industrial / construction projects for a period of not less than 5year. Submission of updated site-specific environmental management plan (SEMP); including work methodology and spoil management plan Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs. 	For all locations	Contractor	PMC & PMU Environment Specialist	EHS officer is appointed by Mecgale Premier world JV fulfilling mentioned criteria.	
EMP Implementation Training	<ul style="list-style-type: none"> 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&S), core Labor laws, applicable environmental laws, etc. 	For all locations	Contractor	PMC & PMU Environment Specialist	Training given as per requirements.	
Environmental monitoring of	<ul style="list-style-type: none"> Environmental monitoring through NABL approved laboratory. 	For all locations	Contractor	PMC & PMU Environment	Baseline monitoring has	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
baseline conditions of air, noise, water and soil				Specialist	been conducted through NABL certified Lab	
Utilities	<ul style="list-style-type: none"> Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services. 	For all locations	Contractor	PMC & PMU Environment Specialist	Utility shifting is not required	Till end of reporting period, it is not required, whereas the utility shifting location will be identified and action will be taken as per plan to check unintentional interruption of services.
Construction work camps, stockpile areas, storage areas, and disposal areas.	<ul style="list-style-type: none"> 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. Contractor shall arrange potable drinking water for workers in camp. Shall provide adequate number of separate toilets for male and female workers. Contractor shall provide bins for storage of solid waste and hand over the collected solid waste to AMC collection vehicles for processing. Fuel provision shall be made available in camp like LPG so that no tree cutting is involved for fuel wood. Take extreme care 	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 & collected solid waste handed over to AMC collection vehicles.</p>	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>in selecting sites to avoid direct disposal to water body which will inconvenience the community.</p> <ul style="list-style-type: none"> 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. 				<p>LPG used for cooking.</p> <p>Spoil managed as per spoil management plan.</p>	
<p>Consents, permits, clearances, NOCs, etc.</p>	<ul style="list-style-type: none"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to award of civil works. Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	<p>For all locations</p>	<p>Contractor</p>	<p>PMC & PMU Environment Specialist</p>	<p>Prior to start of civil work all necessary permission/ NOC such as for tree felling, for demolition waste disposal land have been obtained from concern authorities. Refer Appendix 2 to 5</p>	

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"> Clearing of vegetation should be strictly as per layout. Clearance area should be marked with highly visible marking. Mark and barricade the work area 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
	<ul style="list-style-type: none"> As the construction work is expected to disrupt visitors of Ujjayanta Palace, notice shall be served well in advance to the Ujjayanta Palace authorities, Tourism department etc., 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
Demolition of existing heritage structures and removal existing pipelines and fixtures of water fountain & channel	<ul style="list-style-type: none"> Regular Water spraying on surfaces and demolition stockpile. Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
	<ul style="list-style-type: none"> Restrict the demolition work only during day time between 6 am to 6 pm. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	At present work not started at specific location	
	<ul style="list-style-type: none"> 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. The old removed pipelines and fixtures shall be stored at the proposed parking layout to avoid contamination of soil. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started. not	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> The debris shall not be disposed on walkways or pathways under any circumstances. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
Excavation of soil for pergolas, pathways, embankment etc.,	<ul style="list-style-type: none"> Water sprinkling on surface of dry areas 	Stockpile area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m from the adjacent Rajbari and Jagannathbari lake waters 		Construction Contractor	PIU PMC & PMU Environment Specialist	Water body work not started	
	<ul style="list-style-type: none"> Restrict the high noise construction work only during day time between 6 am to 6pm. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
Construction of pathways, embankment and pergola with seating arrangements.	<ul style="list-style-type: none"> 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. Water sprinkling shall be done to control dust emission twice a day in dry areas like material stock piles, etc., Stockpiles of raw / waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	
	<ul style="list-style-type: none"> The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction. Contractor shall construct silt fencing at the edges of the Rajbari and Jagannathbari lakes to prevent entry of soil and silt in the lakes. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started not	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Contractor shall ensure that construction 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"> 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. Contractor shall take all necessary measures to prevent any blockage to the water flow. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started	not
	<ul style="list-style-type: none"> Provide prior information to the identified sensitive receptors like MTB High School, Sukanta Academy and Children Park's authorities about the work schedule. 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 & equipment. Provision of ear-plugs to contractors exposed to high noise levels 	Front palace garden and sensitive receptors	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started	not
Handling of Bitumen for road works in front garden area	<ul style="list-style-type: none"> 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. 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work started	not

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Workers at site shall be trained on environmental damages of bitumen on soil and water 					
	<ul style="list-style-type: none"> Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the workers employed in asphalt works. Workers shall be trained before handling of hot bitumen 	Front palace garden	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started during report period	

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"> 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. 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. (Appendix 5). The compensatory plantation cost will be included together with Smart Roads compensatory plantation budget. 	North gate and <i>Astabal</i> area	Construction contractor	PIU PMC & PMU Environment Specialist	Tree cutting NOC received. Tree has been removed by forest department under guidance of AMC.	Compensatory Plantation (1:2) will be done as per Forest Department conditions
Renovation of <i>Astabal</i> and North Gate and	<ul style="list-style-type: none"> Water sprinkling shall be done to control dust emission twice a day in dry areas like stockpiles. Stockpiles of raw/ waste material, demolition debris, excavated earth 	North gate and <i>Astabal</i> area	Construction contractor	PIU PMC & PMU Environment Specialist	GI sheet barricading provided at site	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Construction of Toilets at North Gate	<p>etc., shall be covered with tarpaulin during the entire construction activity.</p> <ul style="list-style-type: none"> Covering of material or waste laden vehicles with tarpaulin and restricting speed limit of vehicles <20 kmph. 				<p>Frequent Water sprinkling is done to ensure least dust pollution due to construction activities.</p> <p>Stockpiles covered with tarpaulin.</p> <p>Waste carrying vehicles moved with tarpaulin and restricting speed limit of vehicles</p>	
	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line 	Connecting road from Thakurpalli road to North gate	Construction contractor	PIU PMC & PMU Environment Specialist	Traffic movement is being managed during the implementation of the Project.	
	<ul style="list-style-type: none"> Contractor shall ensure that no waste disposed of in the Rajbari and Jagannathbari lakes. Contractor shall take all necessary measures to prevent any blockage to the water flow. 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. 	North gate and <i>Astabal</i> area	Construction contractor	PIU PMC & PMU Environment Specialist	No waste has been disposed off in the Rajbari & Jagannathbari Lakes. The waste transferred to AMC DC nagar lunga site as per spoil management plan. Permission obtained for disposal of Solid	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
					<p>and Construction & Demolition (C & D) waste (Appendix 4)</p> <p>Taking all necessary measures to avoid blockage of water flow. 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"> Construction work shall be limited to daylight hours (6 AM to 6 PM) for all the works. Maintain maximum sound levels not exceeding 80 decibels (dB) when measured at 10 m or more from the vehicles & equipment. Provision of earplugs to workers exposed to high noise levels. 	North gate and <i>Astabal</i> area	Construction contractor	PIU PMC & PMU Environment Specialist	<p>Construction work has been done from morning 7 am to evening 6pm</p> <p>The testing of ambient noise levels has been done on January 2022 and results are within permissible limits.</p>	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
					Further, the ear plug has been provided to the construction workers 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"> Provision of tin sheet barricading shall be made for prevention of dust emission out of site. Regular Water spraying on surfaces and demolition stockpile. Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered 	Food Court	Construction contractor	PIU PMC & PMU Environment Specialist	GI sheet barricading provided at site Water spraying done during dry conditions. Debris carrying vehicle covered with tarpaulins & moved as per spoil management and traffic management plan.	
	<ul style="list-style-type: none"> Prevention of noise going out of site. Restrict the demolition work only during day time between 6 am to 6 pm Provide ear plugs to workers exposed to the noise in the site 	Food Court	Construction contractor	PIU PMC & PMU Environment Specialist	The testing of ambient noise levels has been done on January 2022 and results are within permissible limits. Further, the ear plug has been provided to the construction workers at site.	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
					Demolition work carried out within morning 7 am to evening 6 pm.	
	<ul style="list-style-type: none"> 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 	Food Court	Construction contractor	PIU PMC & PMU 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 (Appendix 4)	
	<ul style="list-style-type: none"> The debris shall not be disposed on road, walkways or pathways. 	Food Court	Construction contractor	PIU PMC & PMU Environment Specialist	Debris not disposed on the road, walkway or pathways.	
Excavation of soil for food court structures	<ul style="list-style-type: none"> Restrict the construction work only during day time between 6 am to 6 pm. 	Food Court	Construction contractor	PIU PMC & PMU Environment Specialist	Construction work restricted to only during day time between 7 am to 6 pm.	
	<ul style="list-style-type: none"> Consult with AMC in identifying deep excavation for columns and piles foundations at food court sites. Provide hard barricades and signboards to warn of dangerous conditions 	Food Court	Construction contractor	PIU PMC & PMU Environment Specialist	Before deep excavation on specified location contractor has consulted with AMC. GI sheet barricades and sign boards provided to warn of dangerous conditions.	Improvement of barricading is necessary

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
					Barricading done partly	
Construction works of food kiosks, visitors parking lot, boundary wall etc.,	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move in connecting road. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions. 	Connecting road from Thakurpalli road to North gate	Construction contractor	PIU PMC & PMU Environment Specialist	Traffic movement not restricted, as sufficient space 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"> Clearing of vegetation should be strictly as per layout. Clearance area should be marked with highly visible marking. 	Rear Garden area	Construction contractor	PIU PMC & PMU Environment Specialist	Vegetation cleaned properly and cleared area properly marked.	
	<ul style="list-style-type: none"> The topsoil removed from the rear garden area shall be stored in stock piling area proposed in the parking premises of the proposed plan Site grading and excavation to be undertaken during dry season and top soil to be preserved and relocated after construction activities. Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert. 	Rear Garden area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
Construction of multi activity plaza	<ul style="list-style-type: none"> Alternate day cleaning shall be done for dust particles deposited on the structures of Ujjayanta palace due to 	Rear Garden area	Construction contractor	PIU PMC & PMU Environment	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
and amphitheater	<p>the construction activity for the entire construction period.</p> <ul style="list-style-type: none"> Water sprinkling shall be done to control dust emission twice a day in dry areas like temporary raw material and waste stock piles, Stockpiles of raw/ waste material, demolition debris, excavated earth etc. shall be covered with tarpaulin during the entire construction activity. 			Specialist		
	<ul style="list-style-type: none"> Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works. Provide ear plugs to all workers working in high noise (80 dbA) generating areas. 	Rear Garden area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The vehicles plying construction materials shall not be parked on roads 	Rear Garden area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	

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"> Regular Water spraying on dry surfaces and demolition stockpile. Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Restrict the demolition work only during day time between 6 am to 6 pm and the noise level shall be below <80 dBA so that it should not affect the Agartala Town Library. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Around 36 cum of demolished broken bricks, 5200 kgs of steel and 468 m² 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. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The debris shall not be disposed on adjacent road, walkways or pathways. 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. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
Excavation of soil and Stockpile	<ul style="list-style-type: none"> Water sprinkling on surface of temporary stockpiles Covering of stockpiles with tarpaulins 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m away from the adjacent Rajbari lake water 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated stockpiling area 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby water course. 					
Construction of pathways and Construction of viewing deck and provision of floating jetty	<ul style="list-style-type: none"> Water sprinkling shall be done to control dust emission twice a day in dry areas like stock piles Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction. Contractor shall construct silt fencing at the edge of the lake to prevent entry of soil and silt in lake water. Contractor shall ensure that construction materials containing fine particles are stored in an enclosure such that sediment laden water does not drain into lakes. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> 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. Contractor shall take all necessary measures to prevent any blockage to the water flow. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Construction work shall be limited to day light hours (6 AM to 6 PM) for all the works. Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles & equipment. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Ensure that work is conducted onto edge of the road; allow traffic to move on one line. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions. Construction vehicles shall not be parked on the road after work completion. 	Eastern Lake Edge area	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Provide temporary barricades on the edges of the lakes to prevent fall of workers or public Life jackets shall be provided by the contractor during the construction period at the site 	Eastern Lake development	Construction contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Provide bins at regular intervals for dropping of solid wastes like water bottles, tea cups, empty packets etc., The bins shall be emptied daily, and solid waste shall be handed over to AMC collection staff. The people littering the place shall be fined. 	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"> Clearing of vegetation should be strictly as per layout. Clearance area should be marked with highly visible marking. 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. Compensatory plantation will be done as per Forest Dept. Letter no. F.11-13/WFD/Deptt.0prnt/2018-19/11595-597dated 27-02-2020. The compensatory plantation cost will be included together with Smart Roads compensatory plantation budget. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Tree cutting NOC for 01 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 Appendix 5.	Compensatory plantation (1:2) will be done as per Forest Department conditions.
	<ul style="list-style-type: none"> 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., 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
Demolition of existing structures	<ul style="list-style-type: none"> Regular Water spraying on surfaces and demolition stockpile. Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Restrict the demolition work only during day time between 6 am to 6 pm 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Around 523 cum of demolition debris will be generated in the form of broken bricks, demolished RCC and 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 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Disposal will be at DC Nagar Lunga site of AMC Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> The debris shall not be disposed on road, walkways or pathways. 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. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The vehicles speed shall be adhered to specified limits of 15 Kmph in site to avoid dust generation The vehicles transporting materials and entering site shall have PUC certificates and shall be in good condition. 	Mining area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
Consumption of construction materials	<ul style="list-style-type: none"> Contractor should obtain material from existing mines approved/ licensed by Mines and Geology Department/ Revenue Department. Verify suitability of all material sources and obtain approval of implementing agency Submit a monthly statement of construction material procured 	Mines listed by Tripura Government as specified in the website: http://trpervis.nic.in/test/natural_resources.html	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>indicating material type, source and quantity.</p> <ul style="list-style-type: none"> For new quarry if Environmental Clearance is applicable to be obtained. 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 					
	<ul style="list-style-type: none"> The vehicles shall be maintained properly to reduce the noise. Silencers shall be provided for high noise generating vehicles. 	Mining areas	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
Excavation of soil and Stockpile	<ul style="list-style-type: none"> Water sprinkling on surface of stockpiles Covering of stockpiles with tarpaulins 	Stockpile area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m from the Rajbari and Jagannathbari lake water 	Stockpile area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Restrict the construction work only during day time between 6 am to 6 pm. 	Stockpile area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas as shown in Figure. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. 	Stockpile area	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Prioritize re-use of excess soils and debris in the construction works. 					
	<ul style="list-style-type: none"> Consult with AMC in identifying deep excavation areas on construction sites Provide hard barricades and signboards to warn of dangerous conditions 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
Usage of Construction vehicles and equipment	<ul style="list-style-type: none"> Limit of vehicle speed to 20 kmph within site. Periodical air quality monitoring shall be done during construction phase. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The vehicles shall be maintained regularly. Vehicles and machineries working in premises shall have valid PUC certificate. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The vehicles and equipment shall be maintained properly to reduce the noise. Enclosures and silencers shall be provided for high noise generating equipment. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. The storage area shall in the designated area in the proposed parking lot during the entire construction stage as per the site plan DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Storage of Oil, fuel, lubricants and other hazardous materials	<ul style="list-style-type: none"> Hazardous materials like paints, solvents, fuel and oils shall be stored only when it is necessary The storage locations in premises shall be in the designated area in the proposed parking area as per the site plan Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water bodies. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
Construction works	<ul style="list-style-type: none"> 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. Water sprinkling shall be done to control dust emission twice a day in dry areas like stock piles, roads etc., Stockpiles of raw/ waste material, demolition debris, excavated earth etc. shall be covered with tarpaulin during the entire construction activity. DG sets if used for construction activity shall meet the required emission standards. Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The Contractor shall not excavate bed of the lakes at any location for borrowing earth for embankment construction. Contractor shall construct silt fencing at the edges of Rajbari and 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>Jagannathbari lakes throughout the entire stretch of construction area. The fencing shall be provided prior to commencement of the work.</p> <ul style="list-style-type: none"> Contractor shall ensure that construction 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"> 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. Contractor shall take all necessary measures to prevent any blockage to the water flow. 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 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards. Construction work shall be limited today light hours (6 AM to 6 PM) for all the works. Provide prior information to the identified sensitive receptors about the work schedule; 	Ujjayanta Place Construction premise and sensitive receptor locations	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers the sound impact to surrounding sensitive receptors. Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles& equipment. Provision of ear-plugs to workers exposed to high noise levels. Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body. 					
	<ul style="list-style-type: none"> Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas Avoid disposal of any debris and waste soils in and around the lakes' premises. Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose to DC Nagar Lunga site. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line; In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions; 	Connecting road from Thakurpalli road to North gate	Construction Contractor	PIU PMC & PMU Environment Specialist	Public information boards placed at site.	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> 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 					
	<ul style="list-style-type: none"> Provide temporary barricades on the edges of the lakes to prevent fall of workers or public Lifejackets shall be provided by the contractor during the construction period at the site 	Eastern lake development	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> No material should be stocked insensitive area; material shall be brought to the site as and when required Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles No work should be conducted near the Jagannathbari and Lakshminarayanbari temples during religious congregations. Material transport to the site should be arranged considering Ujjayanta Palace College timings. 	Sensitive areas	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Implement all measures suggested elsewhere in this report - dust and noise control, public safety, traffic management, strictly at these sites. 					
	<ul style="list-style-type: none"> 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. 	Disposal Site	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	
	<ul style="list-style-type: none"> The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place. Contractor shall be penalized for disposal of wastes in private/unauthorized lands or water bodies. 	Disposal Site	Construction Contractor	PIU PMC & PMU Environment Specialist	Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes	<ul style="list-style-type: none"> 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. Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission. Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust. The vehicles carrying wastes shall be checked for their PUC certificate and its fitness. 	Ujjayanta Place Construction premise	Construction Contractor	PIU PMC & PMU Environment Specialist	Work not started	

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"> 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. The EHS staff shall possess a recognized degree or advanced diploma in industrial/construction safety. The EHS staff shall have practical experience in industrial/construction projects for a period of not less than 5 year. Submission of updated EMP/ site specific environmental management plan (SEMP); including work methodology and spoil management plan Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs. 	For all locations	Construction contractor	PIU PMU and PMC's Environment Specialist	<p>EHS officer has mobilized</p> <p>Site Specific EMP submitted. SEMP will be updated after finalization of work methodology Physical work to be started.</p> <p>Baseline monitoring done and report submitted by the contractor.</p>	Updation of SEMP
EMP Implementation Training	<ul style="list-style-type: none"> 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&S), core labor laws, applicable environmental laws, etc. 	For all locations	Construction contractor	PIU PMU and PMC's Environment Specialist	Training given as per requirements. All documents available with contractor, PIU and PMC	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Environmental monitoring of baseline conditions of air, noise, water and soil	<ul style="list-style-type: none"> Environmental monitoring through NABL approved laboratory 	For all locations	Construction contractor	PIU PMU and PMC's Environment Specialist	NABL approved laboratory carried out environmental monitoring	
Utilities	<ul style="list-style-type: none"> Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services. 	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"> Obtain all necessary consents, permits, clearance, NOCs, etc. prior to award of civil works. Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. 	For all locations	Construction contractor	PIU PMU and PMC's safeguard specialist	Prior to civil work all necessary permission/ NOC like disposal of demolition waste etc. be taken from concern authorities. Appendix 4	
Site Clearance activities	<ul style="list-style-type: none"> 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 Environmental Expert of PMC. Clearance area should be marked with highly visible marking. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Clearing of vegetation, marking of area will be done as per guidelines. Regarding retention of trees	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Plantation of 815 trees is a part of MBB lake revitalizations project, all possible care should be taken to ensure retention of these trees. 				all possible care will be taken.	
	<ul style="list-style-type: none"> The topsoil removed from around 13905 m² area shall be stored in areas as shown in Site Plan. Site grading and excavation to be undertaken during dry season and top soil to be preserved and relocated after construction activities. Earthen bund to be provided around the storage areas for excavated soil and other construction material. Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> 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. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Water sprinkling on surface of soil stockpiles. Use tarpaulins to cover sand and other loose material when transported by vehicles 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m from the MBB lake water. Stockpiles should be provided with earthen bunds. 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> 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. 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., 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Prepare a contingency plan to include actions to be done in case of unintentional interruption of services. In case of disruption of water supply, alternative supply through tankers, shall be provided; water may be made available. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Demolition of existing watch tower, refurbishment of structures like cafeteria, gazebos etc.	<ul style="list-style-type: none"> Regular Water spraying on surfaces and demolition stockpile. Vehicles carrying demolition debris from site shall be covered with tarpaulins while entering and leaving the site will always be covered 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Restrict the demolition work only during day time between 8 am to 6 pm 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> 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 	Lake area and demolition sites	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>debris materials at the centralized facility of DC Nagar Lunga site of AMC after necessary permission</p> <ul style="list-style-type: none"> 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. 					
	<ul style="list-style-type: none"> The debris shall not be disposed in walkways or pathways. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> 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. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Relocation of existing Transformer near fisheries department	The relocation of transformer should be done in the presence of TSECL officials. The removed transformed 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	NOC has been obtained (Appendix 3)	
Labor Camp Set up	<ul style="list-style-type: none"> Contractor shall set up toilets with septic tank and soak pit at Labor camp. 	Labor Camp area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Contractor shall provide bins for storage of solid waste and handover the collected solid waste to AMC collection vehicles for processing. 	Labor Camp area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Fuel provision shall be made available in camp like LPG so that no tree cutting is involved for fuel wood. 	Labor Camp area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Contractor shall arrange potable drinking water for workers in camp. Shall provide adequate number of separate toilets for male and female workers. 	Labor Camp area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Consumption of construction materials	<ul style="list-style-type: none"> Contractor should obtain material from existing mines approved/ licensed by Mines and Geology Department/ Revenue Department. Verify suitability of all material sources and obtain approval of implementing agency Submit a monthly statement of construction material procured indicating material type, source and quantity. For new quarry if Environmental Clearance is applicable to be obtained. Adequate safety precautions shall be ensured during transportation of quarry material from quarries to the construction site. Vehicles 	Mines listed by Tripura Government as specified in the website: (http://trpervis.nic.in/test/natural_resources.html)	Construction contractor	PIU and PMU	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	transporting the material shall be covered to prevent spillage					
Excavation of soil and Stockpile	<ul style="list-style-type: none"> Water sprinkling on surface of stockpiles 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m from the MBB lake water 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Restrict the construction work only during day time between 8 am to 6 pm. 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas as shown in image. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. Prioritize re-use of excess soils and debris in the construction works. 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Consult with AMC in identifying deep excavation areas on construction maps Provide hard barricades and sign boards to warn of dangerous conditions 	Stockpile area	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Usage of Construction vehicles and equipment	<ul style="list-style-type: none"> Water sprinkling on Kaccha/ mud roads. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU	Work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Limit of vehicle speed to 20 kmph within site. Periodical air quality monitoring shall be done during construction phase. 			PMU and PMC's safeguard specialist		
	<ul style="list-style-type: none"> The vehicles shall be maintained regularly. Vehicles and machineries working in premises shall have PUC certificate 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> The vehicles and equipment shall be maintained properly to reduce the noise. Enclosures and silencers shall be provided for high noise generating equipment. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. The storage area shall in the designated area as per the site plan. DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Storage of Oil, fuel, lubricants and other hazardous materials	<ul style="list-style-type: none"> Hazardous materials like paints, solvents, fuel and oils shall be stored only when it is necessary The storage locations in premises shall be in the designated area with the storage area as per the site plan. Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water body. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Construction works	<ul style="list-style-type: none"> 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. DG sets if used for construction activity shall meet the required emission standards. Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> The Contractor shall not excavate bed of the MBB lake at any location for borrowing earth for embankment construction. Contractor shall construct silt fencing at the base of the embankment 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. 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 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
	<ul style="list-style-type: none"> Contractor shall ensure that no construction materials like earth, stone, waste disposed off in a manner 	MBB lake	Construction contractor	Environment safeguard officer of PIU	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>that block the flow of water to and from the MBB lake.</p> <ul style="list-style-type: none"> Contractor shall take all necessary measures to prevent any blockage to the water flow. 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. 			PMU and PMC's safeguard specialist		
Construction works	<ul style="list-style-type: none"> All Construction plants and equipment used in construction shall strictly conform to the MOEFCC/CPCB noise standards. Construction work shall be limited to day light hours (6 AM to 6 PM) for all 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. Provide prior information to the identified sensitive receptors about the work schedule; 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; 	Entire MBB lake construction site and sensitive receptor locations	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started Baseline Noise monitoring has been done.	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles & equipment. Provision of ear-plugs to contractors exposed to high noise levels. Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body. 					
Construction works	<ul style="list-style-type: none"> Stockpiling of raw material, waste, demolition debris, excavated earth etc. to be done only in the designated areas. Avoid disposal of any debris and waste soils in and around the MBB lake premise or other forest and nearby water bodies. Coordinate with PIU for beneficial uses of excess excavated soils or immediately dispose off to DC Nagar site 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions; At all work sites public information/ caution boards in English and local language (Bengali) shall be provided - information shall inter-alia include: 	Approach road of MBB College road	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>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"> • Prepare a Traffic Management Plan. 					
	<ul style="list-style-type: none"> • No material should be stocked in sensitive area; material shall be brought to the site as and when required • Conduct work manually with small group of workers and less noise; minimize use of equipment and vehicles • No work should be conducted near the Shiv Mandir during religious congregations. • Material transport to the site should be arranged considering MBB College and Tripura Government College timings. • Notify MBB College and Tripura Government College 2 weeks prior to the work; conduct a 30 minutes 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 • Implement all measures suggested elsewhere in this report - dust and 	Sensitive areas	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	noise control, public safety, traffic management, strictly at these sites.					
	<ul style="list-style-type: none"> • Training of all workers regarding anti-poaching of migratory bird species • Noise levels should be kept minimum • Habitat conservation for feeding and breeding of migratory birds shall be done. • Prevention of pollution of lake either by wastewater or solid waste • Raising awareness within local people through lectures, workshops, informative boards, posters and engaging them in clean up drives. 	Entire MBB lake construction site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	
Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes	<ul style="list-style-type: none"> • 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. • Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission. • Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust. • The vehicles carrying wastes shall be checked for their PUC certificate and its fitness. 	Project area and surroundings	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> • The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass land or water bodies which 	Disposal Site	Construction contractor	Environment safeguard officer of PIU	Construction work not started	

Activity	Environmental Management Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	contaminate the soil and water bodies of Agartala.			PMU and PMC's safeguard specialist		
	<ul style="list-style-type: none"> The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place. Contractor shall be penalized for disposal of wastes in private/unauthorized lands or water bodies. 	Disposal Site	Construction contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Construction work not started	

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 Not yet done shall be conducted in next reporting period	Follow up is required for monitoring
Legal compliance	(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-	PIU/Consultants in coordination of ULB	PMU and PMC's safeguard specialist	Under compliance CTE for batching plant received and valid upto 18.05.2024 Obtaining of CTO - under progress CTE & CTO for C&D waste disposal received (Appendix 4)	Follow up for obtaining CTO

Activity	Environmental Management Measures	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>Tree cutting,- local authority, Storage, handling and transport of hazardous materials-TSPCB, Sand mining, quarries, borrow areas-Department of mines and Geology</p> <p>Traffic diversion/road cutting- local authority, traffic police</p> <p>(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>				
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,</p> <p>(ii) Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services,</p>	Construction Contractor, PIU and Agartala ULB	<p>No cost required.</p> <p>Mitigation measures are part of TOR of PMU, PIU and Consultant</p>	Spoil Management Plan and Traffic Management Plan under process of finalization.	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
	and (iii) Require contractors to prepare spoils management plan and traffic management plan				
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. Mitigation measures are part of TOR of PIU and Consultant	Excavation work to be started. Preparatory work continued	
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; (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; (iii) Do not consider residential areas; (iv) Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the	Contractor to finalize locations in consultation and approval of PIU	PMU and PMC's safeguard specialist	Under Compliance Prioritize areas within or nearest possible vacant space. Hot mix plant under installation at Salbagan with store, office and worker camp Disposal site NOC received 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
	<p>community. (v) For excess spoil disposal, ensure (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; (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.</p>				
Sources of Materials	<p>(i) Prioritize sites already permitted by the Department of Mines and Geology (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</p>	Construction contractor	PMU and PMC's safeguard specialist	Raw material procured through authorized source in compliant with environmental regulations of the country.	

Activity	Environmental Management Measures	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	(iii) If additional quarries will be required after construction is started, inform construction contractor to obtain a written approval from PIU.				

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"> Comply with all national, state and local Labor laws; Following best practice health and safety guidelines: ADB's Interim Advisory Note on COVID – 19, IFC's General EHS Guidelines,¹ WHO Interim Guidance (and its updates) on Water, Sanitation, Hygiene and Waste management for the COVID19 virus), and Sector Specific Guidelines²; Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as: (a) excluding public from the 	All construction sites, Labor camp and storage site	Construction contractor and PIU	PMU and PMC's safeguard specialist	<p>Under compliance</p> <p>Site Specific H & S Plan preparation still under progress</p> <p>Regular Tool box training under progress</p> <p>WC policy received</p> <p>Potable drinking water available at site</p>	Follow up for finalization of H & S plan

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

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

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>site; (b) ensuring all workers are provided with and use Personal Protective Equipment; (c) H&S</p> <ul style="list-style-type: none"> • Training³ for all site personnel; (d) documented procedures to be followed for all site activities; and documentation of work-related accidents; • Strict compliance of H&S plan and requirements of wearing personal protective equipment (PPE) during work hours; • Provide specific guidance for suitable PPE for every on-site work assignment. • Ensure that qualified first-aid is provided at all times. Equipped first-aid stations shall be easily accessible throughout the site; • Provide medical insurance coverage for workers; • Secure all installations from unauthorized intrusion and 				<p>Sign boards for hazardous areas such as energized electrical devices available</p> <p>Ear plug is yet to be provided at construction sites.</p>	<p>Arrangement of ear plugs at construction sites</p>

³ 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.

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>accident risks;</p> <ul style="list-style-type: none"> • Provide supplies of potable drinking water; • Provide clean eating areas where workers are not exposed to hazardous or noxious substances; • Provide H&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; • 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; • Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; • Ensure moving equipment is outfitted with audible back-up alarms; • Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service 					

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with 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"> • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. • Use of hearing protection shall be enforced actively. 					
Community Health and Safety.	<ul style="list-style-type: none"> • Provide barricades in all construction sites, especially near excavations to avoid entry of people specially children. • Ensure that the traffic diversion plans are developed considering high footfall of women, children and elderly like schools, temples etc. • Ensure that no working equipment's should be kept unattended. • Plan material and waste routes to avoid times of peak-pedestrian activities specially time of school in residential areas. 	All construction sites, Labor camp and storage site	Contractor and PIU	PMU and PMC's safeguard specialist	Under compliance Barricades to be provided at all construction sites, Traffic Management Plan not required as no traffic diversion during report period. Transport of material and waste routes planned and movement of vehicle in night only.	Follow up for arrangement of barricades at all sites Finalization of Traffic Management plan as per requirement

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure Provide road signs and flag persons to warn of dangerous 				Road signs and flag persons placed at site to alert vehicle, equipment and locals' movement	
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"> Regular Water spraying on surfaces and demolition stockpile. While entering and leaving the site will always be covered. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Due to rainy season not required. To be complied during dry conditions	
	<ul style="list-style-type: none"> Restrict the demolition work only during day time between 8 am to 6 pm. Identify any buildings at risk from vibration damage and avoiding any use of pneumatic drills or heavy vehicles in the vicinity. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Till date no demolition work under progress.	
	<ul style="list-style-type: none"> 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 	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 Permission obtained for disposal of Solid	Follow up for baseline monitoring Finalization of site specific EMP

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>permission.</p> <ul style="list-style-type: none"> • 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. • 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. • The ESH staff shall possess a recognized degree or advanced diploma in industrial/construction safety. • The ESH staff shall have practical experience in industrial/construction projects for a period of not less than 5 year. • Submission of updated EMP/ site-specific environmental management plan (SEMP); including work 				<p>and Construction & Demolition (C & D) waste (Appendix 4)</p> <p>EHS officer available at site</p> <p>Site specific EMP submitted and under process of finalization.</p> <p>Baseline monitoring not yet done, shall be conducted within next reporting period.</p> <p>Actual Physical work to be started</p>	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>methodology and spoil management plan</p> <ul style="list-style-type: none"> • Timely submission of periodical monitoring reports including documentary evidence on EMP implementation such as photographs.. • Debris generated due to dismantling of the existing road and drains shall be suitably reused in the proposed construction zone. • Entire excavated earth generated shall be reused at site for backfilling. 					
	<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>	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Physical work to be started	
	<ul style="list-style-type: none"> • 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. • Cutting shall not start until the Implementation of the 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	During report period no tree cutting has been done. As per construction design and confirmatory survey tree shall be saved and remaining Tree shall be cut after receiving of final	Follow up with forest dept. in case of tree felling NOC

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>project on the location of cutting is confirmed.</p> <ul style="list-style-type: none"> No additional trees other than identified shall be cut. 				NOC from DFO office	
	<p>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.</p>	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Physical work to be started	
	<ul style="list-style-type: none"> 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. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Physical work to be started	
Removal / Relocation of Transformers in 15 roads	<ul style="list-style-type: none"> There will be requirement of removal of around 225 transformers in all the 15 road stretches. The relocation of transformer should be done in the presence of TSECL officials. The removed transformed should be immediately transported to the storage 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Shifting not started NOC obtained from TSECL for removal and transportation of Transformer (Appendix 3)	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>site of TSECL until further installation/ reuse.</p> <ul style="list-style-type: none"> All precautionary measures shall be taken to avoid leakage of oil. 					
Labor Camp Set up	Contractor shall set up toilets with septic tank and soak pit at Labor camp.	Labor Camp area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Complied as per requirement	
	<ul style="list-style-type: none"> Contractor shall provide bins for storage of solid waste and handover the collected solid waste to AMC collection vehicles for processing. The burning of waste or any other materials shall be strictly prohibited and informed to workers on this. 	Labor Camp area	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 cutting is involved for fuel wood.	Labor Camp area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Complied as per requirement	
	<ul style="list-style-type: none"> Contractor shall arrange potable drinking water for workers in camp. Shall provide adequate number of separate toilets for male and female workers. 	Labor Camp area	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"> Contractor should obtain material from existing mines approved/licensed by Mines 	Mines listed by Tripura Government as	Construction Contractor	Environment safeguard officer of PIU	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>and Geology Department/ Revenue Department.</p> <ul style="list-style-type: none"> Verify suitability of all material sources and obtain approval of implementing agency. Submit a monthly statement of construction material procured indicating material type, source and quantity. For new quarry if Environmental Clearance is applicable to be obtained. 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. 	<p>specified in the website: http://trpenvi.s.nic.in/test/natural_resources.html</p>		PMU and PMC's safeguard specialist		
	<ul style="list-style-type: none"> The vehicles speed shall be adhered to specified limits of 15 Kmph in site to avoid dust generation. The vehicles transporting materials and entering site shall have PUC certificates and shall be in good condition. 	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"> The vehicles shall be maintained properly to reduce the noise. Silencers shall be provided for high noise generating vehicles. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Vehicle movement and diversion of traffic	<ul style="list-style-type: none"> Road specific Traffic management plan should be prepared in consultation with the traffic police/ department during construction. The plan should be such that there will be minimum affect to the commercial operations of shops and establishments without hindering the their business and incoming customers. Owners / occupants of commercial establishments should be consulted before development of traffic plan. Sample traffic management plan attached with the IEE shall be used as guideline/ reference. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	When Traffic diversion is required, Road specific Traffic management plan will 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	Work not started	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m away from the 1. Buri's pukur, 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	2. Melarmath pukur, 3. Amiyasagar, 4. Shanti sagar pond 5 Kumar pukur situated along the HGB Road.			PMU and PMC's safeguard specialist		
	<ul style="list-style-type: none"> Restrict the excavation work only during day time between 8 am to 6 pm. DG sets and other noise generating equipment shall be provided with acoustic enclosures. Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Excavation works only daytime Green DG set available at Labor Camp Till date no work near any building area.	
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. Prioritize re-use of excess soils and debris in the construction works. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Excavated earth to be stored near the designated areas and will mostly use for refilling	
	<ul style="list-style-type: none"> Consult with AMC in identifying deep excavation areas on construction maps. Provide shoring, hard barricades and sign 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Permanent barricade with sign boards needs to be arranged along with Danger signage – at	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	boards to warn of dangerous conditions.				excavated area/ work site Work to be started	
	<ul style="list-style-type: none"> • The contractor shall provide prior intimation (min 7 days before start of work) to commercial establishments along the road stretches. • The work schedule for the commercial roads shall be planned in consultation with the AMC and commercial establishments' owners. • 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. • The Contractor shall provide safe and convenient passage temporarily for vehicles, customers and occupants to and from roadsides commercial establishments. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> The Contractor shall also ensure that the existing accesses shall not be dismantled without providing adequate provisions. 					
	<ul style="list-style-type: none"> The dumping of excavated earth and construction material shall not be haphazard way which can obstruct the parking space create traffic problem. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Excavation not started	
	<ul style="list-style-type: none"> Utilities like water supply and power supply shall be restored immediately to facilitate day to day business of shops and commercial establishments. Existing underground utilities shall be relocated and realigned if disturbed. Replace and reconnect utilities without disrupting the commercial activities in the shops and 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>establishments.</p> <ul style="list-style-type: none"> 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. 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. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Usage of Construction vehicles and equipment	<ul style="list-style-type: none"> Special care shall be taken near 1. Government Ayurvedic Hospital in HGB Road 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU	Work not started Baseline monitoring yet not	Follow up for baseline monitoring

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>2. IGM hospitals on Akhaura Road and</p> <p>3. Agartala Nursing Home along Matabari Road.</p> <p>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.</p> <ul style="list-style-type: none"> • Provide information to identified sensitive receptors about the work schedule. • Water sprinkling on Kaccha/ mudroads. • Limit of vehicle speed to 15 kmph. • Periodical air quality monitoring shall be done during construction and operation phase. 			PMU and PMC's safeguard specialist	done shall be conducted next reporting period. Instruction has been given for immediate attention.	
	<ul style="list-style-type: none"> • The vehicles shall be maintained regularly <p>Vehicles and machineries working in premises shall have PUC certificate.</p>	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"> • No high noise generating (>85 dB) activities shall be carried out and night time activities shall be strictly prohibited near 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>Hospitals like Government Ayurvedic Hospital, Devlok Hospital, IGM hospital etc.</p> <ul style="list-style-type: none"> • Maintain maximum sound level of 80 dB when measured at 10 m from the equipment. • The vehicles and equipment shall be maintained properly to reduce the noise. • DG sets and other noise generating equipment shall be provided with acoustic enclosures. • Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration. • Noise barriers shall be installed at sensitive receptors viz., Government Ayurvedic Hospital and Kamini Kumar Singha School along HGB Road and IGM Hospital building towards Akhaura Road to reduce the noise generation during operation stage. 			PMU and PMC's safeguard specialist	Green DG Set available at labor camp site	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	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 on concrete platforms at labor camp site	
Construction works	<ul style="list-style-type: none"> Water sprinkling shall be done to control dust emission twice a day in dry areas like stock piles, roads etc., Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity. DG sets if used for construction activity shall meet the required emission standards. 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. Periodic Air quality monitoring shall be done 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	<p>Water Sprinkling not required in this period</p> <p>Green DG Set available at site All construction related plants sited sufficiently away from human habitations and occupancies Baseline Air quality monitoring yet not done by the contractor. Shall be conducted within next reporting period</p>	Follow up for baseline monitoring

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>at selected locations to check the impact of developmental activity</p>					
	<ul style="list-style-type: none"> Commercial roads also have around 5 waterbodies within 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 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 along the roads. 	<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>Work not started</p>	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> • 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. • Contractor shall take all necessary measures to prevent any blockage to the water flow. • 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 area. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> • All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards. • 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 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>the night time between 6.00 pm to 6.00 am.</p> <ul style="list-style-type: none"> • Provide prior information to the identified sensitive receptors about the work schedule. • 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. • Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles & equipment. • Provision of ear-plugs to workers exposed to high noise levels. • Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body. 					

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> 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., Coordinate with PIU for beneficial uses of excess excavated soils or immediately disposed to DC Nagar Lunga site. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions. At all work sites public 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>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.</p>					
	<ul style="list-style-type: none"> No material should be stocked insensitive area; material shall be brought to the site as and when required. 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. No work should be conducted near the 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>temples along the road during religious congregations.</p> <ul style="list-style-type: none"> Implement all measures suggested elsewhere in this report – dust and noise control, public safety, traffic management, strictly at these sites. 					
	<ul style="list-style-type: none"> 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. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Handling of Bitumen for roadworks	<ul style="list-style-type: none"> 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. Workers at site shall be 	All along the road stretches	Contractor EHS and Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>trained on environmental damages of bitumen on soil and water.</p> <ul style="list-style-type: none"> Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the workers employed in asphalt works. Workers shall be trained before handling of hot bitumen. 	All along the road stretches	Contractor EHS and Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes, drain silt	<ul style="list-style-type: none"> Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission. Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust. The vehicles carrying wastes shall be checked for their PUC certificate and its fitness. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started PUCs of all vehicles available at site	
	<ul style="list-style-type: none"> The surplus excavated earth and other construction wastes shall not be dumped on any agricultural land, grass land or water bodies which contaminate the 	Disposal Site	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Surplus earth not yet generated	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	soil and water bodies of Agartala.					
	<ul style="list-style-type: none"> The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place. Contractor shall be penalized for disposal of wastes in private/ unauthorized lands or water bodies. 	Disposal Site	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Waste not yet generated. Instruction given to contractor.	

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"> Provide information to identified sensitive receptors 1. Umakanta Academy English Medium School, Birchandra State Central Library along Akhaura Road 2. Kshudiram English Medium School on Jail Road, 3. Hindi HS School, Nirmala Shishu Vihar and Sri Krishna Mission School along VIP Road, 4. GB Hospital on BG Road 5. Barjala Higher 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>Secondary School, Apnagar Old-age Home along Barjala Road</p> <p>6. Womens ITI College along ITI Road about the work schedule.</p> <ul style="list-style-type: none"> Water sprinkling on surface of stockpiles to avoid dust emission. 					
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m away from the waterbodies viz., <ol style="list-style-type: none"> Jagannathbari pond, Rjabari pond and Banmalipur dighi along Thakurpalli Road Rani Pukur along VIP Road Jora pond, Abhoynagar pond, Ranir Tila along GB Road Bhodjung pond along Jail Ashrma Road. Measures like covering the stockpiles so that the sediment laden water shall not enter the watercourse and contaminate these waterbodies due to excavation activities. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> The excavation activity shall be restricted to day time from 8AM to 6PM to avoid causing disturbance to residents. Night time work with permissible 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started Green DG set available at Labor Camp site	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>noise level.</p> <ul style="list-style-type: none"> Maintain maximum sound level of 80 dB when measured at 10 m from the equipment. DG sets and other noise generating equipment shall be provided with acoustic enclosures. Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration. 					
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. Prioritize re-use of excess soils and debris in the construction works. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> The drains and deep excavation sites shall be barricaded to avoid entry of children and general public. Sign boards to warn of dangerous conditions. Consult with AMC in identifying deep excavation areas on 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Partial barricade arranged	Permanent Barricading to be arranged Sign Board needs to be placed

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>construction maps</p> <ul style="list-style-type: none"> 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). The dumping of excavated earth and construction material shall not be haphazard way which can obstruct the parking space create traffic problem. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> The contractor shall provide prior intimation to the occupants of the commercial establishments and residences on excavation for the project. The Contractor shall provide safe and convenient passage temporarily for vehicles, customers and occupants to and from roadsides commercial establishments. The Contractor shall also ensure that the existing accesses shall not be dismantled without providing adequate provisions. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> 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. Replace and reconnect utilities without disrupting the commercial activities in the shops and establishments. Existing underground utilities shall be relocated and realigned if disturbed. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> 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. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Usage of Construction vehicles and equipment	<ul style="list-style-type: none"> Water sprinkling on Kaccha/ mudroads. Limit of vehicle speed to 20 kmph within site. Periodical air quality monitoring shall be done during construction and operation phase. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started. Air quality monitoring not yet done. Shall be conducted within next reporting period.	Instruction has been given to contractor for immediate carry out base line monitoring

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> The contractor shall not set up concrete mixers and hot mixers in the 100 m periphery of the habitations. The vehicles shall be maintained regularly. Vehicles and machineries working in premises shall have PUC certificate. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> The vehicles and equipment shall be maintained properly to reduce the noise. DG sets and other noise generating equipment shall be provided with acoustic enclosures. Avoiding usage of pneumatic drills or heavy vehicles in the vicinity of fragile buildings to reduce vibration. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	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 Labor Camp site area DG sets, oil/ fuel consuming equipment placed in concrete platforms at Camp site	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
Construction work	<ul style="list-style-type: none"> Water sprinkling shall be done to control dust emission twice a day in dry areas like stock piles, roads etc., Stockpiles of raw/ waste material, demolition debris, excavated earth etc., shall be covered with tarpaulin during the entire construction activity. DG sets if used for construction activity shall meet the required emission standards. 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. Periodic Air quality monitoring shall be done at selected locations to check the impact of developmental activity 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	<p>Work yet to start. Till date not required</p> <p>Green DG sets installed at camp and store, which meets the required emission standards</p> <p>All construction plants sited sufficiently away from human habitations and occupancies. Periodic Air quality (base line & during construction) monitoring yet not started by the contractor</p>	Baseline air quality monitoring needs to be done immediately- follow up is required
	<ul style="list-style-type: none"> 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., 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	Rajbari lake, Jagannath bari lake and Banmalipur dighi along Thakurpalli road, Ranipukur along VIP road.					
	<ul style="list-style-type: none"> 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. Contractor shall take all necessary measures to prevent any blockage to the water flow. 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 area. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> All Construction plants and equipment used in construction shall strictly conform to the MoEFCC/ CPCB noise standards. 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 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started Periodic ambient noise level monitoring yet not done. Shall be conducted next reporting period.	Baseline noise level monitoring needs to be done immediately- follow up is required

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>generation equipment shall be stopped during the night time between 6.00 pm to 6.00 am.</p> <ul style="list-style-type: none"> • Provide prior information to the identified sensitive receptors about the work schedule. • 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. • Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at 10 m or more from the vehicles & equipment. • Provision of ear-plugs to workers exposed to high noise levels. • Periodic Noise monitoring shall be done at selected locations to check the impact of developmental activity on water body. 					
	<ul style="list-style-type: none"> • Stockpiling of raw material, waste, demolition debris, excavated earth 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU	Permission obtained for disposal of Solid	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>etc. to be done only in the designated areas.</p> <ul style="list-style-type: none"> Avoid disposal of any debris and waste soils in and around the water bodies or near sensitive areas like hospitals, school etc., Coordinate with PIU for beneficial uses of excess excavated soils or immediately disposed to DC Nagar Lunga site. 			PMU and PMC's safeguard specialist	and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> Do not close the road completely, ensure that work is conducted onto edge of the road; allow traffic to move on one line. In unavoidable circumstances of road closure, provide alternative routes, and ensure that public is informed about such traffic diversions. 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 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started Work sites public information/ caution boards in English and local language (Bengali) to be provided completely.	Immediate arrangement of work site display board

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>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"> • Prepare a Traffic Management Plan. 					
	<ul style="list-style-type: none"> • No material should be stocked in sensitive area; material shall be brought to the site as and when required. • 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. • No work should be conducted 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, strictly at these sites. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<ul style="list-style-type: none"> 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. 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Handling of Bitumen for road works	<ul style="list-style-type: none"> 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. Workers at site shall be trained on environmental damages of bitumen on soil and water. 	All along the road stretches	Contractor officer Construction Contractor	EHS and Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> Protective footwear, protective goggles, hand gloves and nose masks to be provided compulsorily to the workers employed in asphalt works. Workers shall be trained before handling of hot 	All along the road stretches	Contractor officer Construction Contractor	EHS and Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	bitumen.					
Storage, handling and disposal of surplus excavated earth, Demolition Debris, construction wastes, drain silt	<ul style="list-style-type: none"> • Around 95,000 cum of surplus excavated earth, 18,000 cum of demolition debris, 5000 cum of drain silt shall be disposed of in DC Nagar Lunga AMC dump site. • Before loading the wastes into vehicles, the stockpiles shall be water sprinkled to reduce the dust emission. • Transportation vehicles carrying waste materials shall be covered with tarpaulin to avoid emission of finer particles and dust. • The vehicles carrying wastes shall be checked for their PUC certificate and its fitness. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> • 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. 	Disposal Site	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Permission obtained for disposal of Solid and Construction & Demolition (C & D) waste (Appendix 4)	
	<ul style="list-style-type: none"> • The wastes shall not be disposed on road sides of city or anywhere which degrades the aesthetics of the place. • Contractor shall be 	Disposal Site	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start. Instruction has been given to contractor for necessary compliance	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	penalized for disposal of wastes in private/ unauthorized lands or water bodies.					

Table 8E: Construction Stage Compliance of Environment Management Plan for Ponds/ Water bodies 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"> Stockpiles shall be at least 5 m away from the waterbodies <ol style="list-style-type: none"> Buri's pukur, Melarmath pukur, Amiyasagar, Shanti sagar pond, Kumar pukkur along HGB road, Jagannathbari pond, Rjabari pond and Banmalipur dighi along Thakurpalli Road Rani Pukur along VIP Road Jora pond, Abhoynagar pond, Ranir Tila along GB Road Bhodjung pond along Jail Ashram Road Measures like covering the stockpiles so that the sediment laden water shall not enter the watercourse and contaminate these 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start near pond/ water body	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	waterbodies due to excavation activities.					
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. Prioritize re-use of excess soils and debris in the construction works. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start near pond/ water body	
Construction Works	<ul style="list-style-type: none"> 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. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start near pond/ water body	
	<ul style="list-style-type: none"> 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. Contractor shall take all 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start near pond/ water body	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	<p>necessary measures to prevent any blockage to the water flow.</p> <ul style="list-style-type: none"> 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. 					
Usage of construction vehicles and equipment	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	All along the road stretches	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work yet to start near pond/ water body	

Table 8F: Construction Stage Compliance of Environment Management Plan for Labor 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"> Contractor shall set up toilets with septic tank and soak pit at Labor camp. 	Labor Camp	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Complied	
	<ul style="list-style-type: none"> Contractor shall provide bins for storage of solid waste and hand over the 	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	

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

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 make arrangements 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 PMU and PMC's safeguard specialist	Material procurement has been started in compliant with environmental regulations of the country.	
	<ul style="list-style-type: none"> Stockpiles shall be at least 5 m away from the waterbodies. Entire premises shall be barricaded to prevent outflow of material along with runoff. 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	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 PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> Excavated earth shall be stored in designated areas as shown in image. Excavated earth stockpile shall be covered so that sediment laden water does not drain into nearby watercourse. Prioritize re-use of 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	excess soils and debris in the construction works.					
	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 PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> 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. 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
	<ul style="list-style-type: none"> 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. Contractor shall take all necessary measures to prevent any blockage to the water flow. Contractor shall 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

Activity	Mitigation Measures	Approximate Location	Responsible for Implementation	Responsible for Supervision	Status	Follow up if any
	follow the instructions of ASCL and PIU on easy flow of water.					
Storage of Oil, fuel, lubricants and other hazardous materials	<ul style="list-style-type: none"> Hazardous materials like paints, solvents, fuel and oils shall be stored only when it is necessary The storage shall be in the designated area and on concrete platforms. Periodic Water quality monitoring shall be done to check the impact of leakage/ spillage on water body. 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Parking and Storage of Constructon vehicles and equipment	<ul style="list-style-type: none"> Fuel, oil, lubricants and other chemicals shall be stored on concrete platforms. DG sets, oil/ fuel consuming equipment shall be placed in concrete platforms. 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	
Material and Human Safety	<ul style="list-style-type: none"> The storage site shall be barricaded to prevent runoff of raw materials and entry of unauthorized personnel including children. 	Storage/ Stockpile area	Construction Contractor	Environment safeguard officer of PIU PMU and PMC's safeguard specialist	Work not started	

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 of time 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. Base line air quality monitoring was carried out for Ujjayanta Palace project during 2nd to 5th January 2022 at different sites. Value of all air quality parameters PM₁₀, SO₂ and NO₂ was within the standard levels. **Table 9** shows base line ambient monitoring result for Ujjayanta palace project.

Table 9: Base line 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 ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO (8Hrs) mg/m ³	Pb µg/m ³
		CPCB standard 100	CPCB standard 80	CPCB standard 80	CPCB standard 2	CPCB standard 1
	Ujjayanta Palace					
AQ1	Town Hall/ 02.01.2022- 03.01.2022	89.1	7.8	25.4	0.16	<0.01
AQ2	MTB School/ 02.01.2022- 03.01.2022	97.4	7.6	24.2	0.14	<0.01
AQ3	Women's College/ 04.01.2022- 05.01.2022	86.8	7.9	26.6	0.17	<0.01
AQ4	Central Garden/ 04.01.2022- 05.01.2022	84.2	7.8	24.7	0.16	<0.01

(Note. Monitoring done under project)

40. 24 Hrs Base line air quality monitoring was carried out also for MBB Lake project during 6th to 11th January 2022 at different sites of the project areas. Results of air quality monitoring are shown in **Table 10** below. Values of all parameters are within the standard, except level of PM₁₀ at one location (IGNOU Regional Center) where concentration exceed the standard.

Table 10: Base line Ambient Air Quality Monitoring data at working sites, MBB College site

Status of Ambient Air Quality						
S. No	Site name/ Date of Monitoring	Air pollutants			CO (8Hrs) mg/m ³	Pb µg/m ³
		PM ₁₀ µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³		
		CPCB standard 100	CPCB standard 80	CPCB standard 80		
	MBB College					
AQ1	Staff Quarter/ 06.01.2022- 07.01.2022	86.7	6.7	26.5	0.14	<0.01
AQ2	Fisheries Department/ 06.01.2022- 07.01.2022	96.6	7.6	24.7	0.18	<0.01
AQ3	BBMC College/ 08.01.2022 – 09.01.2022	98.5	7.1	28.8	0.15	<0.01
AQ4	Old Science Building/ 08.01.2022 – 09.01.2022	76.2	6.6	26.4	0.14	<0.01
AQ5	IGNOU Regional Center/ 10.01.2022- 11.01.2022	106.4	7,8	27.2	0.18	<0.01

(Note: Monitoring done under the project)

41. Noise level “baseline monitoring” has been conducted (2nd to 5th January 2022) covering all working locations of Ujjayanta Palace. The measured noise levels are given below. Noise levels was within the standard except 2 locations during day time. Local activity is the reason of higher base line noise level. The baseline ambient noise levels data is presented in **Table 11**.

Table 11: Baseline Ambient Noise Levels Data at Project Location Sites and Surroundings (Ujjayanta Palace)

Sr. No.	Monitoring Locations	Noise Level in dB (A)			
		Day Time 6 AM- 10 PM		Night Time 10 PM—6 AM	
		Leq in dB(A)	Standard (dB(A))	Leq in dB(A)	Standard (dB(A))
1	Town Hall	70.12	65	48.35	55

Sr. No.	Monitoring Locations	Noise Level in dB (A)			
		Day Time 6 AM- 10 PM		Night Time 10 PM—6 AM	
		Leq in dB(A)	Standard (dB(A))	Leq in dB(A)	Standard (dB(A))
2	MTB School	69.33	65	50.39	55
3	Women's College	63.39	65	44.36	55
4	Central Garden	64.34	65	43.12	55

(project data, Date of sampling:02.01.2022 to 05.01.2022)

42. Noise level “baseline monitoring” was conducted between 6th and 10th January 2022 at proposed working and surrounding locations of MBB College Lake. The measured noise levels values are provided in **Table 12** below. Noise levels are more or less within the standard.

Table 12: Baseline Ambient Noise Levels Monitoring Data at Project Location Sites and Surroundings (MBB Lake)

Sr. No.	Monitoring Locations	Noise Level in dB (A)			
		Day Time 6 AM- 10 PM		Night Time 10 PM—6 AM	
		Leq in dB(A)	Standard (dB(A))	Leq in dB(A)	Standard (dB(A))
N1	MBB Main entrance Opposite Road	60.02	65	44.66	55
N2	Lake View Cafeteria	61.14	65	45.24	55
N3	IGNOU back side staff quarter	58.17	65	43.16	55
N4	MBB College Lake side	65.28	65	47.76	55
N5	BBMC Admin Block back side	62.46	65	44.18	55

(project data, Date of sampling:06.01.2022 to 10.01.2022)

43. For base line data generation, Surface water sample at Ujjayanta Palace project site have been collected on 05.01.2022 by NABL Lab and analysed. Water Testing result is shown in **Table 13**. Concentration of BOD and total coliform count exceed the standard for Class B.

44. For base line data generation, Surface water sample at MBB Lake project site have been collected from 09.01.2022 to 11.01.2022 by NABL Lab and analysed. Results are depicted in **Table 14** below. Concentration of BOD and total coliform count exceed the standard for Class B.

Table 13: Physico-chemical, chemical & biological analyses Data of Surface water (Ujjayanta Palace project)

S. No	Parameters	Location		Standard- IS 2296	
		SW1 Eastern Lake	SW2 Western Lake	Class - B	Class - D
1	Temperature(°C)	21	20.5	-	-
2	pH	6.39	6.45	6.5- 8.5	6.5 -8.5
3	Conductivity (µmhos/cm)	188	192	-	1000
4	Turbidity (NTU)	2	2	-	-
5	Total Dissolved Solid(mg/l)	118	120	-	-
6	Total Suspended Solid(mg/l)	16.6	17	-	-
7	Total Hardness(mg/l)	24.75	25.74	-	-
8	Dissolved Oxygen(mg/l)	6.8	7.0	5 (min)	4 (min)
9	BOD mg/l)	10	11	3	-
10	COD (mg/l)	63.56	67.19	-	-
11	Oil & Grease(mg/l)	BDL	BDL	-	0.1
12	Total Kjeldahl Nitrogen(mg/l)	3.6	3.69	-	-
13	Chloride(mg/l)	23.96	25.81	-	-
14	Sulphate(mg/l)	12	13.6	-	-
15	Nitrate (mg/l)	2.83	2.76	-	-
16	Alkalinity(mg/l)	22.8	26.6	-	-
17	Bi-Carbonate(mg/l)	27.82	32.45	-	-
18	Phosphate(mg/l)	0.85	0.86	-	-
19	Calcium(mg/l)	5.95	6.15	-	-
20	Magnesium(mg/l)	2.38	2.49	-	-
21	Sodium(mg/l)	18	19	-	-
22	Manganese(mg/l)	<1.0	<1.0	-	-
23	Zinc(mg/l)	0.09	0.09	-	-
24	Iron(mg/l)	1.43	1.48	-	-
25	Cadmium (mg/l)	<0.001	<0.001	-	-
26	Copper (mg/l)	<0.04	<0.04	-	-
27	Nickel (mg/l)	<1.0	<1.0	-	-
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)	14.93	14.98	-	-
33	Hexavalent Chromium(mg/l)	<1.0	<1.0	1.0	-
34	Total Coliform (CFU/100ml)	2.5 x 10 ³	2.6 x 10 ³	500	-
35	Fecal Coliform (CFU/100l)	1.2 x 10 ³	1.2 x 10 ³	-	-

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

Table 14: Physico-chemical, chemical & biological analyses Data of Surface water (MBB College Lake)

S. No	Parameters	Location			Desirable Limit IS 2296	
		SW1 Bathing Ghat	SW2 MBB Main Entrance Pond	SW3 PWD and NCC College in between Entrance Lake	Class- B	Class - D
1	Temperature(OC)	20.5	20	21	-	-
2	pH	6.68	6.51	6.91	6.5- 8.5	6.5 -8.5
3	Conductivity (µmhos/cm)	1193	348	150	-	1000
4	Turbidity(NTU)	2.21	2.1	2.4	-	-
5	Total Dissolved Solid(mg/l)	759	221	96	-	-
6	Total Suspended Solid(mg/l)	21.8	22.0	15.4	-	-
7	Total Hardness(mg/l)	249.48	75.24	27.72	-	-
8	Dissolved Oxygen(mg/l)	6.5	7.0	7.3	5 (min)	4 (min)
9	BOD(mg/l)	23.0	9.0	8.0	3	-
10	COD(mg/l)	136.2	45.4	36.32	-	-
11	Oil & Grease(mg/l)	BDL	BDL	BDL	-	0.1
12	Total Kjeldahl Nitrogen(mg/l)	6.38	3.5	3.2	-	-
13	Chloride(mg/l)	151.16	23.96	22.12	-	-
14	Sulphate(mg/l)	22.8	12.2	8.0	-	-
15	Nitrate	9.89	3.63	3.2	-	-
16	Alkalinity(mg/l)	106.4	64.6	19.0	-	-
17	Bi-Carbonate(mg/l)	129.81	78.81	23.18	-	-
18	Phosphate(mg/l)	2.2	0.89	0.75	-	-
19	Calcium(mg/l)	52.38	15.87	6.35	-	-
20	Magnesium(mg/l)	28.51	8.55	2.85	-	-
21	Sodium(mg/l)	58	21	12.8	-	-
22	Manganese(mg/l)	<1.0	<1.0	<1.0	-	-
23	Zinc(mg/l)	0.9	0.8	0.8	-	-
24	Iron(mg/l)	2.21	1.69	1.12	-	-
25	Cadmium (mg/l)	<0.001	<0.001	<0.001	-	-
26	Copper (mg/l)	<0.04	<0.04	<0.04	-	-
27	Nickel (mg/l)	<1.0	<1.0	<1.0	-	-
28	Lead (mg/l)	<0.05	<0.05	<0.05	-	-
29	Mercury (mg/l)	<0.001	<0.001	<0.001	-	-
30	Total Chromium(mg/l)	<0.02	<0.02	<0.02	-	-
31	Arsenic (mg/l)	<0.01	<0.01	<0.01	0.2	-
32	Silica (mg/l)	9.2	5.54	2.2	-	-
33	Hexavalent Chromium(mg/l)	<1.0	<1.0	<1.0	1.0	-
34	Total Coliform(CFU/100ml)	1.9 x 10 ³	1.7 x 10 ³	1.1 x 10 ³	500	-

S. No	Parameters	Location			Desirable Limit IS 2296	
		SW1 Bathing Ghat	SW2 MBB Main Entrance Pond	SW3 PWD and NCC College in between Entrance Lake	Class- B	Class - D
35	Fecal Coliform (CFU/100ml)	1.3 x 10 ³	1.1 x 10 ³	9.0 x 10 ²	-	-

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

45. Baseline Ground water sampling at Ujjayanta Palace project site have been done on 07.01.2022 by NABL Lab. Results are depicted in **Table 15**. Concentration of parameters for ground water are within the prescribed standard except Turbidity and Iron concentration. Both parameters exceed maximum permissible limit.

46. Ground water sampling for generation of base line data at MBB Lake site have been done on 07.01.2022 by NABL Lab. Results are shown in **Table 16**. Concentration of parameters for ground water are within the prescribed standard except Turbidity and Iron concentration. Both parameters exceed maximum permissible limit.

Table 15: Physico-chemical, chemical & biological analyses Data of Ground water (Ujjayanta palace)

S. No	Parameters	Location		Acceptable Limit IS 10500-2012	Permissible Limit IS 10500-2012
		GW-1 Women's College Ground	GW-2 Town Hall		
Physical Parameters					
1	Odour (TON)	2.0	2.0	Agreeable	Agreeable
2	Colour in hazen Unit	3.0	2.0	5	15
3	Test	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	7.0	9.0	1.0	5.0
5	Total Dissolved Solid (mg/l)	282.0	275.0	500	2000
6	pH	6.62	6.80	6.5-8.5	No Relaxation
Chemical Parameters					
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)	0.46	0.53	0.5	1.0
6	Calcium (mg/l)	17.46	19.05	75.0	200.0
7	Chloramines(mg/l)	<0.1	<0.1	0.4	No Relaxation
8	Chloride (mg/l)	46.09	47.93	250.0	1000.0

S. No	Parameters	Location		Acceptable Limit IS 10500-2012	Permissible Limit IS 10500-2012
		GW-1 Women's College Ground	GW-2 Town Hall		
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)	1.22	1.45	1.0	No Relaxation
13	Magnesium (mg/l)	8.55	9.5	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)	1.81	2.1	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	0.1	No Relaxation
19	Silver (mg/l)	<0.001	<0.001	0.1	No Relaxation
20	Sulphate (mg/l)	17.4	18.4	200	400
21	Sulphide (mg/l)	<0.01	<0.01	0.05	No Relaxation
22	Alkalinity (mg/l)	91.2	76.0	200	600
23	Total Hardness (mg/l)	79.2	87.12	200	600
24	Zinc (mg/l)	0.011	0.012	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)	<0.01	<0.01	<0.01	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
Bacteriological Parameters					
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,07.01.2022**

Table 16: 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 Opposite BBMC College Residential house	GW-2 MBB College main entrance opposite road residential area		
Physical Parameters					
1	Odour (TON)	2.0	2.0	Agreeable	Agreeable
2	Colour in hazen Unit	4.0	3.0	5	15
3	Test	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity NTU	9.0	11.0	1.0	5.0
5	Total Dissolved Solid (mg/l)	285.0	312.0	500	2000
6	pH	6.74	6.85	6.5-8.5	No Relaxation
Chemical Parameters					
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)	0.77	0.89	0.5	1.0
6	Calcium (mg/l)	20.63	26.98	75.0	200.0
7	Chloramines(mg/l)	<0.1	<0.1	0.4	No Relaxation
8	Chloride (mg/l)	47.92	70.05	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)	1.82	1.6	1.0	No Relaxation
13	Magnesium (mg/l)	6.65	7.60	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)	2.1	2.3	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	0.1	No Relaxation
19	Silver (mg/l)	<0.001	<0.001	0.1	No Relaxation
20	Sulphate (mg/l)	14.6	18.2	200	400
21	Sulphide (mg/l)	<0.01	<0.01	0.05	No Relaxation
22	Alkalinity (mg/l)	72.2	95.0	200	600

S. No	Parameters	Location		Acceptable Limit IS 10500-2012	Permissible Limit IS 10500-2012
		GW-1 Opposite BBMC College Residential house	GW-2 MBB College main entrance opposite road residential area		
23	Total Hardness (mg/l)	79.4	99.0	200	600
24	Zinc (mg/l)	0.08	0.07	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)	<0.01	<0.01	<0.01	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
Bacteriological Parameters					
1	Total Coliform(CFU/100ml)	<1,<10,<100	<1,<10,<100	<1,<10,<100	Shall not be detectable in any 100 ml. sample
2	Fecal 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, 07.01.2022**

47. "A performance monitoring fact sheet" is being prepared to facilitate tracking and quick reference on environmental monitoring of subproject package (**Tables 17 and 18**).

Table 17: Performance Fact Sheet for Required Environmental Consents/Clearances of ACUDP (30th June 2022)

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	Initially 520 trees to be proposed for cutting. Now as per construction design and confirmatory survey number of trees shall be saved. Tree cutting not required within the report period	Material will be procured through authorized source	Established CTE Received and obtaining of CTO under process	Till Date not required as construction material procured through authorized source- CTE received and obtaining of CTO under process	Green DG Available at Labor camp	PUC certificates available
2	MBB College Lake Revitalisation including Operation & Maintenance for 05 (Five) Years vide Contract Package No. 002	M/s. Mecgale Pneumatics Pvt. Ltd.	Yes	Not required within the report period	Not required	Till Date not required	Till Date not required	Till date not required	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 Premier world JV	Yes	One Number Tree cutting at <i>Astabal</i> area has been done Completion certificate attached in the report	Not required	Till Date not required as material procured through authorized source	Till Date not required as material procured through authorized source	Till date not required	PUC certificates available

**Table 18: Performance Fact Sheet for EMP Implementation of ACUDP
(30th June 2022)**

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. Vasishta Constructions Private Limited Hyderabad,	Yes	Mr Srisant	Work not started	Complied	Established	Maintained	Not yet done. Will be conducted in the next reporting period	Not yet done. Will be conducted in the next reporting period	Not required now	Not required	Yes Available	Not yet done conducted in the next reporting period	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 Ritanan dan Bairi	Work not started	-	-	-	Complied	Complied	Not required in report period	Not required in this period	Yes Available.	Complied	yes Complied partially	Yes Complied	No impact	Yes

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
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 Anish	Complied	Complied	Not 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

48. For protection of local environment during construction phase, application of mitigation measures being done as per specified EMP. Public consultation during construction phase just started for Ujjayanta Palace project (**Appendix 10**).

49. Environment safeguard training/ meeting has been arranged for PIU, PMU and Contractor's site engineer on 18.05.2022 and 19.05.2022 by ASCL. Detail of the training is attached as **Appendix 8**. 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

50. 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.

51. GRM and GRC details shown in **Appendix 11**.

VIII. FINDINGS AND RECOMMENDATIONS

52. **Table 19** provides the recommended corrective action plan for compliances and target dates for compliance.

Table 19: Corrective Action Plan

Compliance needs	Action Required	Responsible	Target Date	Indicator of Compliance
Smart Road Project				
Baseline and construction phase monitoring	Contractor to finish base line monitoring at earliest and before start of construction work	Contractor	Immediate for smart road project	Site observation and records
100% 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 board	Proper Hard Barricading, Information Board and Signages required at project before start of physical work	Contractor	Immediate for smart road project	Site observation
Drinking Water Facility	Arrangement of Drinking water at work site	Contractor	Immediate for smart road project	Site observation
Submission of EHS and Site-Specific Environment Management Plan, SEMP	Urgent submission of Safeguard documents	Contractor	Immediate for smart road project	Document checking

Compliance needs	Action Required	Responsible	Target Date	Indicator of Compliance
COVID 19 compliances	Compliance during construction	Contractor	Immediate for smart road project	Site observation
Housekeeping at Labor camp	Immediate improvement of housekeeping at Labor camp and disposal of waste	Contractor	Immediate for smart road project	Site observation
MBB College Lake project				
Public consultations at project site	Ensure public consultation so that interference from public may stop	Contractor	Immediate at MBB college Lake periphery area	Site observation and record
Labor license	Immediate arrangement of Labor license before start of construction work	Contractor	Immediate for MBB college Lake project	Document check
Medical examination of workers and Tie up letter with hospital	Immediate arrangement is required before start of physical work	Contractor	Immediate at MBB college Lake area	Site observation
Sufficient safety signage and project board	Complete arrangement of all boards at site	Contractor	Immediate at MBB college Lake area	Site observation
Arrangement of toilet facility at MBB college work area before start of construction	Complete arrangement of worksite toilet	Contractor	Before start of construction at MBB college lake area	Site observation
Ujjayanta Palace renovation project				
100% use of PPEs	Complete use of PPEs specifically face mask, shoes by all workers	Contractor	Immediate at work area and to be continued	Site observation
Tie up with hospital	Immediate arrangement is required	Contractor	Immediate for the project	Document checking
Requirement of improvement of safety signage board/Information Board	Complete arrangement of safety signage board and project display board & emergency contact board at all work sites	Contractor	Immediate at Ujjayanta palace work site	Site observation
COVID 19 compliances	Compliance during construction	Contractor	Immediate at Ujjayanta palace work site	Site observation
Improvement of Occupational H & Safety arrangement	Need improvement immediately at Food court area work site	Contractor	Immediate	Site observation

APPENDIX I: Photo Illustration

PACKAGE – Renovation and Restoration of Ujjayanta Palace



First Aid Box available at Astabal work area



Work started at Astabal Area



Work continued at Astabal Area. Use of PPEs noted



GI sheet – hard barricading at Astabal Area



Food Court Demolition work continued



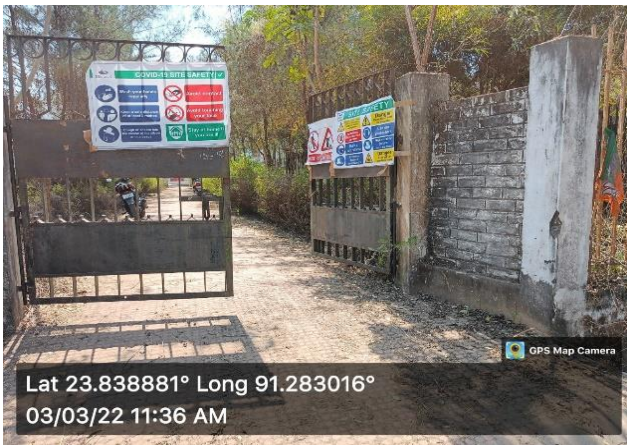
Use of hand gloves during cutting of steel rod at Ujjayanta Palace



Plantation on World Environment Day



Disposal of waste in Municipal Vehicle



COVID Board Backside of Ujjayanta Palace



Thermal Scanning for workers at Project Site

PACKAGE- Smart Road- Upgradation of Major Roads



Survey work continued for project Road



Emergency contact number available in the camp cum project office



Worker camp cum project office



Kitchen within worker's camp

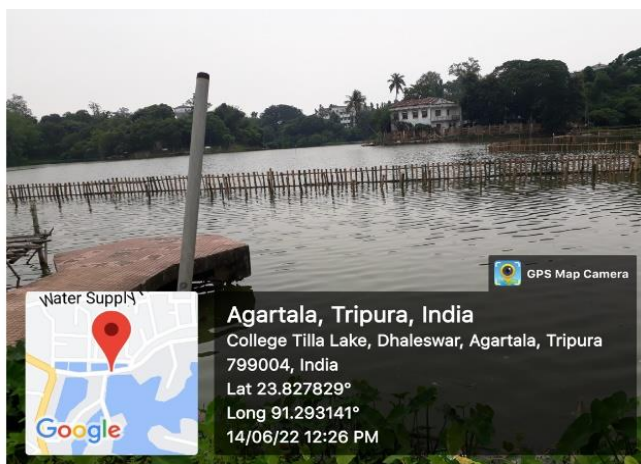


Staying arrangement of workers



Waste needs to be disposed. Improvement of housekeeping is required

PACKAGE – MBB College Lake Revitalisation



MBB College Lake- present situation



Site Safety Boards



Temporary Information Board at MBB College Lake work site



Temporary COVID 19 Information Board at MBB College Lake work site

APPENDIX 2: Sample Labor License and Insurance Policy

Labor License – Upgradation of Major Roads Project

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

This is a system generated document and does not require signature. Any unauthorized use, disclose, dissemination, or copying of this document is strictly prohibited and may be unlawful. This document can be verified at swaagat.tripura.gov.in portal.

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

Dated. 20-05-2022

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, JUBLEE 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 31-10-2020 of the principal employer
5. The licence shall remain in force till 19-05-2023.
6. Maximum number of contract labour 100 to be employed on a single day under the licence
7. Maximum number of migrant workmen 10 to be employed on a single day under the licence

Fee Paid

Contract Labour Rs. 600
ISMW Rs. 200

Security Deposited Paid

Contract Labour Rs. 9000
ISMW Rs. 5000



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

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Sample Workman Compensation Policy: Renovation and Restoration of Ujjayanta Palace and Revitalisation of MBB College Lake

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

ISSUED BY
AGARTALA D.O.
4, M.B. ROAD,
AGARTALA-799001

POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE

UIN NUMBER - IRDAN190P0077100001

Insured's Name : HANTO RANJAN ROY		Issuing Office Details	
Customer ID : PC095729521	Office Code : AGARTALA DO (531000)	Address : AGARTALA	
Address : B K ROAD BANAMALIPUR AGARTALA, TRIPURA, 799001	Phone No : XXXXX9698	Phone No : 03812386328	
E-mail/Fax : /	E-mail/Fax : nis.531000@newindia.co.in /	S.Tax Regn. No : AAACN4165CST178	
PAN No : /	GSTIN/UIN : NA / NA	GSTIN : 16AAACN4165CZ2T	
		SAC : 997139 (Other non-life insurance services excl RI)	

Policy Details			
Policy Number : 53100036210100000053	Business Source Code : DIRECT BUSINESS - (107795230)	Dev. Off level/Broker/Corp. Agent/Web Aggregator/CPSC User : Mr. MR BIKASH KALI PAUL (NIAAG00034348) NIA_AGARTALA D.O. (S100064077)	
Period of Insurance : From: 11/03/2022 04:40:06 PM To: 10/03/2023 11:59:59 PM	Phone No : NA	E-mail/Fax : bikashkalipaul@gmail.com / /	
Date of Proposal : 11-Mar-22			
Prev. Policy no. : /			
Client Type : Non-Corporate			

Premium(₹) : 9746	GST(₹) : 1754	Total (₹) : 11500	Total (₹ In words) : RUPEES ELEVEN THOUSAND FIVE HUNDRED ONLY	Receipt No. & Date : 5310008121000001971 3 - 11/03/22
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Details of Employees with monthly wages upto ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages

Details of Employees with monthly wages above ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc. Incl. excavation	Excl. blasting and tunneling	1	127750
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc. Incl. excavation	Excl. blasting and tunneling	9	1149750

Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
GOVT. CONTRACTOR	CIVIL WORK. 1. PARTIAL WORK OF UJJAYANTA PALACE, AGARTALA. 2. PARTIAL WORK OF MBB COLLEGE LAKE REVALATISATION, AGARTALA.	1.UJJAYANTA PALACE, AGARTALA. 2.MBB COLLEGE LAKE, AGARTALA	No

Signature valid


Digit by: [Signature]
Date: 11/03/22 18:54:17

Policy No. : 53100036210100000053 Document generated by 40376 at 11/03/2022 18:54:17 Hours.
Regd. & Head Office: New India Assurance Bldg., 67 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 209 1415.
Give your valuable feedback on <https://www.newindia.co.in/portal/policyFeedbackGen>.

Page 1 of 3

APPENDIX 3: NOC from TSECL for Storage and Reuse of Electric Poles and Transformers

TRIPURA STATE ELECTRICITY CORPORATION LIMITED
(A Govt. of Tripura Enterprise)



Office of the Addl. General Manager
Electrical Circle No-I
Banamalipur, Agartala
RECEIVED
No. 888
Date 29/06/19
dated 29-6-2019

No. F.4(28) /TSECL/ Corp. Office /2018-19/ 19637-40


To
The Chief Executive Officer ,
Agartala Smart City Limited,
(Municipal Commissioner , AMC)
5th Floor , City Centre
Paradise Choumuhani .
West Tripura

Sub :-Request for providing No objection Certificate (NOC) for storage & Re-use of dismantled Electric poles and Transformers recovered during overhead lines to underground conversion works on selected roads considered under up-gradation of major roads (Phase – I) project by Agartala Smarty City Mission .

Ref :- Letter no. F .4(14) /(ASCL)/ 2018 / 594-96 dated 4th May 2019


Sir ,

This is to inform you that TSECL has no objection for storage & Re-use of dismantled Electric poles and Transformers recovered during overhead lines to underground conversion works on selected roads considered under up-gradation of major roads (Phase – I) project by Agartala Smarty City Mission.

Yours faithfully

(N C DAS)
General Manager (Technical)
TSECL, Tripura

Copy to :-


1. P S to Chairman Cum Managing Director ,TSECL , for favour of kind information please.
2. The Director (Technical) , TSECL , for favour of kind information please.
3. The Addl . General Manager , Electrical Circle – I , Agartala


General Manager (Technical)
TSECL, Tripura

APPENDIX 4: Status of CTE & CTO

Consent to Establish for Batching & Hot Mix Plant for Smart Road

Certificate Sl. No. **13554**



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/ 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, 1981

Reference : i) Your Application No.157750 dated: 10-05-2022
 ii) Our NOC Register Sl.12864 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. Vasishtha 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

- a. The unit should take necessary measures to combat air pollution.
- b. Under no circumstances bitumen shall be taken out to burn.
- c. 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:

<u>Noise level not to exceed</u>	
Day Time	Night Time
(6.00amto 10.00 pm)	(10.00pm to 6.00 am)
55dB	45dB
- d. Safe disposal of saw dust should be ensured.
- e. Due care and maintenance of the DG sets should be taken in the following manner so that Pollution level can be minimized:
 - (i)The pre cleaner should be inspected for dirt/dust accumulation and it should be cleaned once in a week.
 - (ii) 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.
 - (iii) The water and sediment from water separator and fuel tank should be drained before starting.
 - (iv) Coolant condition should be maintained as per specifications.
 - (v) Lube oil pressure should be checked every morning before starting.
 - (vi) Engine log book of previous shift should be checked and then reset, if required.
 - (vii) The engine should be cleaned externally every day.
 - (viii)Leakage of engine oil, coolant and fuel should be checked before start up and engine oil should be topped, if required.
 - (ix) The engine should be primed before starting.
 - (x) 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:

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 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 19/05/2022
(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 19/05/2022
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 Solid Waste Management Site at DC Nagar Lunga site, Agartala



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

Certificate Sl. No. **11568**

No.F.17(10)/TSPCB/W/Solid Waste(M-Red)/5363/ **2961-65** Date : **13/02/2020**

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.

(Signature)
(Aparajita Das)
 Asst. Environmental Engineer
 Tripura State Pollution Control Board

(Signature)
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.

(Signature)
 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 04/7/19)*


AGARTALA MUNICIPAL CORPORATION
AGARTALA

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

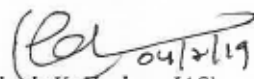
To
✓ The Chief Executive Officer,
Agartala Smart City Ltd.,
Agartala.

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.

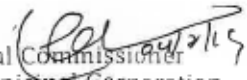
Ref. No. F. No. 4(25)/ (ASCL)/2018/1562-63 Dated 28-06-2019

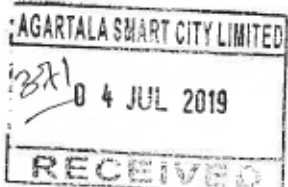
Sir,
With reference to above, this is to inform you that Agartala Municipal Corporation does not have any objection in utilizing the available land of DC Nagar SWM site and the old dumping site of Hapania for storing and dumping of demolition waste, drain silt and excavated earth.

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

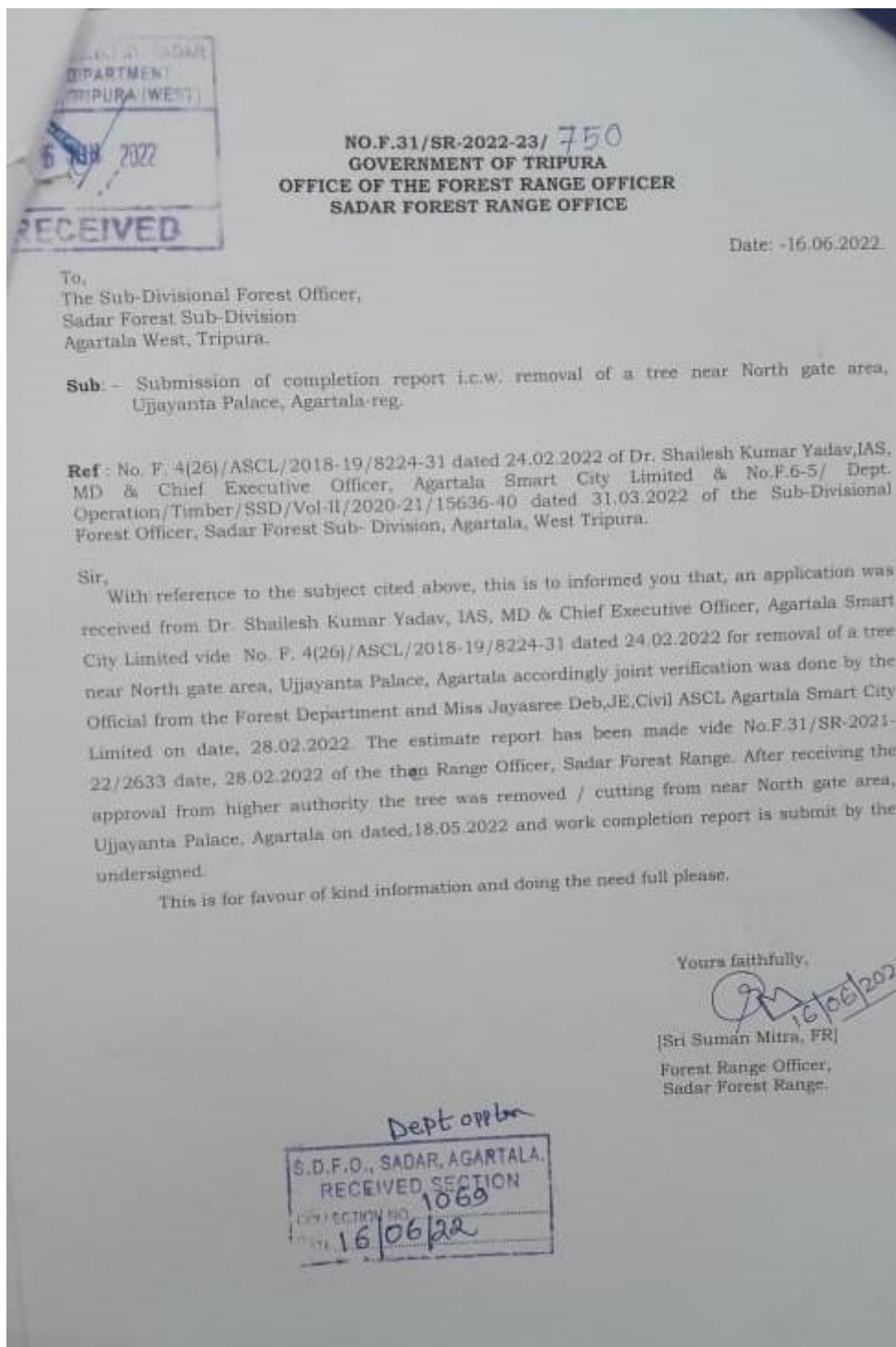
Copy to :
1) The Team Leader, PMC for information & necessary action.


Municipal Commissioner
Agartala Municipal Corporation


AGARTALA SMART CITY LIMITED
321
D 4 JUL 2019
RECEIVED

APPENDIX 5: Tree Felling NOC

Tree Cutting completion certificate from DFO at Ujjayanta Palace



Letter to Forest Department - Requesting Information on MBB CollegeLake Wetland 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 an 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.

Encl: 01 sheet.

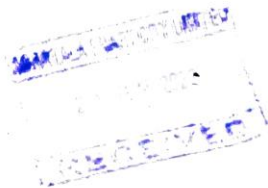
Yours faithfully,-

(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



APPENDIX 6: Letter from Director, Department of Higher Education on Ujjayanta Palace Building Heritage status

EE (RP)
(ca) 11/10/19

No.F.2 (471-1)-DHE/GTCA/2019/2007(2)
Government of Tripura
Directorate of Higher Education.

Dt. 9/10/2019

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

Subject: - Status of Ujjayanta Palace

Sir,

In inviting a reference to the subject cited above, I am to inform you that the issue regarding the status of Ujjayanta Palace has been examined by the Department based on the record available with the section of the Department. So far the records are available in the Department, it is to be stated that the Ujjayanta Palace despite of one of the oldest building in the State, it is yet not declared by the Govt. as a heritage building.

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

Yours faithfully
(Saju Vaheed A. IAS)
Director
Higher Education

Copy to:-

The P.S. to the Secretary, Higher Education.

APPENDIX 7: 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 20th October, 2016 vide which the above Committee was constituted is at **Annexure I**. The Committee submitted a report before the State Government on 27th 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 geotextiles, 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 pilling 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

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APPENDIX 8: Environmental Safeguard Training/Meeting for All the Packages

Safeguard Training at ASCL office

A safeguard requirement Training was arranged on 18.05.2022 & 19.05.2022 at ASCL office where all site engineers, Safety officer of contractor and PIU & PMU Officers & Engineers were present. It was discussed that site safety is the prime responsibility for safety officer and site engineers, ADB SPS and requirement of implementation of EMP was also briefed. Under COVID 19 pandemic situation thermal scanning, use of mask and maintaining social distancing needs to be followed at all work site and camp, these explained to contractor. The responsibility of safety officer is to display COVID 19 information in local language. Attendance sheet is attached below.



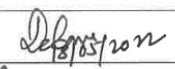

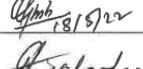
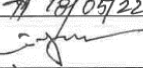
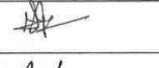


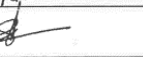


Meeting on safeguard requirements



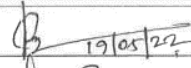
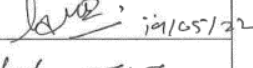
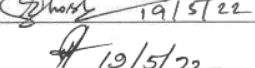
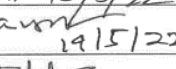
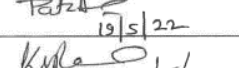
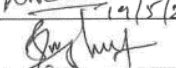
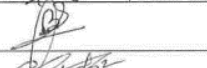




Meeting on safeguard requirements

Attendance Sheet

Attendance of the participant in the training on Social & Environment Safeguard in accordance with ADB Guideline, PIU-2 to be held on 18th May 2022 in the conference hall in the conference hall Agartala Smart City Limited, Agartala, Tripura.

Sl. No	Name	Designation	Name of Organization	Signature
1	Subodh Debbama	EE	ASCL	
2	Pradip Kr. Das	EE	ASCL	
3	Sajal Ghosh	EE	ASCL	
4	Rajib Das	Team Leader PMC ASCL	ASCL	
5	LINGARAJ PANDA	Social Expert PMC, ASCL	ASCL	
6	Sanghy Achary	Admin, PMO, ASCL	ASCL	
7	Sk. Anish udin Ahmed	EHS Officer, MPPL	MPPL	
8	Shivendu Bhattacharya	Project Mgr.	MPPL	
9	Arjun Sarker	Sr. Project Mgr	MPPL	
10	Suman Ghosh	Service Engg.	PWTL	

Attendance of the participant in the training on Social & Environment Safeguard in accordance with ADB Guideline, PIU-1 to be held on 19th May 2022 in the conference hall in the conference hall Agartala Smart City Limited, Agartala, Tripura.

Sl. No	Name	Designation	Name of Organization	Signature
1	Er. Pradip Kr. Das	EE	ASCL	
2	Mousumi Choudhury	ESNO	ASCL	
3	Dr. Rashmi Ghosh	PEPO	ASLL	
4	Rajib Das	Team Leader PMC	ASCL	
5	LINGARAJ PANDA	Social Expert PMC	ASCL	
6	Dr. Anil K. Patra	Env. Spl.	ASCL	
7	K. V. RAO,	D. G. M/PM	VCPL	
8	E. SREESHANTH	EHS	VCPL	
9	Brittangsuh Debnath	Social Supervisor	VCPL	
10	Chandrani Deb Sharma.	JE	ASCL	
11	Abhisit Debbama	JE	ASCL	

Environment Safeguard Meeting on 17th June 2022 for ADB funded “ Agartala City Urban Development Project”

Safeguard review meeting has been conducted on safeguard compliance issues relevant to project and application of Environmental Management Plan (EMP) at ASCL office, Agartala on 17th June 2022 morning.

Meeting has been organized from ASCL in association with Environment Health Safety Independent Consultant ADB-PMU. Environment & Social Nodal Officer of ASCL PMU, Executive Engineer, Assistant & Junior Engineer of PIU ASCL, PMC's Team Leader, Environment safeguard Expert, Construction Manager of PMC, Contractor's representative, Project Managers, Environment, Health and Safety officer of contractors and supervisor Engineers of contractors attended that review meeting.

The issues discussed like,

- Overall environment safeguard documentations
- Overall application of EMP and compliance of safety requirement
- Labor Camp & site office establishment and site management- requirement of proper sanitation and solid waste management
- Disposal of construction waste, overburden earth, rocks, spoil materials after work
- Storage of construction materials and specifically 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, noise and water

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



Environmental Safeguard Review Meeting

ASCL Conference Hall, Agartala

Requirement for immediate compliance as per ADB's policy

- Immediate arrangement of proper Labor license, workman compensation policy, All risk policy and renewal of the same timely before expiry
- Submission of Currently valid PUC Certificate for all vehicles and equipment engaged in the project
- Grievance/complaint register at work sites/camp office as per standard format.
- Availability of First aid register at all work sites
- At Labor camp site office display board showing all emergency contact no. and display of Safety Officers' name and telephone number at work sites
- Maintaining accident register at camp/ site office
- Document showing tie up of construction agency with local doctor/nursing home/hospital
- Medical examination report of workmen every six month
- First aid boxes with required medicines with valid dates at all work sites/camp site offices.
- Toilet & Drinking water facilities at work site and worker's camp
- Firefighting facilities (Fire Extinguisher, sand bucket) at vulnerable work sites/ Labor camp/ site office/ combustible material storage site. Regular checking of expiry date of firefighting equipment. Refilling immediately as per requirement
- In case of fuel storage, tray below fuel drum and 110% containment is required
- Non storage of petroleum product within office room and access – source prevention for any fire hazard
- Fire exit area should be cleaned and sufficient arrangement of lighting
- Rubber mat (ISI marked) at high voltage electrical switch board area
- Carry out air quality, noise level, water quality monitoring for all packages

Health and Safety related Instruction sheet for contractor

Health & Safety

- Implement good housekeeping practices at the construction camp, storage area and work site.
- Strictly implement health and safety measures and audit on a regular basis.
- Secure enclosed construction site.
- Provide warning signs of hazardous working areas.
- Clearly demarcate excavations and provide barriers (not just danger tape) to protect pedestrians from open trenches.
- Thoroughly train workers assigned to dangerous equipment.
- Workers have the right to refuse work in unsafe conditions.
- Undertake waste management practices.
- Control speed and movement of construction vehicles
- Use of equipment, vehicle with back alarm
- Exclude public from the site
- Ensure all workers are provided with and use Personal Protective Equipment- helmet, gumboot, safety shoes, hand gloves, nose mask, ear plugs,
- Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas
- First aid boxes with required medicines with valid dates at all work sites/camp site offices. Standardization of first aid box is required. Ensure equipped first-aid stations are easily accessible throughout the site
- Provide medical insurance coverage for workers.
- Display of Safety Officers' name and telephone number at work sites
- Provide clean eating areas where workers are not exposed to hazardous or noxious substances;
- 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;
- Ensure moving equipment is outfitted with audible back-up alarms;
- 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 international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate.


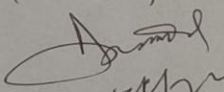
Attendance Sheet

Workshop on Environmental Safeguards of ADB on 17.06.2022

Sl No.	Name	Designation	Organisation	Signature
1	Dr. Anshendu Mitra	Independent Consultant - Environment - ADB	Consult - ADB Support PMU	A. Mitra
2	Jahson Debbarna	Sr. Manager (Elect)	ASCL	J. Debbarna
3	Moutusi Choudhury	LSNO	ASCL	M. Choudhury
4	Subodh Debbarna	EE	ASCL	S. Debbarna 17/06/22
5	Rahul Das	AE	ASCL	R. Das 17/06/22
6	ASHIM SIKDER	S. Manager	maegel	A. S. S. S.
7	Rakesh Bhadrani	Site Engineer - JE	ASCL	R. Bhadrani 17/06/22
8	Rupak Debnath	JE	ASCL	R. Debnath 17/06/22
9	Chandrani Deb Sharma	JE	ASCL	C. D. S. 17/06/22
10	K. V. RAO.	D. G. M	Vasishtha Cons (P) LTD	K. V. R.
11	Harveer Singh	S. E.	Vasishtha Cons - P. LTD	H. Singh
12	Borithangshu Debnath	Social Supervisor	Vasishtha Cons Pvt Ltd	B. D.
13	Mr. G. Rama Krishna	Electrical Engineer	Vasishtha Construction Pvt Ltd	G. R. K.
14	Mr. Anishuddin Akbar	EHS - Officer	Meegale Pneumatics Pvt. Ltd.	A. Akbar
15	Susil Kumar	Construction Mgr.	PMC	S. K.
16	Rajib Das	Team Leader PMC	PMC ASCL	R. Das
17	Jayasree Deb.	Junior Engineer	ASCL	J. Deb 17/6/22
18	Dr. Anil K. Patra	Env. Spl. PMC	PMC	A. Patra
19	Sankar Sankar	J.E. (Elect), ASCL	ASCL	S. S.
20	Mr. X. Debnath	A.E (Civil), ASCL	ASCL	X. D.

APPENDIX 9: Health Check-up Camp/Tie-up with Hospital

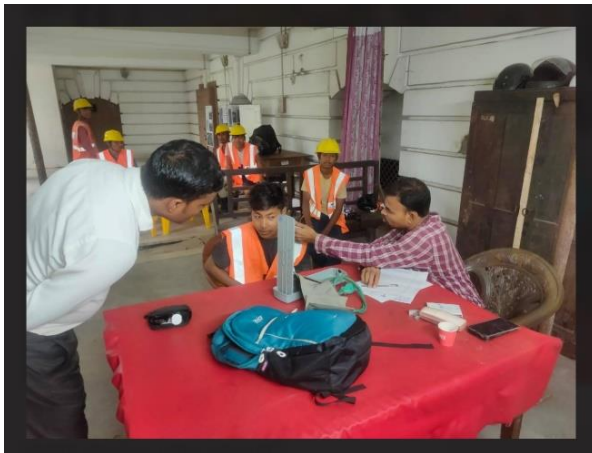
Health Check-up Camp under Ujjayanta Palace package

Dr. Arjun Das M.B.B.S, CCMH Medical Officer, Gr. IV T.H.S Contact No. - 9436181772				RESIDENCE KALIKAPUR, NEAR BASUDEB ASHRAM	
				EVERYDAY Visiting Hours : 5 pm - 8 pm.	
C/o	Patient's Name :				
	Age : Sex : Date :				
	<p>I have examined 20 workers working under Megale Premierworld JV at Ujjayanta Palace site at Agartala. Details of the workers are attached with the prescriptions. All workers are fit and may work for Megale Premierworld JV as worker. There is no abnormality detected during the examination held on 17th June 2022.</p>				
O/E	<p style="text-align: right;"> 17/6/22 Dr. Arjun Das M.B.B.S Gr. IV T.H.S Reg. No. 01454</p>				
Pulse					
B.P.					
C.V.S					
CNS					
PA					
EST					
TEMP					
Investigation					
Not applicable for Medicolegal purpose In any emergency attend nearby hospital					

MEDICAL CAMP ATTENDANCE SHEET

SL NO.	NAME	AGE
1	Paritosh Munda	28
2	Pradip Debbarma	20
3	Diam Debbarma	20
4	Rabichan Chakma	28
5	Samarjit Chakma	29
6	Rajen Chakma	22
7	Chiranjeet Namasudra	24
8	Jaka Debbarma	22
9	Rahul Das	25
10	Biswajit Debabrma	30
11	Montu Chakma	30
12	Uttam deb	35
13	Anil Kanti Chakma	23
14	Kumar Chakma	25
15	Khachang Tripura	28
16	Dharmendra Reyang	34
17	Marjiram Reyang	22
18	Parthoram Reyang	24
19	Bimolram Reyang	25
20	Bijoyram Reyang	27

Arjun Das
Dr. Arjun Das
M.B.B.S
Gr. IV THS
Reg. No. 01454



Health Checkup Camp under the project- "Upgradation of Major Road"

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

I Dr. Payel Biswas (MBBS) , Registration Number-002695(TSMS) have conducted a Health Check-up camp & Awareness campaign of HIV/AIDS at Vasishta Construction Private Limited's Base-camp on 01/07/2022 from 10.00 am to 3.00 pm for the Project named **Upgradation of Major Roads and Post Completion Maintenance for 05(five) years.**

I have examined total 74no of persons in which 36 no of persons are Drivers and the rest 38 no of persons are Workers.I checked and found that all the drivers and workers are medically fit to work.

Date-01/07/2022
Place-Chandmari, VCPL Base-camp

Dr. Payel
DR. Payel Biswas
M.B.B.S (TU)
Reg No-002695 (TSMC)
Signature & Stamp

List of Drivers & Workers

SL No	Name	SL No	Name
01	Pushpa Rani Das	21	Malay Das
02	Manashi Biswas	22	Surajit Laskar
03	Bina Das	23	Dulal Malakar
04	Manju Paul	24	Deepjoy Das
05	Debu Dey	25	Krishna Mandal
06	Umesh Datta	26	Pintu Kumar
07	Naru Das	27	Abdul Ali
08	Dulu Sharma	28	Ranjit Das
09	Raju Das	29	Lakhan Sarkar
10	Nanda Mog	30	Sourab Barai
11	Ganesh Debbarma	31	Kunjaraj Tripura
12	Rajkumar Reang	32	Naudi Mohan Tripura
13	Sunadhan Chakma	33	Prasenjit Das
14	Biplab Shil	34	Gopal Seal
15	Ukhai Mog	35	Gobinda Das
16	Biswajit Tripura	36	Joydeep Roy
17	Manohar Thapa	37	Sudhangshu Debnath
18	Ajay Debbarma	38	Sanjib Chakma
19	Amarjit Tripura	39	Bishnu Swami
20	Babol Debnath	40	Amal Tripura

Date:-01/07/2022
Place-Chandmari, VCPL Base-camp

Dr. Payel
DR. Payel Biswas
M.B.B.S (TU)
Reg No-002695 (TSMC)
Signature & Stamp

List of Drivers & Workers

SL No	Name	SL No	Name
41	Ratan Debnath	61	Ranjit Chetri
42	Hazrat Ali	62	Abhiman Roy
43	Bimal Roy	63	Suhel Akter
44	Biswajit Das	64	Samiran Datta
45	Sankar Chakma	65	Prankumar B. Kora
46	Purnajay Tripura	66	Dulal Miah
47	Deep Dey	67	Samiran Das
48	Dibakar Paul	68	Narayan Das
49	Rubel Akter	69	Rezzak Ali
50	Bijen Singha	70	Parimal Debnath
51	Faruk Ahmed	71	Saherul Haque
52	Taranjoy Tripura	72	Safikul Ali
53	Bidyaman Chakma	73	Ashabul Haque
54	Ram Majumder	74	Prasenjit Nandi
55	Dipak Das		
56	Suman Datta		
57	Jutan Das		
58	Sanjib Kumar Das		
59	Manojit Paul		
60	Nirmal Reang		


Date:-01/07/2022

Place-Chandmari, VCPL Base-camp


Dr. Payel Biswas
DR. Payel Biswas
M.A.S.(U)
Signature & Stamp



Tie Up with Hospital by "Major Road project" contractor



ILS
HOSPITALS



Accredited
by NABH

Letter No.: ILS/AGT/BD/COPR.COMM/30/2022

Dated: 16th 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 14.06.2023)

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 | Agartala* | Dumdum* | Howrah
Ph.: 033 4020 6500 | Ph.: 0381 241 5000 | Ph.: 033 4031 5001 | Ph.: 033 4088 0000

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

APPENDIX 10: Public Consultation on Environmental issues

Consultation with Forest Officer

Recently a Consultation /meeting was conducted on 14,06,2022 at Forest Department, where tree felling completion report for one tree at *Astabal* area was discussed with Tripura Forest Service (TFS) official. It was also briefed that confirmatory survey for major road is under progress and few trees shall be saved. Final Number of trees cutting will be informed after confirmatory survey work and accordingly NOC will be obtained.



PUBLIC CONSULTATION AT UJJAYANTA PALACE


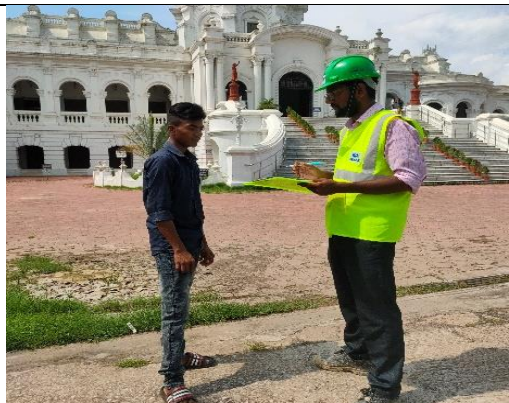
Name of the Project:- Renovation and Restoration of Ujjayanta Palace Work including Operation and maintenance for Five Years.

Package:- P53262-IND A.C.U.D.P -003

Client :- Agartala Smart City Limited

Implementing Agency:- Mecgale Premierworld JV

Sr No	Date	NAME	AGE	Descriptions	LOCATION	PHOTOGRAPHS
1	18.06.2022	Piyas Barman	24	Local People	Astabal Area	
2	24.05.2022	Sanath Dip Dey	18	School student	Rear Garden	
3	24.05.2022	Udai Sarkar	19	College Student	Rear Garden	
4	28.05.2022	Totuan Das	30	Security Staff of Ujjayanta Palace	Ujjayanta Palace	

Sr No	Date	NAME	AGE	Descriptions	LOCATION	PHOTOGRAPHS
5	10.06.2022	Sadhan Chandra Dey	62	Retired Tripura Tourism staff, currently managing a Tea stall near Ujjayanta Palace	Tripura Tourism Office Near the car parking area.	
6	22.06.2022	Manesh Telenga	25	Tourist	Ujjayanta Palace central Garden	

Discussion Points: -

- Brief Introduction about the project.
- Funding agency
- Client, Consultant & Implementing agency
- Duration of the project
- Difficulties faced during to the construction activities
- About Complaints procedure / GRM registration process
- Outcome of the projects
- Covid-19 and its effects on their life
- Covid-19 Precautions taken during implementation of this project
- Suggestion

Conclusion: -

During the public consultation it was observed that the local public are feeling satisfied regarding the ongoing renovation work of *Astabal* area. They also told that the proposed food court area previously occupied by land registration department and the existing office was burnt due to huge fire so in that place food court will be a good option and it will create some local attraction among the peoples. During project work the approach road must be clear at all time, as suggested by the Ujjayanta palace security staff. Tourists were excited about the proposed floating fountain and light and sound show at the Jagannath Bari Lake. There will be overall improvement of aesthetic environment.

APPENDIX 11: 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"> • Executive Engineer • Site Engineer, ASCL • EHS Officer of Contractor • Contractor's siteengineer • Representative of affected people (AP) 	<ul style="list-style-type: none"> • CEO, ASCL • E&S Nodal Officer • PEPO • Executive Engineer • Asst. Engineer • Team Leader, PMC • E&S Officer, PMC 	<ul style="list-style-type: none"> • Members of Executive committee of ASCL

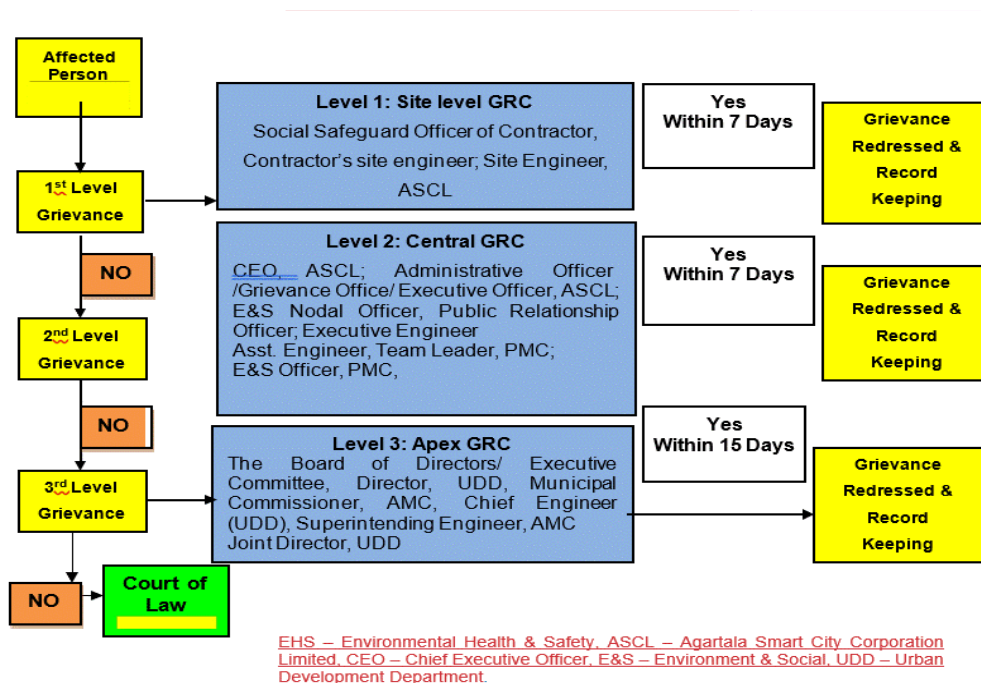
9. **Process and Timeframe:**
 - a. **1st level grievance:** In case of grievances that are immediate and urgent in the perception of the complainant, concerned officer of PIU will direct the contractor toand ensure that it is resolved. If the grievance is not under the contractor scope, but under the project, PMC (field office) will resolve this issue. All the grievances should be resolved within 7 days of receipt of a complaint/ grievance.
 - b. **2nd 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. **3rd level grievance:** All the grievances that are not addressed at 2nd 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



- 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 Councilors 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 WhatsApp as 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)
1ST 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 17th 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.

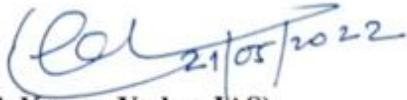
The composition of the Grievance Redressal Committees (GRC) for ADB assisted projects:-

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

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.

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

FOR OFFICIAL USE ONLY

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

GRIEVANCES RECORD AND ACTION TAKEN

Sr. No.	Date	Name and Contact No. of Complainer	Type of Complain	Place	Status of Redress	Remarks

GR 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 সাহচর্যে 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 প্রকল্পঃ		
যোগাযোগের তথ্য / বিস্তারিত ব্যক্তিগত তথ্য				
নাম		লিঙ্গ	পুরুষ 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 না
প্রকাশের উপায়	