

Environmental Monitoring Report

PUBLIC

Project Number: 53276-002
Semi Annual Report (March - September 2024)
December 2024

India: Tripura Urban and Tourism Development Project

PART A

Prepared by Project Management Unit, Urban Development Department, Government of Tripura
for Asian Development Bank (ADB).

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or Staff, and may be preliminary in nature. Your attention is directed to the "terms of use" section of ADB's website.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, ADB does not intend to make any judgments as to the legal or other status of any territory or area.

TRIPURA URBAN AND TOURISM DEVELOPMENT PROJECT (TUTDP)

PROJECT MANAGEMENT UNIT

1st

SEMI ANNUAL ENVIRONMENT MONITORING REPORT

ADB Loan 4375-IND

(Period March to September 2024)

December 2024



URBAN DEVELOPMENT DEPARTMENT
GOVT. OF TRIPURA

Tripura Urban Planning & Development Authority (TUDA) || Tripura
Tourism Development Corporation Limited (TTDCL)

TABLE OF CONTENTS

I.	INTRODUCTION	3
II.	COMPLIANCE STATUS WITH NATIONAL/ STATE/ LOCAL SATATUTORY ENVIRONMENTAL REQUITREMENTS	35
III.	COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS	63
IV.	COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN	69
V.	APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT	190
VI.	MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS	191
VII.	SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS	208

APPENDICES

Appendix 1	Photo Illustration	213
Appendix 2	Sample Pollution Under Control Certificate	220
Appendix 3	Labour License	224
Appendix 4	Contractor's Insurance Policy for Workers	234
Appendix 5	Environment Clearance Clarification and Application For NOC - Surface And Ground Water Use For Construction	247
Appendix 6	Royalty Paid receipt	261
Appendix 7	NOC from ULB for waste disposal	264
Appendix 8	Tie up with Health Institutes	265
Appendix 9	Health check up document	276
Appendix 10	Notification of different Project Committee	286
Appendix 11	Orientation Environment Safeguard Implementation	292
Appendix 12	Tool box Talk Document	312
Appendix 13	GRC Notifications and Committee GRM and Grievance Registration Form	316
Appendix 14	Informal Public Consultation at Field Level	321
Appendix 15	Sample First aid Record	323
Appendix 16	Surface Water quality test report	324
Appendix 17	Detailed Report on Flood of Gomati River	326

ABBREVIATIONS

AC	- Asbestos Cement
ADB	- Asian Development Bank
BOD	- Biochemical Oxygen Demand
COD	- Chemical Oxygen Demand
CPCB	- Central Pollution Control Board
CTE	- Consent to Establish
CTO	- Consent to Operate
DBO	- Design Build Operate
DG	- Diesel Generator
DO	- Dissolved Oxygen
DTW	- Deep Tube well
DWS	- Drinking Water & Sanitation (wing of PWD)
EA	- Executing Agency
EHS	- Environment, Health & Safety
EIA	- Environmental Impact Assessment
EMP	- Environmental Management Plan
EMR	- Environment Monitoring Report
ESSR	- Environment and Social Safeguard Unit
GESI	- Gender Equality and Social Inclusion
GLSR	- Ground Level Storage Reservoir
GRC	- Grievance Redressal Committee
GRM	- Grievance Redress Mechanism
HDPE	- High Density Poly ethylene
IEE	- Initial Environmental Examination
LOA	- Letter of Acceptance
LPG	- Liquefied Petroleum Gas
MoEFCC	- Ministry of Environment and Forest & Climate Change, Government of India
NTP	- Notice to Proceed
O&M	- Operation and Maintenance
OHSR	- Overhead Storage Reservoir
PIU	- Project Implementation Unit
PMSC	- Project Management Supervision Consultant
PMU	- Project Management Unit
PM _x	- Particulate Matter with size x micron
PUC	- Pollution Under Control
RP	- Resettlement Plan
SEMP	- Site Environment Management Plan
SGS	- Safeguard and Gender Cell
SPS	- Safeguard Policy Statement
TMP	- Traffic Management Plan

TSPCB	- Tripura State Pollution Control Board
TTDCL	- Tripura Tourism Development Corporation Limited
TUDA	- Tripura Urban Planning & Development Authority
UDD	- Urban Development Department
ULB	- Urban Local body
USD	- US Dollar
WTP	- Water Treatment Plant

I. INTRODUCTION

A. Background – Overall Project Description and Objective

1. Urban Development Department (UDD), Govt of Tripura (the Executing Agency) through its Project Management Unit and Project Implementing Unit is implementing the “**Tripura Urban and Tourism Development Project**” (TUTDP). The Loan for TUTDP (ADB Loan – 4375 IND) was signed on 22nd December 2023 (Loan effective 20th March 2024) between Government of India and the Asian Development Bank. Government of India has agreed to make the proceeds of the loan available to the Government of Tripura upon terms and conditions satisfactory to the Asian Development Bank.

2. The Government of Tripura acting through the Urban Development Department (UDD) will be the project executing agency, and the Tripura Urban Planning and Development Authority (TUDA) and Tripura Tourism Development Corporation Limited (TTDCL) will be the implementing agencies and will be wholly responsible for implementing ADB-financed projects, as agreed jointly between the borrower and ADB, and following the policies and procedures of the government and ADB. ADB staff is responsible for supporting implementation, including monitoring compliance by UDD, TUDA, and TTDCL of their obligations and responsibilities for project implementation following ADB policies and procedures and the loan and project agreements.

3. Aligned with the Government of India’s vision, Tripura has prepared a long-term plan to be a fully developed state by 2047, hundredth year of the country’s independence. The plan identifies a set of 251 cross-sector development indicators and specifically aims at making urban areas more liveable, citizen-friendly, sustainable, and resilient and at enhancing the quality of life of its urban inhabitants¹. The state will also benefit from the Government of India’s support on urban sector policies, capacity building, urban planning, implementation, and governance.

4. The project, TUTDP will improve the municipal infrastructure and public services for 12 out of 20 urban local bodies (ULBs) along the main national highways in Tripura². In addition, the project will strengthen the capacities of those ULBs for integrated planning, including climate and disaster resilience, project management, operation and maintenance (O&M) of water supply and road, service delivery, and financial sustainability through improved resource mobilization and creditworthiness. The project also aims to upgrade key tourism sites that are accessible from selected project towns and build the capacity of the state tourism agency, the Tripura Tourism Development Corporation Limited (TTDCL), with a 10-year business plan and marketing strategy.

5. Total TUTDP investment envisaged is USD 125 million and based on 80% ADB financing. ADB’s loan would be USD 100 million ADB funding (Ordinary Capital Resources) and 20% counterpart funding by Government of Tripura would be around USD 25 million. The implementation period of TUTDP is 6 years, from 2024 to 2030.

6. The project is aligned with the following impacts: clean and sustainable environment in ULBs achieved, and Tripura’s upgraded destinations attracting more tourists³. The project will have the following outcome: urban services in ULBs, and sustainable tourism improved in project areas.

¹ Government of Tripura, Planning Department. 2022. *Lakshya 2047*. Agartala.

² The 12 project ULBs are Amarpur, Ambassa, Belonia, Bishramganj, Dharmanagar, Kailasahar, Khowai, Kumarghat, Melaghar, Mohanpur, Ranirbazar, and Udaipur.

³ Government of India, Ministry of Housing and Urban Affairs. 2015. *Smart Cities Mission Guidelines*. New Delhi; and Government of Tripura, Department of Tourism. 2020. *Tourism Policy 2020–2025*. Agartala.

- **Output 1: Municipal reforms and capacity of ULBs strengthened.** The project will strengthen (i) the capacity of ULBs' staff in project management, service delivery, and O&M of urban infrastructure; (ii) preparation and implementation of plans for enhancement of ULBs' creditworthiness through improved own-source revenues (e.g., property taxes) and financial management; (iii) city-wide inclusive sanitation complementing government schemes; (iv) integrated urban planning incorporating climate and disaster resilience, universal design principles, and gender equality and social inclusion (GESI) analysis in Dharmanagar and Udaipur; and (v) building regulations and by-laws.
- **Output 2: Climate-resilient urban infrastructure improved.** The project will improve urban infrastructure, such as (i) water supply system with four new water treatment plants (total capacity of at least 23.15 million liters per day), 42 kilometres (km) new transmission and distribution pipes, and 52 district metered areas covering 74,700 households with water meters (with 24/7 supply and non-revenue water target of 15%); (ii) 55 km of stormwater drains; and (iii) 21 km of municipal roads for the 12 project ULBs, by three sub-regional groups: (a) Ambassa, Dharmanagar, Kailasahar, and Kumarghat; (b) Khowai, Mohanpur, and Ranirbazar; and (c) Amarpur, Belonia, Bishramganj, Melaghar, and Udaipur. Project implementation units (PIU) will be set up in Kumarghat, Agartala and Udaipur respectively for close project implementation monitoring and supervision.
- **Output 3: Tourist destination improved.** The project will strengthen the public infrastructure that is vital for climate-resilient and ecotourism such as (i) tourism destination development (e.g., two temples and a campsite) with improved climate and disaster resilience and green infrastructure retrofitted (e.g. use of light emitting-diode [LED] lights and bio-composters), (ii) a digital museum development at the Neermahal Palace on the history and cultural heritage, (iii) an improved tourist accommodation (Unakoti) and a family-oriented adventure park (Sonamukhi), and (iv) tourism-related goods and equipment for selected tourism destinations.
- **Output 4: Capacity of tourism development corporation's operational services improved.** TTDCL will (i) develop a 10-year business plan including marketing and coordination with the private sector (e.g., outsourcing of O&M of tourism facilities and assets to local businesses, small and medium enterprises, especially those run by women); (ii) demonstrate community-based tourism development; (iii) design and implement stakeholder tourism capacity and skill development program; and (iv) conduct marketing and tourism promotion activities.

7. The following figures show the area covered under TUTDP works, both Urban and Tourism.

MAP OF TRIPURA SHOWING DISTRICT BOUNDARY AND PROJECT TOWNS



Figure 1: District and Town map of Tripura

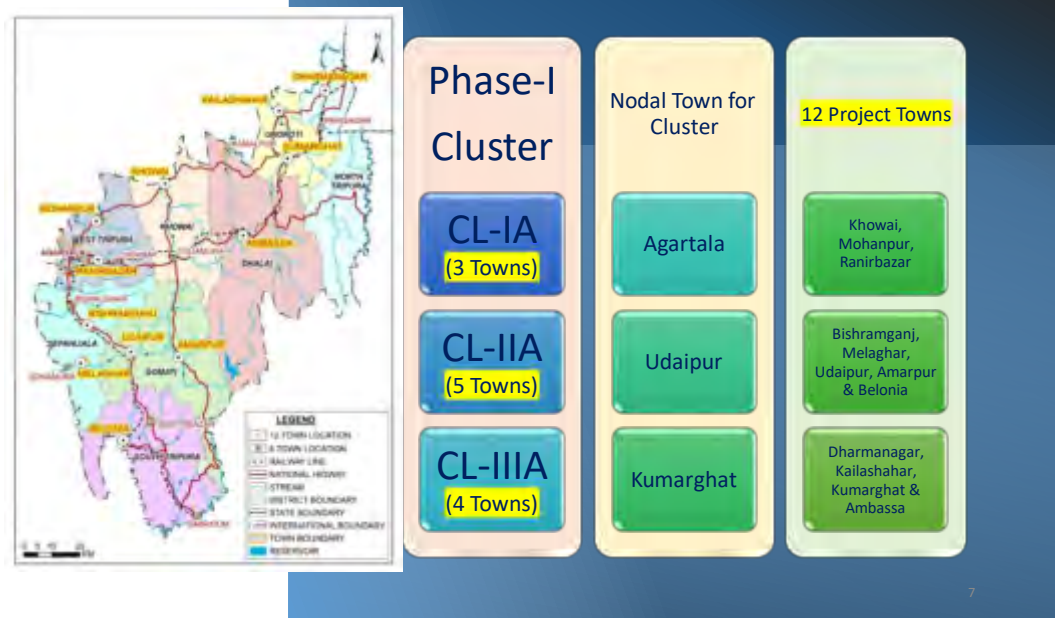


Figure 2: Phase I Cluster Towns for Urban Projects

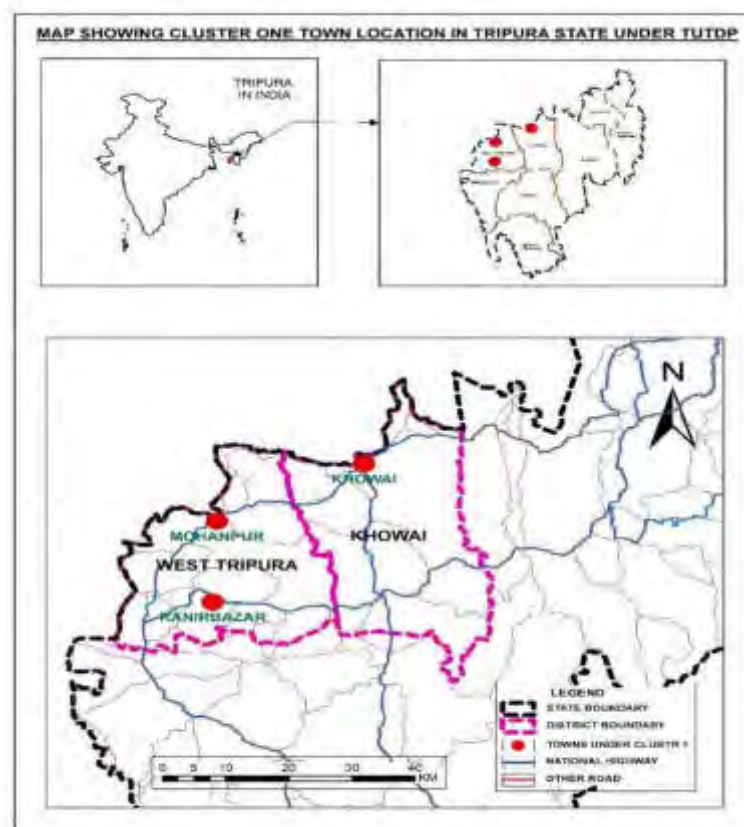


Figure 3: Cluster IA Towns – Urban projects

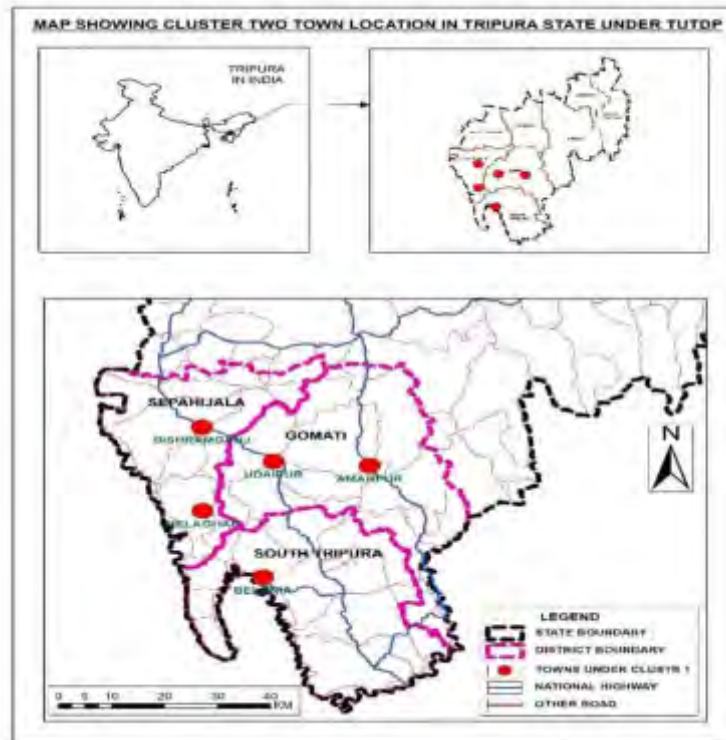


Figure 4: Cluster IIA Towns – Urban projects

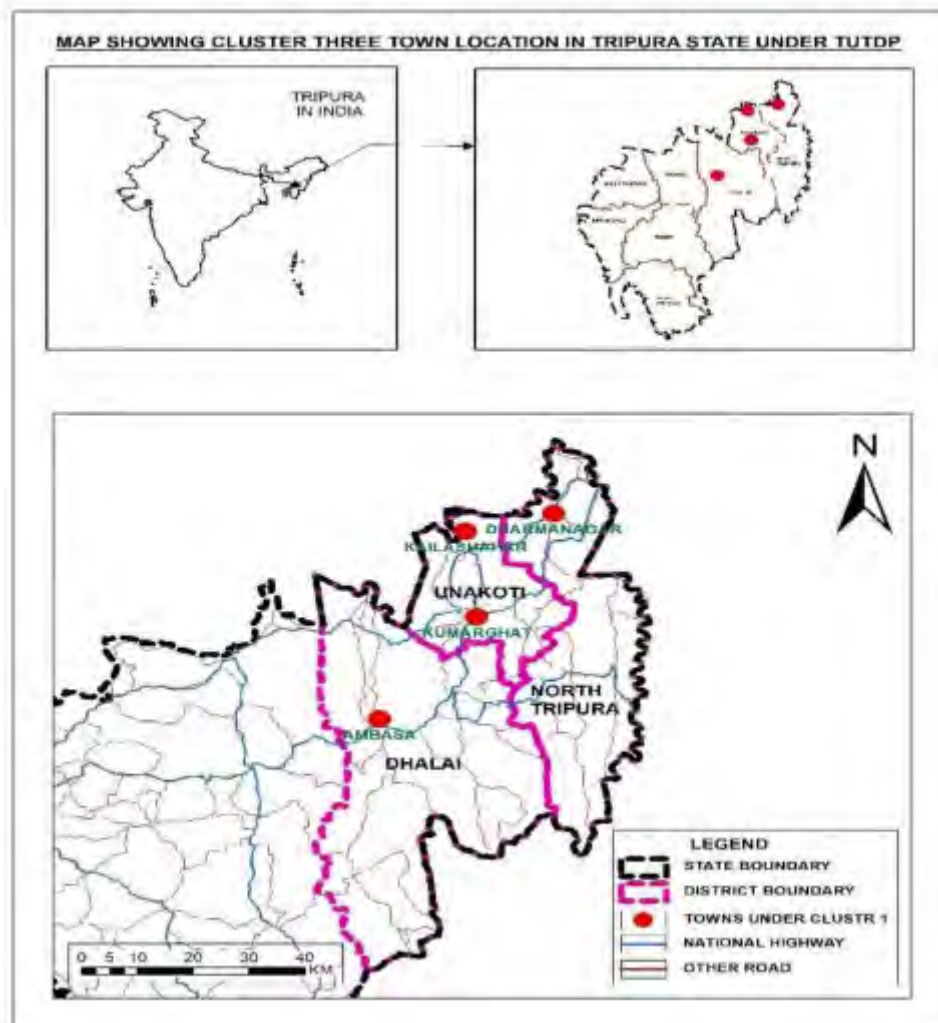


Figure 5: Cluster IIIA Towns – Urban projects

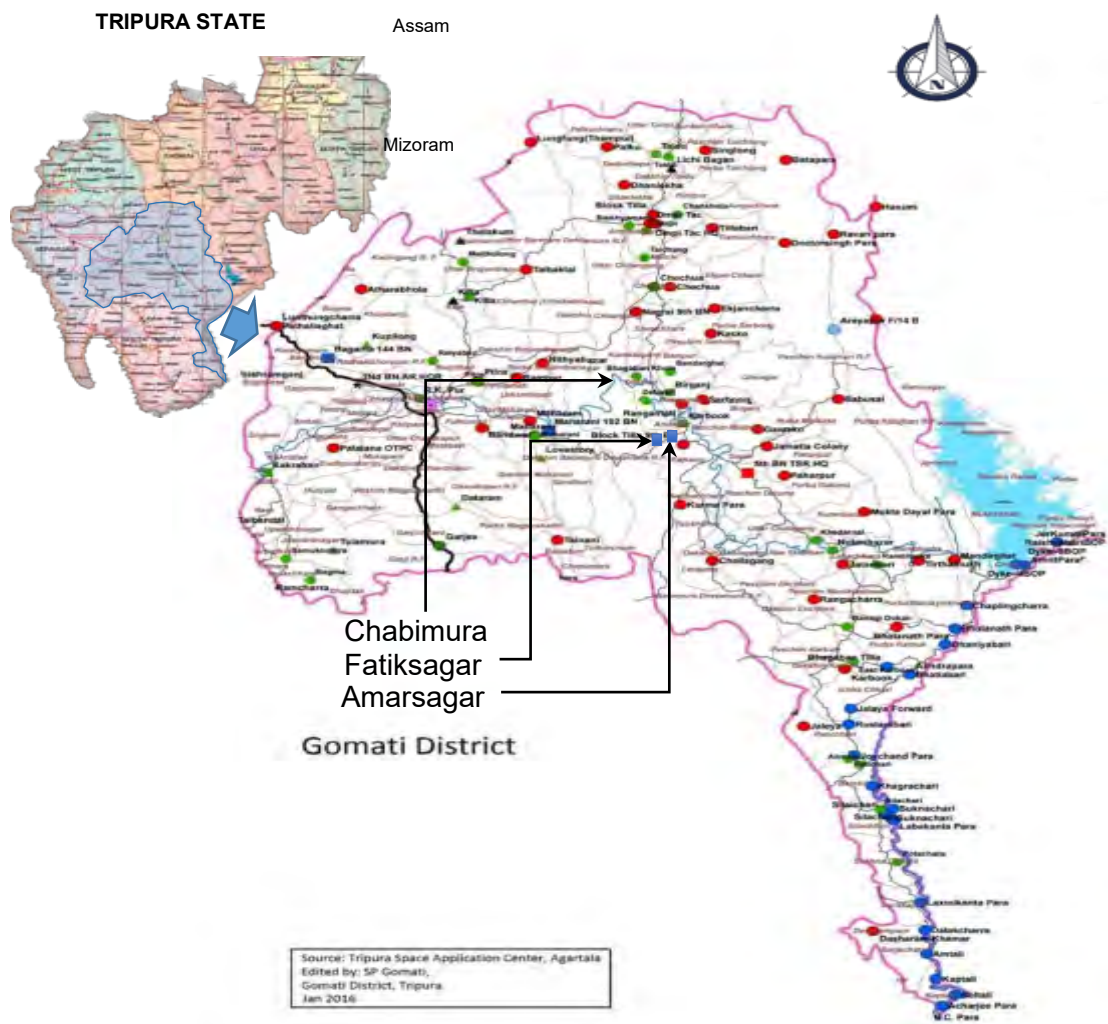


Figure 6: Location of Tourism Destination Development at Chabimura and Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar



Figure 7: Project Location- Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar

B. Environmental category as per ADB Safeguard Policy Statement, 2009

8. Sub Projects under **TUTDP** has been classified by ADB as environmental assessment **Category B** (some temporary impacts but less significant than category A) and the impacts of subprojects were assessed through Initial Environmental Examination (IEE), prepared according to ADB's Safeguard Policy (SPS 2009).

C. Environmental category of each subproject as per national laws and regulations

9. There are 6 urban sector projects and 4 tourism sector projects (civil works contracts) - None of the 6 urban sector subprojects under TUTDP are included in the list of projects requiring Environmental Clearance, therefore EIA and Environmental Clearance (EC) is not required. There are 3 area development projects under tourism sector. Since the area development work is less than 20,000 sqm, "Environment Clearance" are not required for those. It was confirmed by State Level Environment Impact Assessment Authority. Letters are attached in **Appendix 5**.

D. Project Safeguards Team

10. Environment safeguard team for the project is given in **Table 1**.

Table 1: Project Safeguard Team

Name	Designation/Office	Email Address	Contact Number
URBAN & TOURISM SECTOR			
1. PMU			
Er. Mihir Kanti Gop	Project Coordinator (Urban & Tourism) PMU TUTDP and In-charge- Safeguard & Gender Cell (SGC)	tuda.trp@gmail.com	9436122818
Not yet assigned	Environmental Safeguards Officer- IC	--	--
2. PIUs			
Cluster IA Towns – PIU- Urban (HQ- Agartala)			
Er Dibyendu Chakma	Executive Engineer, In-charge Environment Safeguard	eedibyendu@gmail.com	7629039641
Er Sukumar Debbarma	Assistant Engineer, Assistant Environment Safeguard	sukumardebbarma1971@gmail.com	9862129334
Cluster IIA Towns – PIU- Urban (HQ- Udaipur)			
Er Natya Kumar Jamatia	Executive Engineer, In-charge Environment Safeguard	jamatianatyakumar@gmail.com	7005344544
Er Sukumar Debbarma	Assistant Engineer, Assistant Environment Safeguard	sukumardebbarma1971@gmail.com	9862129334
Cluster IIIA Towns – PIU- Urban (HQ-Kumarghat)			
Er Rabindra Debbarma	Executive Engineer, In-charge Environment Safeguard	debbarmarabi@gmail.com	9612841897
Er Swarup Pal	Assistant Engineer, Assistant Environment Safeguard	swrppal@gmail.com	9436120709
TOURISM SECTOR			

Name	Designation/Office	Email Address	Contact Number
PIU (Tourism) Agartala			
Er. Uttam Pal	Executive Engineer, In-charge Environment Safeguard	tripuratourism09@rediffmail.com	8974870221
Er. Sunil Podder	Assistant Engineer, Assistant Environment Safeguard	poddarsunil1976@gmail.com Tripuratourism09@rediffmail.com	9330851223
PIU (Tourism) Udaipur			
Er. Sunil Podder	Assistant Engineer, In-charge Environment Safeguard	poddarsunil1976@gmail.com Tripuratourism09@rediffmail.com	9330851223
Er. Jhutan Das	Junior Engineer, Assistant Environment Safeguard	das.jhutan82@gmail.com	9862843578
PIU (Tourism) Kumarghat			
Er. Sunil Podder	Assistant Engineer, In-charge Environment Safeguard	poddarsunil1976@gmail.com tripuratourism09@rediffmail.com	9330851223
Er. Hero Debbarma	Junior Engineer, Assistant Environment Safeguard	herodebbarma041@gmail.com	8974656267
3. Consultants			
PMSC- Urban & Tourism			
Dr. Ardhendu Mitra	Environment Specialist	ardhendumitra@gmail.com	9830415953

11. Safeguard management system for the project is shown below.

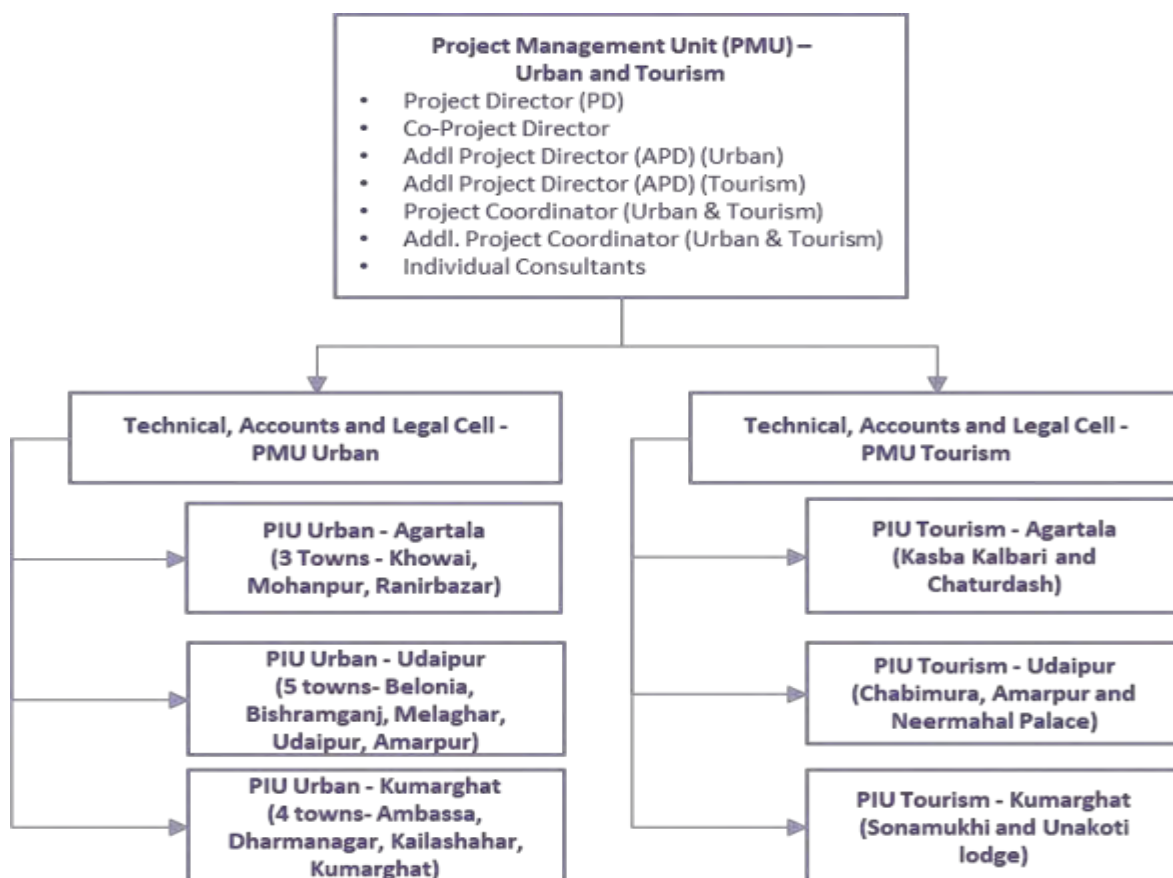


Figure 8: Project Organization structure

E. Overall project and sub-project progress and status

12. There are 10 civil work sub project packages under TUTDP. Summary of work contracts including type of contract (**upto 30th September, 2024**) is shown below.

Parameters	DBO Type Contract	Item Rate Contract
Urban projects		
Total Number of Packages	3	3
Contracts Executed/Completed	0	0
Contracts under Implementation	3	0
Bidding under Progress	0	3
Planning and Design	0	0
Tourism projects		
Total Number of Packages	0	4
Contracts Executed/Completed	0	0
Contracts under Implementation	0	2
Bidding under Progress	0	1
Planning and Design	0	1

13. Other than 10 above packages, there are 4 small packages considered under tourism sector. Three packages are “procurement of goods” packages and one “Tourism Promotion, Marketing and Capacity building consultant” package

14. **Table 2** shows the sub projects and the work packages including the status of award of contracts as on **30th September, 2024**. The contract agreements for 5 packages (3 nos. urban and 2 nos. tourism) have been signed and project work was started for 3 packages (2 urban and 1 tourism) and for 2 packages (1 urban and 1 tourism) preliminary activities have been started.

Table 2: Summary status of Subprojects under TUTDP (on 30th September 2024)

Sr. No.	Package No.	Packages	Status
URBAN PROJECT			
1	TUDA/WS-01/P-01	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works for Cluster IA Towns (Khowai, Mohanpur and Ranirbazar) of Tripura	Commencement date: 06.02.2024 Work under progress, detail in Table 3
2	TUDA/WS-02/P-02	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIA Towns (Udaipur, Amarpur, Bishramganj, Melaghar, and Belonia) of Tripura	Commencement date: 06.02.2024 Work under progress, detail in Table 3
3	TUDA/WS-03/P-03	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIIA Towns (Dharmanagar, Kailashahar, Kumarghat and Ambassa) of Tripura	Commencement date: 06.02.2024 Preliminary activity continued, detail in Table 3
4	TUDA/R &SD -01/P-04	Improvement of Roads and Storm Water Drainage System in Khowai, Ranirbazar and Mohanpur (Cluster IA Towns)	Approval of revised bid document received from ADB. Administrative approval for cost estimate to be obtained from Govt. of Tripura.
5	TUDA/R &SD -02/P-05	Improvement of Roads and Storm Water Drainage System in, Melaghar, Bishramganj, Udaipur, Amarpur and Belonia (Cluster IIA Towns)	Approval of revised bid document received from ADB. NIT was issued on 24 th August 2024.
6	TUDA/R &SD -03/P-06	Improvement of Roads and Storm Water Drainage System in, Dharmanagar, Kailashahar, Kumarghat and Ambassa (Cluster IIIA Towns)	Price bid evaluation report sent to ADB for approval.
TOURISM PROJECT			
7	TTDCL/CHB/W01	Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar	Commencement date: 07.02.2024 Work under progress, detail in Table 3
8	TTDCL/UKT/W04	Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar	Commencement date: 02.03.2024 Preliminary activity continued, detail in Table 3

Sr. No.	Package No.	Packages	Status
9	TTDCL/CKM/W03	Upgradation of visitor amenities/facilities, enhancement of built and natural features at Chaturdash Devta Temple and Kasba Kalibari Temple and Reconstruction of Yatri Niwas at Chaturdash Devta Temple	Technical Bid Evaluation – 2 nd September 2024 – No Objection Letter received from ADB. FBER – Report sent on 21 Sep 2024 and – Approval awaited Financial bid evaluation is completed and contract will be awarded by Q4 2024
10	TTDCL / NER/W02	Adaptive reuse of Neermahal as Digital Museum including planning and design	Concept note submitted DPR will be finalized by Q4 2024.
PROCUREMENT and CONSULTANCY PACKAGE- TOURISM			
11	TTDCL/G-01	Supply of items (i) FRP Kayaks and Accessories (ii) Supply of 30-seater Battery Operated Boats all complete (iii) Supply of Floating Pontoon and Accessories all complete	No progress
12	TTDCL/G-03	Supply and Installation of (i) Children play and Gym Equipment for Chabimura, Fatik Sagar and Sonamukhi and (ii) Supply and installation of adventure activity equipment and accessories all complete at Sonamukhi	No progress
13	TTDCL/G-02:	Supply of Battery-Operated Cart and accessories all complete (8 Carts) for Chabimura and Sonamukhi	No progress
14	TTDCL/CS-01	Tourism Promotion, Marketing and Capacity building consultant	No progress

15. For the awarded packages, contractors have been mobilized and works are just started or to be started. Photo illustration of project activities (sample) is shown in **Appendix 1**.

F. Description of subprojects (package-wise) and status of implementation

16. **Table 3** below shows implementation status of awarded sub project packages upto **30th September 2024**.

Table 3: Status of Implementation of Sub project (30th September 2024)

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
URBAN PROJECTS					
TUDA/WS-01/P-01 (M/s Eco Protection Engineers Pvt. Ltd)	Comprehensive Water Supply Improvement Works for Cluster IA Towns (Khowai, Mohanpur and Ranirbazar) Khowai Work components include: (i) Construction of 2 nos. Deep Tube Well (DTW) with IRP at 2 different locations, (ii) Construction of 1 no. OHSR, 400 KL capacity near WTP Campus ward no. 12, (iii) laying of approx. 1.43 km transmission main, (iv) laying of Approx. 12.51 km (6.749 km remodelling & 5.766 km expansion) water distribution pipeline and (v) installation of bulk flow meter and consumer meter. Mohanpur Work components include: (i) Construction of 5 nos. Deep Tube Well (DTW) at 5 different locations, (ii) Construction of 3 no. Iron Removal Plant (IRP) in 2 OHSR locations (iii) Construction of 2 nos. OHSR, one number 850 KL capacity at old MMC ward no. 15, another	For DBO contract survey and finalization of design under progress for Overhead reservoir, rising main and distribution network. Khowai- DTW near Jibananda School: Boring, Pipe lowering, washing work completed. Rest under progress Mohanpur – 3 nos. DTWs (Near Office Tilla- Ward No.-14, Old MMC- Ward No.-15 and Rabindra palli Kalimandir- ward no 2) completed. One under progress at Bhumihin Colony- ward No.-13. Ranirbazar- 1 no. DTW near Cremation ground, Kali Mandir completed	Contract awarded	<1.0 %	05.02.2027

⁴ If on-going construction, include %physical progress and expected date of completion

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	750 KL capacity at Tulabagan, Ward No-12 (iv) laying of approx. 4.65 km transmission main (raw & clear) , (v) laying of Approx. 11.70 km (10.10 km remodeling & 1.60 km expansion) water distribution pipeline and (vi) installation bulk flow meter and consumer meter. <u>Ranirbazar</u> Work components include: (i) Construction of 3 nos. Deep Tube Well (DTW) at 3 different locations, (ii) Construction of 1 no. Iron Removal Plant (IRP) with a GLSR, (iii) Construction of 2 nos. OHSR, one number 350 KL capacity near Anganwadi ward no. 13, one number 800 KL capacity at Krishna talli, ward no. 11, (iv) laying of approx. 3.95 km transmission main (2.5 km raw water and 1.45 km clear water main), (v) laying of Approx. 17.32 km (10.895 km remodeling & 6.426 km expansion) water distribution pipeline and (vi) installation bulk flow meter and consumer meter.				
TUDA/WS-02/P-02 (M/s Eco Protection Engineers Pvt. Ltd)	Comprehensive Water Supply Improvement Works in Cluster IIA Towns (Udaipur, Amarpur,	For DBO contract survey and finalization of design under progress for Water treatment plant	Contract awarded	<1.0 %	05.02.2027

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	Bishramganj, Melaghar, and Belonia) Udaipur Work components include: (i) Construction of intake structure and approach bridge on River Gomati, (ii) Construction of 7.6 MLD WTP at Banduar, (iii) Laying of approx. 837 m, Dia. 400 mm DI K9 pipe - Raw water Transmission Main & culvert above <i>nallaha</i> for carrying pipe; (iv) Laying of approx. 6.28 km, Dia. (400mm to 250mm) DI K9 Pipes - Clear water Transmission main; (v) Construction of 2 nos. OHSR. one at Bhagini Nibedita School campus (Capacity 900 KL), and one at Ramesh School campus (Capacity 750 KL); (vi) Laying of approx. 26.83 km (Remodelling 8.95 km + Expansion 17.88 km) distribution network; and (vii) Installation of Bulk Flow meter and consumer meters. Amarpur Work involves, remodelling of distribution network of approx. 1.1 km length and expansion of approx. 9.37 km water distribution at newly expanded area with installation of bulk	for Udaipur, Overhead reservoir, rising main and distribution network Belonia- 3 nos. DTWs (Satmura Kali Mandir Area, DM Office, Narayan Smriti Samit) completed. One under progress at Dr. Abul Kalam Azad Community Hall			

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	water meter and domestic consumer meter. <u>Bishramgani</u> Work components include: (i) Installation of pump and pump house for 6 nos. Deep Tube Well (DTW) at 6 different locations which are already sunk by DWS, (ii) Construction of 3 nos. Iron Removal Plant (IRP) near OHSR, (iii) Construction of 3 nos. OHSR, one number 300 KL capacity Near CSC District Manager office, one number 200 KL capacity OHSR at Purba Barjala and one number of 250 KL capacity OHSR at Chesrimai-I (iv) laying of approx. 5.507 km clear water transmission main, (v) laying of Approx. 39.172 km (5.606 km remodelling & 33.566 km expansion) water distribution pipeline and (vi) installation of bulk flow meter & consumer meter. <u>Melaghar</u> Work components include: (i) Construction of 1 no RCC OHT of 450 KL, (ii) laying of Clear Water Transmission Main of approx. 2.0 Km (CWTM), (iii) laying of Approx. 15.668 km (5.787 km remodelling & 9.882				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	km expansion) water distribution pipeline and (iv) installation of bulk flow meter and consumer meter. Belonia Work components include: (i) Construction of Deep Tube Well (DTW) and Iron Removal Plant (IRP) at 5 locations, (ii) construction of OHSR 300 KL and 400 KL near All India Radio ward no. 16 and near Nightangle shelter house ward no.12, respectively, (iii) laying of approx. 4.3 km DI K9 pipe clear water transmission man and (iv) laying of Approx. 19.43 km new (only expansion) water distribution pipeline and (v) installation of bulk flow meter and consumer meter.				
TUDA/WS-03/P-03 {M/s Prem Construction Company -GCKC Projects and Works Pvt. Ltd. (JV)}	Comprehensive Water Supply Improvement Works in Cluster IIIA Towns (Dharmanagar, Kailashahar, Kumarghat, and Ambassa) Dharmanagar Work components include: (i) Construction of intake structure of 14 MLD and approach bridge of 15m on River Kakri/ Juri, (ii) Construction of 10.8 MLD WTP near existing WTP at College Road, (iii) Clear Water	Preliminary activity started. For DBO contract survey and finalization of design under progress for Water treatment plant at Dharmanagar, Kailashahar, and Kumarghat; DWT at Ambassa; and Overhead reservoir, rising main and distribution network at all towns Survey and design of components continued	Contract awarded	0%	05.02.2027

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	Reservoir of 6.8 Lakh litter tank within WTP campus, (iv) Laying of 100 m, Dia. 400 mm DI K9 pipe - Raw water Transmission Main; (v) Laying of 1.235 km, Dia. (150 mm and 200 mm) DI K9 Pipes - Clear water Transmission main; (vi) Construction of 2 nos. OHSR. one at Circuit House (Capacity 250 KL), one at ISBT (Capacity 350 KL); (vii) Laying of approx. 18.006 km (Expansion/ new pipeline of 2.429 km + Remodeling pipeline of 15.577 km) 90-350 mm HDPE/DI pipe distribution network; and (viii) Installation of Bulk Flow meter, consumer meters and SCADA system (at WTP). <u>Kailashahar</u> Work components include: (i) New 4.5 MLD intake structure and approach bridge of length 20 m on Manu River, (ii) New 2.45 MLD WTP, (iii) Laying of 990 m, Dia. 200 mm DI K9 Raw water Transmission Main; (iv) Laying of 3.23 km, Dia. (150mm to 200mm) DI K9 Clear water Transmission main; (v) Construction of 2 nos. OHSR. one at Kalipur (Capacity 300 KL) and other at Kasherghat (Capacity 250 KL);				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	(vi) Laying of approx. 32.58 km (Remodeling 1.58 km + Expansion 31.0 km) distribution network; and (vii) Bulk Flow meter and consumer meters <u>Kumarghat</u> Work components include: (i) New 4 MLD intake structure and approach bridge of length 20 m on Manu River, (ii) New 2.3 MLD WTP with clear water reservoir (iii) Raw water Transmission Main from intake to WTP 100 m, Dia. 200 mm DI K9 pipe; (iv) 3.4 km, (Dia 150mm to 300mm) DI K9 Pipes - Clear water Transmission main; (v) One OHSR at Segregation Centre (Capacity 250 KL), (vi) Approx. 40.89 km (Remodelling approx.7.42 km + Expansion/new approx. 33.47 km) distribution network; and (vii) Bulk flow meter and consumer meters. <u>Ambassa</u> Work components include: (i) New 4 nos. Deep Tube Well (DTW) with Iron Removal Plants (IRP) (ii) One new OHSR at Magazinepara (Ward 14), (iii) Approx. 4.643 km clear water transmission main, (iv) Approx. 20.25 km (4.330 km remodelling & 15.915 km				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	expansion) water distribution pipeline and (v) bulk flow meter and consumer meter.				
TOURISM PROJECTS					
TTDCL/CHB/W01 (M/s BVG India Ltd.)	<u>1. Chabimura Ecotourism destination</u> The whole area is divided into three zones – A, B and C. <u>Zone A include:</u> (i) carpeting of existing external car parking area with cement paver blocks and Procurement of battery- operated boats and golf carts , (ii) remodeling of the entrance plaza by providing MS entry gate, feature wall and ticketing counter, (iii) plastering and painting of Interpretation centre, (iv) adaptive reuse of 4 nos. of TTDCL accommodation units as ticketing counter and guard room, (v) proposed toilet block type 1, (vi) installation of water ATM near entrance gate, (vii) refurbishment of main jetty by increasing seating capacity, (viii) establishment of tree plaza next to main jetty, (ix) provision of 3 x 10,000 litre capacity OHT and (x) refurbishment of the existing toilet block. (xi) provision of Gabion mattress along river edge, and (xii) sewerage network and treatment facility.	- Construction of eco- cottages, driveway and boundary fencing is going on. - A concept notes for installation of a surface water source-based water supply scheme at the destination has been prepared. - New Design based on HFL will have to be considered for the plinth level. The project site is affected due to High flood. Construction work will be resumed after repairing of damaged road and site is accessible. The Chabimura connectivity Road is damaged due to flood and becomes a new challenge for materials transportation. The loss due to the flood was threefold, viz.: 1. Materials: A significant amount of construction materials, including cement, sand, metals, steel, shuttering had been either washed away or rendered unusable due to prolonged exposure to water.	Contract awarded	<1.0 %	06.02.2026

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	The Zone B include: (i) redevelopment of the existing picnic area, (ii) redevelopment of the existing stage with open air theatre, seating arrangements and lawn, (iii) 18 nos. of new gazebos, (iv) development of children's play area with play equipment, (v) setting up new toilet block with store room, (vi) development of double storied 100 seater multi-cuisine restaurant, (vii) provision of kayak storage and changing room with FRP kayak jetty and (viii) a new water ATM, (ix) underground water supply network (x) Gabion matters along the river edge and (xi) sewerage network and treatment facility.. The Zone C have: (i) a new water ATM, (ii) landscape and pavement development around Swadesh Darshan 10 log huts, (iii) provision of decks with swings towards north of existing footbridge, (iv) 50 seater single storied eco-restaurant north of 6 Swadesh Darshan log huts, (v) broad walk and foot bridge connecting Swadesh Darshan log huts, (vi) development of 16 new eco-cottages, (vii) 6+6 male and	2. Machinery: Several heavy-duty machines, including excavators, Ajax, Diesel Generator, concrete mixer, etc. had been damaged. Water infiltration had caused severe electrical and mechanical failures in these machines, rendering them non-operational. 3. Approach road: The flooding had caused substantial erosion and complete damage to the approach road. Mitigation measures/ corrective measures and future planning-- - All manpower and most equipment were shifted ahead of the flood. There was some recorded material and equipment damage. In case of flood at future urgent shifting of material and equipment will be required. Emergency preparedness and Disaster Management proposal-- - Management plan will be developed for advance application of mitigation measures - Responsibility matrix will be prepared for disastrous situation <u>Rectification of design - increase of plinth level as per HFL</u> - The decision to raise the Plinth Level from 0.45m above EGL/ HFL to 0.70 m above Govt declared HFL and adjust the plinth levels of key residential and commercial habitats in Chabimura, such as the Eco Restaurant, Proposed Cottage,			

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	female staff quarter with washroom and manager room, (viii) scent and butterfly garden, (ix) two mini roads, one 1.8 m wide and other 4.5 m wide along with two small bridges connecting the roads near eco-restaurant, (x) retaining wall and fencing wherever required along with driveway, underground water supply network, sewerage network and septic tank systems (xi) provision of waste collection bins for segregated waste and composting facility for biodegradable waste (xii) sewer network and treatment facility, and (xiii) Gabion mattress along the river edge. <u>2. Waterfront development of Fatiksagar lake</u> <u>North Bank development:</u> (i) laying paver's block 900 mm pathway from north west ghat to end of north bank and 1800 mm pathway from north ghat to north east ghat, (ii) refurbishment of northwest ghat, (iii) setting up bamboo wood benches with viewing deck, (iv) renovating outlet on north bank, (v) establishing equipment for open air gym and children's play area at	and Office Quarters, responds to the flooding experienced in August 2024. These changes are part of a broader effort to reduce flood risks and protect infrastructure. - The Plinth Level increase accounts for the possibility of more extreme flooding, driven by factors like changing weather patterns and increased rainfall. The adjustment reflects the updated understanding of local flood behavior, with the goal of providing better protection against future floods. This higher threshold ensures infrastructure is safeguarded during severe events. <u>Protection work planned near river including stabilization of work sites</u> - Already, a gabion wall has been considered in the design as shore protection measure and to combat the flooding in the future - Re-arrangement of different units due to Gomati River bank erosion, enhance under flood condition			

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	northeast bank, (vi) installation of a tube well with minimum yield of 35 cum/hr at maximum 20 m drawdown and (vii) a guard wall with railing towards north east side of the lake <i>Southern bank development:</i> (i) refurbishment of southwest ghat, (ii) laying of pathway from southwest ghat to southeast ghat, (iii) provision of 3 nos. of gazebos and rain shelters. Overall area- Provision of Water ATMs and portable bio-toilets will be installed for use by the tourists. <u>3. Waterfront development of Amarsagar lake</u> Development towards north, west and 70 m of south bank will comprise of: (i) repairing existing pathway at west bank to south west bank, (ii) repairing existing retaining wall of north bank and repairing of existing railing at ghat staircases, (iii) construction of railing for 7 existing ghat staircases, (iv) provision of wooden and MS frame benches, (v) setting up MS framed pergolas over 3 seating area (2 at north, 1 at south) along the bank, (vi) provision of 2 nos. of 10X6 sq. m vending area, (vii)				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	constructing 5 access pathways from road to existing pathways together with lighting & electrical fittings, one water ATM and 44 litre pole mounted dustbins. Portable bio-toilets will be installed for use by the tourists.				
TTDCL/UKT/W04 (M/s Tribeni Constructions Ltd.)	1. <u>Development of Eco-Accommodation and adventure park at Sonamukhi Eco-accommodation zone:</u> (i) Development of entrance gate and parking area for about 55 cars and procurement of battery-operated golf carts (ii) Development of 16 standard cottages, 12 deluxe cottages and 4 suites; (iii) Administrative building including office and reception along with 75 seater restaurant, swimming pool, indoor games, gymnasium, and conference room; (iv) development of a 680 sq. m banquet hall; (v) Staff and manager quarters; (vi) Lawn with open seating; (vii) Camping area with toilets; (viii) Toilets at parking area; (ix) Pathways and driveways for internal movement; (x) Two tube wells for water supply; and water supply network and (xi) sewerage network and	- Initial Surveys are completed. - Master plan is revised due to change in project boundary. - Contractor has started topographical survey and cleaning of vegetation	Contract awarded	0%	01.03.2026

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	treatment facility. (xii) Diesel generator sets and Fire extinguishers <i>The Adventure Zone</i> (i) Entrance foyer and Parking area for accommodating 72 cars, 32 two wheelers, 2 bus parking, 2 ambulances and a fire tender (ii) Kiosks and toilets (iii) A 75 seater restaurant (iv) Children play areas, (v) Adventure gaming zone (vi) Hiking trail (vii) Other facilities – ticketing, toilets, water ATM (viii) Utilities such as water supply, sewerage network, treatment facilities, solid waste management (ix) pathways, driveways, service road, (x) retaining wall and fencing wherever required (xi) provision of waste collection bins for segregated waste and composting facility for biodegradable waste and (xii) sewer network and treatment facility. (xiii) Diesel generator sets and Fire extinguishers. <u>2. Refurbishment of Unakoti Tourist Lodge at Kailashahar</u> The works in this sub-component will comprise of: (i) Dismantling of existing flooring in all rooms and ancillary facilities; (ii) Dismantling of				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	existing toilets and provision of new toilets with fittings; (iii) Rearrangement of Kitchen, dining and meeting rooms; (iv) Dismantling of existing staircase railing and provision of new stainless steel railing; (v) Procurement and installation of lift; (vi) provision of gym and indoor play area (vii) wall panelling, false ceiling, cupboards and other furnishings; (viii) Plastering and painting of interiors and exteriors of the building (ix) Integrated landscaping (x) Air conditioning for all rooms, reception, meeting and dining, indoor play area and gymnasium (xi) Provision of transformer, generator of 50 kVA and external lighting (xii) Provision of 150 mm bore well, 100 m deep with iron removal and chlorination system (xiii) Provision of waste collection bins for segregated waste and composting facility for biodegradable waste and (xiv) Sewage treatment facility – STP of 7.5 KLD capacity with MBR technology (xv) Provision of fire hydrant and sprinkler system, (xvi) Provision of sign board for all areas (male,				

Package Number (Contractor)	Components/List of Works- as per IEE	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) ⁴	Contract Status (specify if under bidding or contract awarded)	If On-going Construction	
				% Physical Progress	Expected Completion Date
	female and staff toilet, room number, room description, directional, danger, etc.).(xvii) Dismantling of all existing doors and provision of new glass door and wooden door; Paver block flooring surrounding the main building (xvii) Water proofing on the terrace (xix) Provision of air condition unit in reception cum waiting area, indoor play room, gym area as well as meeting and dining room(xx) Diesel generator sets and Fire extinguishers.				

17. After award of contracts and during design few Deep tube well and water reservoir locations changed, due to non-availability of land and design issues. Package wise and town wise change locations are shown in Table below. New locations are not nearby any sensitive or protected areas. No additional impact is envisaged due to location change. PMU will submit an addendum to the IEE to document the changes in locations, assessment of impacts for new locations, discussion on whether earlier EMP is still sufficient/will not require an update, and conclusion/ recommendations. After complete design for all components, IEE will be updated for the said sub projects.

Table 4: Changed location and Environment Features

Package	Town	Components	Locations as per IEE	New location	Site photo & Features around new locations	Reason of location change
TUDA/WS-01/P-01 Cluster IA water supply	Ranirbazar	DTW	Near Devi Nagar ward no. 9	Near Cremation ground, Kali Mandir	 • Vacant govt. land • Access road is available • Houses are located nearby • One religious place located nearby, outside of impact zone • Cremation ground located near tube well location, no impact on cremation ground • No tree felling is required • No water body nearby the new site	Narrow approach road at earlier location, difficult to transport construction materials
TUDA/WS-02/P-02 Cluster IIA water supply	Belonia	DTW- IRP	DTW- IRP near Nightangle Shelter House	DTW - IRP adjacent Dr. Abul Kalam Azad community Hall	 • Vacant govt. community land • Access road is available • Houses and commercial area located near the new location • No tree felling is required • No water body nearby • No sensitive receptors nearby the site	After designing it is noted earlier land is not sufficient for DTW and water reservoir. Also low land nearby.

Package	Town	Components	Locations as per IEE	New location	Site photo & Features around new locations	Reason of location change
	Belonia	DTW- IRP	DTW with IRP near ICV college	DTW 4 with IRP nearby Marchis Factory	 • Vacant govt. land • Access road is available • Houses are located near the DTW location • No tree felling is required • No water body nearby • No sensitive receptors nearby the site	Earlier location rejected by DWS, since one tube well already located within 100 m of the of ICV college – earlier location. Also avoid tree felling at ICV campus, earlier location
	Belonia	DTW	DTW near All India Radio	DTW near Satmura Kalibari	 • Vacant govt. land • Temporary access road is available • Few houses are located near the DTW site • No tree felling is required • No water body nearby • No sensitive receptors nearby the site	To avoid tree felling at earlier location, new site is selected nearby the earlier site
	Belonia	OHSR	OHSR- near Nightangle Shelter House	OHSR- 400 KL adjacent Dr. Abul Kalam Azad community Hall, near DTW		After designing it is noted earlier land is not sufficient for DTW and water reservoir. Also low land nearby.

Package	Town	Components	Locations as per IEE	New location	Site photo & Features around new locations	Reason of location change
	Belonia	OHSR and IRP	OHSR near All India Radio	OHSR 300 KL and IRP near Satmura S.B. School	  	To avoid tree felling at earlier location, new site is selected nearby the earlier site

Package	Town	Components	Locations as per IEE	New location	Site photo & Features around new locations	Reason of location change
					 - Proposed components are in school land- NOC received. - Vacant undulating land will be used for construction of OHSR and IRP - One Anganwadi⁵ is located nearby, outside of impact zone - One tree is located, felling will depend on actual layout of reservoir - Access at site available - High tension line passing the land. Shifting may be required as per final design⁶	
	Udaipur	OHSR	OHSR 2: 750 KL at Ramesh School campus	OHSR near Rajarshi Town hall		NOC from Education dept. Govt. of Tripura not received for earlier location. For that shifting of location has been decided.

⁵ It is a type of rural childcare centre in India

⁶ Discussion has been conducted with electricity dept., Govt. of Tripura. HT line will be shifted at safe distance (3.7 m) from the project area as per their norms.

Package	Town	Components	Locations as per IEE	New location	Site photo & Features around new locations	Reason of location change
					 • Proposed components are in govt. land • Land presently vacant, waste disposed part of the land • Houses are located nearby • No trees are noted on the land • Access at site available • Low lands are located nearby • One DTW pump house nearby the proposed site	

II. COMPLIANCE STATUS WITH NATIONAL/ STATE/ LOCAL SATATUTORY ENVIRONMENTAL REQUITREMENTS

18. For implementation of the project both national and state rules & regulations need to be followed. **Table 5** below indicates environment legal compliance status for the awarded projects under TUTDP.

19. Before and during implementation of the project, compliance with environmental policy, law and legislation is necessary.

20. Present status of Environment, forest and other clearances are mentioned below.

Table 5: National/State/Local Statutory Environmental Requirements (30th September 2024)

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
TUDA/WS-01/P-01	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works for Cluster IA Towns (Khowai, Mohanpur and Ranirbazar) of Tripura	The EIA notification, 2006 (and its subsequent amendments in 2009) provides for categorization of projects into category A and B, based on extent of impact	The sub project is not covered in the ambit of the EIA notification, as this is not covered under either Category A or Category B of the notification. As a result, the categorization, and the subsequent environmental assessment and clearance requirements, either from the state or the central Government is not triggered. Environmental Clearance is not required for the proposed project	Not Applicable (NA)	None	NA
		Water (Prevention and Control of Pollution) Act of 1974, Rules of 1975, and amendments Act was enacted to provide for the prevention and	No project- water supply components attract provisions of Water act and not requiring CTE and CTO from TSPCB.	Not Applicable (NA)	None	NA

⁷ Specify (environmental clearance? Permit/consent to establish? Forest clearance? Etc.)

⁸ Specify if obtained, submitted and awaiting approval, application not yet submitted

⁹ Example: Environmental Clearance requires ambient air quality monitoring, Forest Clearance/Tree-cutting Permit requires 5 trees for every tree, etc.

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		control of water pollution and the maintaining or restoring of wholesomeness of water, by Central and State Pollution Control Boards and for conferring on and assigning to CPCB/SPCBs powers and functions relating to water pollution control. Such projects have to obtain Consent to Establish (CTE) under Section 25 of the Act from Tripura State Pollution Control Board (TSPCB) before starting implementation and Consent to Operate (CTO) before commissioning.				
		The Air (Prevention and Control of Pollution) Act 1981, amended 1987 and The Air (Prevention and Control of Pollution) Rules, 1982 During implementation (construction phase) compliance will be required This Act was enacted to achieve prevention, control	Following will require CTE and CTO from TSPCB: Establishment of DG sets more than 1 MVA. Batching Plant, and Hot mix plants, if any If ready mix concrete and hot mix bitumen is procured from third	NA	CTO will be collected as per requirement and with advancement of project Compliance of condition. Till report	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		and abatement of air pollution activities by assigning regulatory powers to Central and State boards for all such functions. The Act also establishes ambient air quality standards. Pollution under control certificate (PUC) to be obtained by the contractor for all vehicles and equipment engaged in the project	party, contractor must ensure that the plants, from where material is being purchased is having valid CTE & CTO and copy should be collected from third party and submitted in PIU Purchase of materials not yet started. Obtained for engaged vehicle and equipment	Validity upto March 2025 (sample attached as Appendix 2)	period not applicable PUC certificate will be collected for new vehicle-equipment if any. Also, renewal will be required as per validity	
		Construction and Demolition Waste Management Rules, 2016 Rules to manage construction and to waste resulting from construction, remodeling, repair, and demolition of any civil structure. Rules define "construction waste" as	Construction and demolition waste generated from the project construction shall be managed and disposed as per the rules Accordingly, NOC will be obtained for disposal of demolition waste	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		waste comprising of building materials, debris resulting from construction, re-modeling, repair, and demolition of any civil structure.	Not required till report period			
		Ministry Of Jal Shakti (Mojs) Notification Dated 24.09.2020 With Amendment Notification Dated 29.03.2023], India Consolidated MoJS Guidelines to Regulate and Control Ground Water Extraction in India	NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor. (application attached in Appendix 5) NOC has been obtained from state PWD (Drinking water sanitation, DWS) for withdrawal of ground water for supply through Deep tube well. Application has been done to CGWA for further NOC before commissioning of Deep Tube well for supply of drinking water	NA	None	NA
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules,	No forest land is involved.	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		1981 amended 1992 and 2003 In case of tree felling NOC needs to be obtained from Forest dept./ concerned dept.	No tree felling required	To be updated if any tree felling required	Till report period no tree felling is required. Tree felling NOC will be obtained if required with advancement of work	
		Wildlife (Protection) Act 1972, Amendment Act, 1993 and 2002 and Wildlife (Protection) Rules, 1995	No Wildlife protected area within or nearby the project area	NA	None	NA
		The Ancient Monument and Archaeological Sites and Remains (Amendment and Validation) Act 2010 Tripura Ancient Monuments and Archaeological Sites and Remains Act 1997	No protected area within or nearby the project area. But chance find protocol will be maintained	NA	Chance finds protocol to be maintained	NA
		Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Partly Complied Labour licence obtained for Ranirbazar and Mohanpur towns. (Attached as Appendix 3) For Khowai application has been	Ranirbazar and Mohanpur towns, Validity upto 10.06.2025	To comply with the requirements as specified in the issued license.	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
			done ¹⁰			
		Labour compensation insurance	Complied Worker compensation insurance policy obtained for all the 3 project towns under the package (Attached as Appendix 4)	Validity upto 21.08.2025	To ensure all potential risks are covered.	NA
TUDA/WS-02/P-02	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIA Towns (Bishramganj, Melaghar, Udaipur, Amarpur and Belonia) of Tripura	The EIA notification, 2006 (and its subsequent amendments in 2009) provides for categorization of projects into category A and B, based on extent of impact	The sub project is not covered in the ambit of the EIA notification, as this is not covered under either Category A or Category B of the notification. As a result, the categorization, and the subsequent environmental assessment and clearance requirements, either from the state or the central Government is not triggered. Environmental Clearance is not required for the	NA	None	NA

¹⁰ Due to technical problem of the district portal unable to received copy.

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
			proposed project			
		Water (Prevention and Control of Pollution) Act of 1974, Rules of 1975, and amendments Act was enacted to provide for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water, by Central and State Pollution Control Boards and for conferring on and assigning to CPCB/SPCBs powers and functions relating to water pollution control. Such projects have to obtain Consent to Establish (CTE) under Section 25 of the Act from Tripura State Pollution Control Board (TSPCB) before starting implementation and Consent to Operate (CTO) before commissioning.	No project water supply components attract provisions of Water act and not requiring CTE and CTO from TSPCB.	Not Applicable (NA)	None	NA
		The Air (Prevention and Control of Pollution) Act 1981, amended 1987 and The Air (Prevention and	Following will require CTE and CTO from TSPCB: Establishment of DG	NA	CTO will be collected as per requirement	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Control of Pollution) Rules, 1982 During implementation (construction phase) compliance will be required This Act was enacted to achieve prevention, control and abatement of air pollution activities by assigning regulatory powers to Central and State boards for all such functions. The Act also establishes ambient air quality standards. Pollution under control certificate (PUC) to be obtained by the contractor for all vehicles and equipment engaged in the project	sets more than 1 MVA. Batching Plant, and Hot mix plants, if any If ready mix concrete and hot mix bitumen is procured from third party, contractor must ensure that the plants, from where material is being purchased is having valid CTE & CTO and copy should be collected from third party and submitted in PIU Purchase of materials not yet started. Obtained for engaged vehicle and equipment	Validity upto January 2025 (sample attached as Appendix 2)	and with advancement of project Compliance of condition. Till report period not applicable PUC certificate will be collected for new vehicle-equipment if any. Also, renewal will be required as per validity	
		Construction and Demolition Waste Management Rules, 2016	Construction and demolition waste generated from the	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Rules to manage construction and to waste resulting from construction, remodeling, repair, and demolition of any civil structure. Rules define "construction waste" as waste comprising of building materials, debris resulting from construction, re-modeling, repair, and demolition of any civil structure.	project construction shall be managed and disposed as per the rules Accordingly, NOC will be obtained for disposal of demolition waste Not required till report period			
		Ministry Of Jal Shakti (Mojs) Notification Dated 24.09.2020 With Amendment Notification Dated 29.03.2023], India Consolidated MoJS Guidelines to Regulate and Control Ground Water Extraction in India	NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor. (application attached in Appendix 5) NOC has been obtained from state PWD (Drinking water sanitation, DWS) for withdrawal of ground water for supply through Deep tube well. Application has been done to CGWA for further NOC before commissioning of Deep	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
			Tube well for supply of drinking water			
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003 In case of tree felling NOC needs to be obtained from Forest dept./ concerned dept.	No forest land is involved. No tree felling required	NA To be updated if any tree felling required	None Till report period no tree felling is required. Tree felling NOC will be obtained if required with advancement of work	NA
		Wildlife (Protection) Act 1972, Amendment Act, 1993 and 2002 and Wildlife (Protection) Rules, 1995	No Wildlife protected area within or nearby the project area	NA	None	NA
		The Ancient Monument and Archaeological Sites and Remains (Amendment and Validation) Act 2010 Tripura Ancient Monuments and Archaeological Sites and Remains Act 1997	No protected area within or nearby the project area. But chance find protocol will be maintained	NA	Chance finds protocol to be maintained	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Partly Complied Labour licence obtained for Udaipur and Amarpur towns. (Attached as Appendix 3) For Bishramganj, Melaghar, Belonia, application has been done ¹¹	Udaipur and Amarpur towns Validity upto 20.09.2025	To comply with the requirements as specified in the issued license.	NA
		Labour compensation insurance	Complied Worker compensation insurance policy obtained for all the 3 project towns under the package (Attached as Appendix 4)	Validity upto 21.08.2025	To ensure all potential risks are covered.	NA
TUDA/WS-03/P-03	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIIA Towns (Dharmanagar, Kailashahar, Kumarghat and Ambassa) of Tripura	The EIA notification, 2006 (and its subsequent amendments in 2009) provides for categorization of projects into category A and B, based on extent of impact	The sub project is not covered in the ambit of the EIA notification, as this is not covered under either Category A or Category B of the notification. As a result, the categorization, and the subsequent environmental assessment and	NA	None	NA

¹¹ Due to technical problem of the district portal unable to received copy

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
			clearance requirements, either from the state or the central Government is not triggered. Environmental Clearance is not required for the proposed project			
		Water (Prevention and Control of Pollution) Act of 1974, Rules of 1975, and amendments Act was enacted to provide for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water, by Central and State Pollution Control Boards and for conferring on and assigning to CPCB/SPCBs powers and functions relating to water pollution control. Such projects have to obtain Consent to Establish (CTE) under Section 25 of the Act from Tripura State Pollution Control Board (TSPCB)	No project water supply components attract provisions of Water act and not requiring CTE and CTO from TSPCB.	Not Applicable (NA)	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		before starting implementation and Consent to Operate (CTO) before commissioning.				
		The Air (Prevention and Control of Pollution) Act 1981, amended 1987 and The Air (Prevention and Control of Pollution) Rules, 1982 During implementation (construction phase) compliance will be required This Act was enacted to achieve prevention, control and abatement of air pollution activities by assigning regulatory powers to Central and State boards for all such functions. The Act also establishes ambient air quality standards. Pollution under control certificate (PUC) to be obtained by the contractor for all vehicles and equipment engaged in the	Following will require CTE and CTO from TSPCB: Establishment of DG sets more than 1 MVA. Batching Plant, and Hot mix plants, if any If ready mix concrete and hot mix bitumen is procured from third party, contractor must ensure that the plants, from where material is being purchased is having valid CTE & CTO and copy should be collected from third party and submitted in PIU Purchase of materials not yet started. To be collected with progress of work	NA NA	CTO will be collected as per requirement and with advancement of project Compliance of condition. Till report period not applicable None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		project Ministry Of Jal Shakti (Mojs) Notification Dated 24.09.2020 With Amendment Notification Dated 29.03.2023], India Consolidated MoJS Guidelines to Regulate and Control Ground Water Extraction In India	NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor. NOC has been obtained from state PWD (Drinking water sanitation, DWS) for withdrawal of ground water for supply through Deep tube well. Application to be done to CGWA for further NOC before commissioning of Deep Tube well for supply of drinking water	NA	None	NA
		Construction and Demolition Waste Management Rules, 2016 Rules to manage construction and to waste resulting from construction, remodeling, repair, and demolition of any civil structure. Rules define "construction waste" as waste comprising of	Construction and demolition waste generated from the project construction shall be managed and disposed as per the rules Accordingly, NOC will be obtained for disposal of demolition waste Not required till report	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		building materials, debris resulting from construction, re-modeling, repair, and demolition of any civil structure.	period			
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003 In case of tree felling NOC needs to be obtained from Forest dept./ concerned dept.	No forest land is involved. No tree felling required	NA To be updated if any tree felling required	None Till report period no tree felling is required. Tree felling NOC will be obtained if required with advancement of work	NA
		Wildlife (Protection) Act 1972, Amendment Act, 1993 and 2002 and Wildlife (Protection) Rules, 1995	No Wildlife protected area within or nearby the project area	NA	None	NA
		The Ancient Monument and Archaeological Sites and Remains (Amendment and Validation) Act 2010 Tripura Ancient	No protected area within or nearby the project area. But chance find protocol will be maintained	NA	Chance finds protocol to be maintained	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Monuments and Archaeological Sites and Remains Act 1997				
		Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Not yet received. Work not started	NA	To be obtained immediately	NA
		Labour compensation insurance	Not yet received. Work not started	NA	To be obtained immediately	NA
TTDCL/CHB/W 01	Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar	The EIA notification, 2006 (and its subsequent amendments in 2009) provides for categorization of projects into category A and B, based on extent of impact. Environment clearance is required for building and construction project. The Chabimura tourist destination triggers the provisions of Environment clearance from State Level Environment Impact Assessment Authority/ State level Expert Appraisal Committee, Tripura for built up area of ≥ 20000 sq m	As per components wise project details, built up area of the project is 6746.60 sq mts, less than or equal to 20,000 sq mts. Hence no environment clearance is required from SEIAA. Confirmation letter is attached as Appendix 5 . In case of sand procurement necessary approval documents – permit received from the contractor (sample attached as Appendix 6)	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Sand mining for construction works (if required), requires environment clearance under EIA act. (list of already approved sand mines in Tripura is available on TSPCB website ¹²) PIU/PMU has to ensure that contractor is procuring mining material from approved mines only or get EC for new mines.				
		Water (Prevention and Control of Pollution) Act of 1974, Rules of 1975, and amendments Act was enacted to provide for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water, by Central and State Pollution Control Boards and for conferring on and assigning to CPCB /	CTE and CTOs are required for establishment of hotels having > 20 rooms and < 100 rooms under orange category After finalization of sewage treatment plant design CTE and CTO for entire project site of Chabimura covering all aspects of establishment will be	NA	Will be applied online to Pollution Control Board	NA

¹² <https://tspcb.tripura.gov.in/sand-mining-ec/>

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		SPCBs powers and functions relating to water pollution control. Such projects have to obtain Consent to Establish (CTE) under Section 25 of the Act from Tripura State Pollution Control Board (TSPCB) before starting implementation and Consent to Operate (CTO) before commissioning.	taken from pollution control board.			
		The Air (Prevention and Control of Pollution) Act 1981, amended 1987 and The Air (Prevention and Control of Pollution) Rules, 1982 During implementation (construction phase) compliance will be required This Act was enacted to achieve prevention, control and abatement of air pollution activities by assigning regulatory powers to Central and State boards for all such functions. The Act also establishes ambient air quality standards.	Following will require CTE and CTO from TSPCB: Establishment of DG sets more than 1 MVA. Batching Plant, and Hot mix plants, if any Green – Silent Diesel Generator in use. No requirement of CTE and CTO If ready mix concrete and hot mix bitumen is procured from third party, contractor must ensure that the plants, from where material is being purchased is	NA	CTO will be collected as per requirement and with advancement of project Compliance of condition. Till report period not applicable	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Pollution under control certificate (PUC) to be obtained by the contractor for all vehicles and equipment engaged in the project	having valid CTE & CTO and copy should be collected from third party and submitted in PIU Purchase of materials started. Royalty paid by the construction agency as per applicable charge. Sample of the receipt attached as Appendix 6. Obtained for engaged vehicle and equipment	NA Validity upto July 2025 (sample attached as Appendix 2)	None PUC certificate will be collected for new vehicle-equipment if any. Also, renewal will be required as per validity	
		Guideline for use of surface/ ground water for construction purpose	Applied to water resource department for getting NOC for withdrawal of surface water from Gomati River for construction purpose (application attached in Appendix 5)	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Construction and Demolition Waste Management Rules, 2016 Rules to manage construction and to waste resulting from construction, remodeling, repair, and demolition of any civil structure. Rules define "construction waste" as waste comprising of building materials, debris resulting from construction, re-modeling, repair, and demolition of any civil structure.	Construction and demolition waste generated from the project construction shall be managed and disposed as per the rules Accordingly, NOC will be obtained for disposal of demolition waste Not required till report period	NA	None	NA
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003 In case of tree felling NOC needs to be obtained from Forest dept./ concerned dept.	No forest land is involved. No tree felling required	NA To be updated if any tree felling is required	None Till report period no tree felling is required. Tree felling NOC will be obtained if required with	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
					advancement of work	
		Wildlife (Protection) Act 1972, Amendment Act, 1993 and 2002 and Wildlife (Protection) Rules, 1995	No Wildlife protected area within or nearby the project area	NA	None	NA
		The Ancient Monument and Archaeological Sites and Remains (Amendment and Validation) Act 2010 Tripura Ancient Monuments and Archaeological Sites and Remains Act 1997	No protected area within or nearby the project area. But chance find protocol will be maintained	NA	Chance finds protocol to be maintained	NA
		Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Labour licence obtained. Attached in Appendix 3 ,	Validity upto 04.09.2025	To comply with the requirements as specified in the issued license.	NA
		Labour compensation insurance	Complied Worker compensation insurance policy obtained for the package (Attached as Appendix 4)	Validity upto 11.01.2025	To ensure all potential risks are covered.	NA
TTDCL/UKT/W04	Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti	The EIA notification, 2006 (and its subsequent amendments in 2009) provides for categorization	As per components wise project details, built up area of the project is 13852.50 sq	NA	None	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
	Tourist Lodge at Kailashahar	of projects into category A and B, based on extent of impact. Environment clearance is required for building and construction project. The Sonamukhi tourist destination triggers the provisions of Environment clearance from State Level Environment Impact Assessment Authority/ State level Expert Appraisal Committee, Tripura for built up area of ≥ 20000 sq m Sand mining for construction works (if required), requires environment clearance under EIA act. (list of already approved sand mines in Tripura is available on TSPCB website¹³) PIU/PMU has to ensure that contractor is procuring mining material	mts, less than or equal to 20,000 sq mts. Hence no environment clearance is required from SEIAA. Confirmation letter is attached as Appendix 5. In case of sand procurement necessary approval documents – permit received from the contractor (sample attached as Appendix 6)			

¹³ <https://tspcb.tripura.gov.in/sand-mining-ec/>

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		from approved mines only or get EC for new mines.				
		Water (Prevention and Control of Pollution) Act of 1974, Rules of 1975, and amendments Act was enacted to provide for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water, by Central and State Pollution Control Boards and for conferring on and assigning to CPCB / SPCBs powers and functions relating to water pollution control. Such projects have to obtain Consent to Establish (CTE) under Section 25 of the Act from Tripura State Pollution Control Board (TSPCB) before starting implementation and Consent to Operate (CTO) before commissioning.	CTE and CTOs are required for establishment of hotels having > 20 rooms and < 100 rooms under orange category After finalization of sewage treatment plant design CTE and CTO for entire project site of Sonamukhi covering all aspects of establishment will be taken from pollution control board.	NA	Will be applied online to Pollution Control Board	NA
		The Air (Prevention and Control of Pollution) Act 1981, amended 1987 and	Following will require CTE and CTO from TSPCB:	NA	CTO will be collected as per	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		The Air (Prevention and Control of Pollution) Rules, 1982 During implementation (construction phase) compliance will be required This Act was enacted to achieve prevention, control and abatement of air pollution activities by assigning regulatory powers to Central and State boards for all such functions. The Act also establishes ambient air quality standards. Pollution under control certificate (PUC) to be	Establishment of DG sets more than 1 MVA. Batching Plant, and Hot mix plants, if any Green – Silent Diesel Generator in use. No requirement of CTE and CTO If ready mix concrete and hot mix bitumen is procured from third party, contractor must ensure that the plants, from where material is being purchased is having valid CTE & CTO and copy should be collected from third party and submitted in PIU Purchase of materials started. Royalty paid by the construction agency as per applicable charge. Sample of the receipt attached as Appendix 6. Obtained for engaged	NA Validity	requirement and with advancement of project Compliance of condition. Till report period not applicable None PUC certificate	

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		obtained by the contractor for all vehicles and equipment engaged in the project	vehicle and equipment	upto June 2025 (sample attached as Appendix 2)	will be collected for new vehicle-equipment if any. Also, renewal will be required as per validity	
		Construction and Demolition Waste Management Rules, 2016 Rules to manage construction and to waste resulting from construction, remodeling, repair, and demolition of any civil structure. Rules define "construction waste" as waste comprising of building materials, debris resulting from construction, re-modeling, repair, and demolition of any civil structure.	Construction and demolition waste generated from the project construction shall be managed and disposed as per the rules Accordingly, NOC will be obtained for disposal of demolition waste NOC for disposal of waste/ garbage has been issued by Kailashahar MC (Copy attached as Appendix 7)	No	None	
		Ministry Of Jal Shakti (Mojs) Notification Dated 24.09.2020 With Amendment Notification Dated 29.03.2023], India Consolidated MoJS Guidelines to Regulate and	NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor. (application attached in Appendix 5)			

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Control Ground Water Extraction In India				
		The Indian Forest Act, 1927; Forest (Conservation) Act, 1980, amended 1988; Forest (Conservation) Rules, 1981 amended 1992 and 2003 In case of tree felling NOC needs to be obtained from Forest dept./ concerned dept.	No forest land is involved. No tree felling required	NA To be updated if any tree felling required	None Till report period no tree felling is required. Tree felling NOC will be obtained if required with advancement of work	NA
		Wildlife (Protection) Act 1972, Amendment Act, 1993 and 2002 and Wildlife (Protection) Rules, 1995	No Wildlife protected area within or nearby the project area	NA	None	NA
		The Ancient Monument and Archaeological Sites and Remains (Amendment and Validation) Act 2010 Tripura Ancient Monuments and Archaeological Sites and	No protected area within or nearby the project area. But chance find protocol will be maintained	NA	Chance finds protocol to be maintained	NA

Package No.	Subproject Name	Statutory Environmental Requirements ⁷	Status of Compliance ⁸	Validity if obtained	Action Required	Specific Conditions that will require environmental monitoring as per Environment Clearance, Consent/Permit to Establish ⁹
		Remains Act 1997				
		Labour licence under The Contract Labour (Regulation & Abolition) Act, 1970. (Central Act w.e.f. 07-09-70)	Labour licence obtained. Attached in Appendix 3 ,	Validity upto 04.08.2025	To comply with the requirements as specified in the issued license.	NA
		Labour compensation insurance	Complied Worker compensation insurance policy obtained for the package (Attached as Appendix 4)	Validity upto 04.02.2025	To ensure all potential risks are covered.	NA

21. Status of land clearances are provided in social safeguard monitoring report.

III. COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS

22. The loan agreement for TUTDP was signed on 22nd December 2023 (Loan effective – 20th March 2024) and details are available in ADB website (<https://www.adb.org/projects/documents/ind-53276-002-lna>). **Table 6** provides a summary of compliance to the loan covenants related to environmental safeguards.

Table 6: Compliance of Loan Covenants – Environment

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
SCHEDULE 4			
Conditions for Award of the Contract			
7	The Borrower shall ensure, or cause the EA and the Implementing Agencies to ensure, that no Works contracts are awarded for any Project activities that involves environmental impacts until the EA has (a) prepared, submitted, and obtained final approval of the relevant IEE from ADB and the relevant environment authority of the State and Borrower as applicable; and (b) incorporated the relevant provisions from the respective EMP into the related Works contract	Being Complied (a) Environment Impact assessment document – IEE have been prepared, submitted, and obtained final approval of relevant IEE from ADB and borrower. After that contracts have been awarded. (b) After environmental assessment relevant provisions of EMP attached in the bid document and works contract.	
SCHEDULE 4			
Safeguards – Environment			
10	The Borrower shall ensure or cause the EA and implementing agencies to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, and all projects' facilities comply with (a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; (b) the Environmental Safe-guards, (c) all measures and requirements set forth in the respective IEE (including the heritage impact assessment wherever applicable) and EMP, and (d) any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Being Complied (a) Document preparation, design, construction, implementation of the Project, and all projects' facilities complying all relevant State and National Laws related to Environment, health, and safety, Safeguard Policy Statement (SPS 2009) of ADB. (b) Draft Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB at bidding stage. Only for packages, Tourism Destination Development at Chabimura and Upgradation/	Urban packages For DBO contracts – Cluster IA and Cluster IIA water supply packages – design completed partially. As per construction contractor and technical team of PMSC, major design will be over by January 2025. After receive of final design IEEs for both the packages will be

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
		Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01) and Development of Sonamukhi Eco accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDCL/UKT/W 04)- updation of IEE have been done in the month of May 2024 after finalization of the design. Heritage impact assessment has been done as per requirement. (c) All measures set forth in respective IEE and EMP will be applied during implementation of the project. (d) Corrective or preventive action plans reflected in Environment Monitoring Report and project implementation authority take care of such actions as per requirement. Observed non-compliances are rectified through agreed corrective and preventive actions.	done by January/ February 2025. Design for Cluster IIIA water supply, progress slowly. As per construction contractor and technical team of PMSC, design will be over by February 2025. After receive of final design IEE for the package will be done by March 2025 For Road and Drainage package, in case of change in locations, scope IEE will be updated. Till date no road & drainage packages are awarded Since finalization of design delayed, Addendum – showing change locations details, assessment of additional impacts (if any) for new locations for cluster IA and IIA WS will be submitted by December 2024. <u>Tourism package</u> Some design modification under progress for Chabimura package. After finalization of design IEE will be updated.
Human and Financial Resources to Implement Safeguards Requirements			
14	The Borrower shall, or cause the EA and implementing Agencies to make available necessary budgetary and human resources to fully implement the EMPs (as applicable)	Being Complied Budgetary provisions have been included in EMP Project coordinator, in-charge of Environment and Social	Tentative recruitment of Individual consultant – Environment safeguard- by December 2024

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
		Safeguard is in place in Project Management Unit heading Safeguard Monitoring Unit. One Individual consultant – Environment safeguard will be recruited to support PMU for environmental compliance An Environment Specialist placed within Project Management and Supervision Consultant (PMSU) to support PMU and PIU	
Safeguards Related Provisions in Bidding Documents and Works Contracts			
15	The Borrower shall ensure, or cause the EA and the Implementing Agencies to ensure, that all bidding documents and contracts for Works contain provisions that require Contractors to: (a) comply with the measures and requirements relevant to the Contractor set forth in the IEE, EMP and any corrective or preventative actions set out in a Safeguards Monitoring Report; (b) make available a budget for all such environmental measures. (c) provide the EA and Implementing Agencies with a written notice of any unanticipated environmental risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, EMP as applicable;	Being Complied EMP, BOQ line items, reinstatement to pre-project conditions included in the contract agreement. (a) Approved IEE, EMP is attached in Bidding documents. In case of any change of scope, updated IEEs with EMP(s) will be prepared and corrective measures will be disclosed to the Contractor and same will be reflected in the "Environment Monitoring Report". Both Urban and Tourism project contractors done base line pre-construction monitoring and survey of pre-works condition. Budget has been allocated for EMP application and monitoring. Pre-construction documents submitted by Contractors for 2 tourism packages and 2 urban packages. During construction monitoring to be continued as per EMP and Environment Monitoring Plan. (b) IEE includes budgetary provisions for implementation of EMP for all the packages. (c) During implementation of any project if additional impacts/risks arise due to change in scope/area that will be reflected in the revised IEEs, EMPs and Environment Monitoring Report and accordingly project Executing Agency will	In case of any change in scope, updated IEEs with EMP(s) will be prepared and corrective measures will be disclosed to the Contractor

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
	(d) adequately record the condition of roads, agricultural land, and other infrastructure prior to starting to transport materials and construction; and (e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	inform the Construction Contractor for taking relevant corrective measures. Since finalization of design delayed, Addendum – showing change locations details, assessment of additional impacts (if any) for new locations for cluster IA and IIA WS will be submitted by December 2024. Under emergency flood condition contractor informed the EA- IA through photographic evidence and letter and EA - IA stopped work under critical condition (d) Haul roads have marked properly (by avoiding residential and agricultural land) before commencement of transportation of materials. (e) Pathways, and land which are/ to be affected for varying periods during implementation of the sub project will be restored by concerned construction Contractor before acceptance of the work. Restoration status will also be reflected in post construction monitoring report. No impact still report period, since no pipelaying work is started till report period.	
Safeguards Monitoring and Reporting			
16	The Borrower shall cause the EA to do the following: (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission. (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the relevant IEEs,	Being Complied (a) 1st SEMR for the period March to September 2024 to be submitted on October 2024. After approval of that report, it will be disclosed in ADB and project website (b) During implementation of any project, if additional impacts/risks arise due to change in scope/area, those will be reflected in revised IEEs with EMPs and accordingly	IEE/ EMP will be revised in case of inclusion of additional impact and change in design, location/ scope for the project

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
	EMPs, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any breach of compliance with the measures and requirements set forth in the relevant EMP, promptly after becoming aware of the breach.	Executing Contractor (EA) will inform the ADB such change along with corrective action plan which will be reflected in the subsequent Monitoring Reports. During report period one incident is occurred, which impact Chabimura tourism project site. The incident was, “The incessant rainfall during the month of August-September of 2024 caused extensive flooding in various parts of the Tripura state. The Gomati River, which flows alongside the project site of Chabimura, also swelled up during the rains. As a result of the increased flow of water, the Gomati River overflowed its banks and caused flooding in the project site. Work stopped for atleast 2 months and project area destroyed. Impact and mitigation measures explained in Table 3. Project EA/ PMU report such an incidence in details to ADB Detail Flood technical report is attached in Appendix 17. (c) in case of any breach of compliance with the measures and requirements set forth in the EMP, EA will promptly inform ADB and suitable corrective action program will be planned/initiated. Since finalization of design delayed, Addendum – showing change locations details, assessment of additional impacts (if any) for new locations for cluster IA and IIA WS will be submitted by December 2024. After finalization of complete design IEE for the DBO contract will be submitted in February/ March 2025 Recruitment of IC – Environment in PMU – under	

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
		process. Expected to be completed by December 2024. Similarly, selection of Environment expert under process. Health, safety officer is already in place for all the awarded packages except cluster IIIA water supply. Application has been done to CGWA for withdrawal of ground water for construction purpose by the contractor and application has been done by the project authority for withdrawal of ground water for supply of water. Expected to receive NOC by January 2025	
Prohibited List of Investments			
17	The Borrower shall ensure or cause the EA to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Complied There is no violation of prohibited investment activities as per ADB SPS (2009) Appendix 5.	
Labour Standards			
18	The Borrower shall ensure or cause the EA to ensure, that Works contracts under the Project follow all applicable labor laws of the Borrower and the State, and that these further include provisions to the effect that Contractors: (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.	Being Complied (i) Provision is included (as per EMP & BID document) to carry out HIV/AIDS awareness programs for Construction Contractor, application of all relevant labour laws for health and safety including child labour law and engagement of local labours (preferably from economically backward group) covering women labours. HIV/ AIDS training program will be conducted after complete mobilization of the workers. (ii) No child labour engaged in the packages. Rules on equal pay for equal work to follow. Tie up with health institutes done by the contractors of 4 packages (Appendix 8) Health checkup done for 2 urban sector projects and for Chobimura tourism package. (Appendix 9) Health related WC policy for workers available for two tourism	HIV- AIDS training program to be conducted on 6 monthly basis. In addition, H & S training needs to be continued for the contract packages HSE induction training conducted and to be conducted at the time of the mobilization of workers.

Serial No. as per Loan Agreement	Program Specific Covenants	Status / Issues	Action Required
		packages, TTDCL/CHB/W 01 and TTDCL/UKT/W 04 and two urban water supply packages, TUDA/WS-01/P01 and TUDA/WS-02P02 (Appendix 4) In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken up. All activities including awareness program reflected in “Monitoring Report”.	

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN

23. There are 5 **civil works contract packages** (3 urban and 2 tourism) under implementation. Site Environment plans including site specific EMPs (SEMP) were submitted by the contractors before starting of each construction package. Compliance status of SEMP is also available with PIU. **Table 7** shows package wise EMP implementation status.

Table 7: Package wise EMP Implementation Status¹⁴ – upto September 2024

Package No	Components	Design status (Preliminary Design Stage/ Detailed Design Completed	Final IEE based on Detailed Design				Site specific EMP (or construction EMP) approved by project implementation agency (Yes/ No)
			Not yet due (detailed design not yet completed)	Submitted to ADB (provide date of submission)	Disclosed on ADB and project website (Provide link)	Final IEE provided to Contractors (Yes/No)	
Urban Project							
WS-01/P-01	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works for Cluster IA Towns of Tripura	DBO contract: design under process Initial design finalized for DTW, rest under process	Updated IEE will be submitted after finalization of all design PMU will update the IEEs/submit addendum to the IEEs based on completed designs before the start of relevant works.	IEE prepared before bidding Report submitted and accepted by ADB on June 2023	ADB website - https://www.adb.org/projects/documents/ind-53276-002-ie TUDA website- https://drive.google.com/file/d/1n5tW1gr-bEsrGhR_dQs_MlFksgkCvtGm/view	Yes. Disclosed draft IEE provided to contractor. After updation, final IEE will also be provided	Yes Prepared by contractor for Deep tube well where construction just started
WS-02/P-02	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIA Towns of Tripura	DBO contract: design under process Initial design finalized for DTW, rest under process	Updated IEE will be submitted after finalization of all design PMU will update the IEEs/submit addendum to the IEEs based on completed designs before the start of relevant works.	IEE prepared before bidding Report submitted and accepted by ADB on June 2023	ADB website – https://www.adb.org/projects/documents/ind-53276-002-ieee-0 TUDA website- https://drive.google.com/file/d/18KC6oEojTSqz_XO86hblhsUEw5D8LvXH/view	Yes. Disclosed draft IEE provided to contractor. After updation, final IEE will also be provided	Yes Prepared by contractor for Deep tube well where construction just started

¹⁴ Package awarded and under implementation

Package No	Components	Design status (Preliminary Design Stage/ Detailed Design Completed	Final IEE based on Detailed Design				Site specific EMP (or construction EMP) approved by project implementation agency (Yes/ No)
			Not yet due (detailed design not yet completed)	Submitted to ADB (provide date of submission)	Disclosed on ADB and project website (Provide link)	Final IEE provided to Contractors (Yes/No)	
WS-03/P-03	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIIA Towns of Tripura	DBO contract: design under process	Updated IEE will be submitted after finalization of all design PMU will update the IEEs/submit addendum to the IEEs based on completed designs before the start of relevant works.	IEE prepared before bidding Report submitted and accepted by ADB on June 2023	ADB website: https://www.adb.org/projects/documents/ind-53276-002-iee-1 TUDA website: https://drive.google.com/file/d/1SYCm3QtCCX51APyQFzZNhYrCXo18k-f/view	Yes. Disclosed IEE provided to contractor After updation, final IEE will also be provided	Draft SEMP submitted Physical activity yet to start
Tourism Project							
TTDCL/CHB/W 01	Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar	Item rate contract-design completed.	Updated IEE submitted after finalization of all design	IEE prepared before bidding Further updated report submitted and accepted by ADB on May 2024	ADB website: https://www.adb.org/projects/documents/ind-53276-002-iee-9	Yes. Updated IEE disclosed provided to contractor	Yes SEMP submitted for entire package and accepted by PIU After flood event and updation of complete design IEE will be updated before commencement of work
TTDCL/UKT/W 04	Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar	Item rate contract-design completed.	Updated IEE submitted after finalization of all design	IEE prepared before bidding Further updated report submitted and accepted by ADB on May 2024	ADB website: https://www.adb.org/projects/documents/ind-53276-002-iee-8	Yes. Updated IEE disclosed provided to contractor	Yes SEMP submitted for entire package and accepted by PIU In case of change in scope and design further updation will be carried out for IEE and SEMP

A. Implementation Arrangement

24. Urban Development Department (UDD) of Government of Tripura (GOT) is the executing agency, and the implementing agencies are Tripura Urban Planning and Development Authority (TUDA, for urban component) and Tripura Tourism Development Corporation Limited (TTDCL, for tourism component). A Project Management Unit (PMU) established with the secretary, UDD as the project director and secretary, Department of Tourism (DOT), GOT, as co-project director. The PMU also include two additional project directors (one each for urban and tourism), a project coordinator, and an additional project coordinator. Six project implementation units (PIUs) established to cover urban and tourism components separately and located at Agartala, Udaipur and Kumarghat. Project Management & Supervision Consultant (PMSC) already engaged to assist PMU and the PIUs for implementation of the project.

25. A Steering Committee, headed by Chief Secretary have been notified will provide strategic guidance, and oversee the implementation of the investment project. Project Executive Committee, headed by the secretary UDD established for monitoring program implementation. Terms of reference of the committee is included in the notification. Notification is also done for formation of PMU and PIUs. All notifications are attached in **Appendix 10**. Notification for Environment and Social safeguard team at PMU and PIU levels for urban and tourism project under process.

B. Environmental Safeguards Implementation Arrangements and Responsibilities

26. At PMU, the project coordinator at PMU will be the nodal officer for environmental, social safeguards and gender and responsible for ensuring compliance with ADB's Safeguards Policy Statement (SPS), 2009, during the project implementation, including the monitoring and reporting. PMU will engage a qualified and experienced consultant, designated as environmental safeguards officer (ESO), to support project coordinator in environmental safeguards tasks. Project manager or assistant project manager of PIU will be designated as safeguards focal in each PIU. PMSC team included an Environmental Safeguards Specialist (ESS), and three support safeguards staff, located in PIUs, and will provide all necessary support and expert guidance to PMU and PIUs. Contractor appointed Health and Safety (HS) officer for day-to-day monitoring at site.

27. **Project Management Unit (PMU).** The PMU is responsible for planning, management, coordination, supervision, and progress monitoring. The PMU has the responsibility of fulfilling environmental requirements of the government and ensuring effective implementation of the environmental management provisions in the IEEs, EMPs and civil works contracts. The following are the key environmental safeguard tasks and responsibilities of the ESO at the PMU:

- Ensure project compliance with the statutory environmental requirements, ADB SPS 2009, and loan covenants
- Ensure that draft IEEs prepared based on preliminary designs are updated to reflect the final project facility detailed designs, and are approved by ADB and disclosed prior to bid invitation (for works contracts) and commencement of works (for design-build contract)
- Ensure that IEEs including EMPs are included in bidding documents and contracts
- Ensure that baseline monitoring as suggested in the EMPs are conducted and base values established prior to commencement of works

- Ensure that detailed environmental audit conducted for existing facilities and corrective actions are included in project for implementation
- Coordinate with design engineers to avoid potential environmental impacts
- Ensure that SEMP's are submitted by contractor and cleared by PIU prior to commencement of works
- Ensure that construction works are not commenced until all applicable government clearances, permits (including those required by construction contractor) are obtained;
- Oversee and ensure that contractors and their subcontractors comply with labor laws and rules
- Ensure that the IEEs including EMPs are updated in case of any change project scope, design or location during implementation
- Confirm compliance with all measures and requirements set forth in the IEEs, the EMPs and any corrective or preventive actions set forth in safeguard monitoring reports;
- Finalize environmental sections quarterly progress reports, and environmental monitoring reports for submission to ADB
- Ensure availability of budget for safeguards activities
- Ensure adequate awareness campaigns, information disclosure among affected communities and timely disclosure of final IEEs/EMPs and SEMRs, including corrective action plans, if any, in project website and in a form accessible to the public;
- Assist in setting up of grievance redress mechanism (GRM), identifying grievance redressal committee (GRC) members and developing capacity of GRC members, PIUs, consultants, and contractors in addressing environmental safeguards-related issues/concerns/complaints;
- Ensure any grievances brought about through the GRM are redressed in a timely manner;
- Organize periodic capacity building and training programs on safeguards for PMU, PIUs and contractors.

28. **Project Implementation Units.** The PIUs will be responsible for the day-to-day activities of project implementation in the field and will have direct supervision of all contractors. PIUs will oversee and monitor the day-to-day progress and implementation including environmental safeguards. The following are the key environmental safeguard tasks and responsibilities of the safeguards focal at the PIU with the PMSC's support safeguard staffs.

- Promptly report to PMU on any changes in project design / location / scope during the design verification and implementation phase and coordinate with PMSC to update IEEs and EMPs
- Liaise with local offices of regulatory agencies and ensure that clearances /approvals are obtained timely;
- Take necessary action for obtaining right-of-way prior to start of works;
- Review and approve contractor SEMP's;
- Oversee implementation of SEMP's by contractors
- Ensure that contractors and their subcontractors comply with labor legislations and standards; ensure that workers are accommodated, paid and treated according to the requirements
- Ensure strict implementation of occupational health and safety requirements
- Review monthly reports from contractors on EMP implementation, and support PMU in preparing quarterly reports and SEMRs
- Ensure continuous public consultation and awareness.

- Coordinate grievance redress process and ensure timely actions by all parties;
- Support all other environmental safeguards-related activities and tasks of the PMU as may be needed.
- Recommend issuance of construction work completion certification to the contractor upon verification of satisfactory post-construction clean-up.

29. **Project Management and Supervision Consultant (PMSC).** The PMU and PIUs will be supported by PMSC's Environmental specialist and three support safeguard staffs. Key tasks will include, but not limited to, the following:

- Assist in preparing, updating, reviewing, implementing, monitoring, and reporting of all tasks related to environmental safeguards as required
- Monitoring of EMP implementation, regulatory compliance, grievance redress, reporting etc.,
- Provide all necessary support and expert guidance to ESO and SO in managing environmental safeguards tasks
- Work closely with design teams to include environmental considerations in project facility location, design and technical specifications
- Update IEEs and EMPs as needed to reflect detailed designs, changes in design verification and/or implementation phase of project facilities
- Assist in public consultations, feedback, and reporting
- Ensure that the relevant provisions of EMPs, including costs of implementing the EMPs, are fully included in bid and contract documents, particularly in the bill of quantities and cost line items;
- Identify statutory clearances / permissions / approvals required and assist in obtaining them;
- Assist in including standards/conditions of regulatory clearances and consents, if any, in the project design;
- Conduct training, capacity building activities for PMU, PIU and contractors
- Ensure compliance with ADB's disclosure requirements as per the SPS;
- Assist PMU/PIUs in reviewing and approving contractor SEMP, and other associated plans
- Carry out site verification, and monitor the EMP implementation and ensure compliance by the contractors and subcontractors;
- Ensure that contractors and their subcontractors comply with labor legislations; ensure that workers are paid and treated according to the labor legislations
- Identify any non-compliances or unanticipated impacts and recommend corrective actions
- Prepare environmental safeguards section in quarterly reports
- Prepare semi-annual environmental monitoring reports
- Assist in operating GRM effectively
- Advise contractor on appropriate actions on grievances, ensure timely resolution and proper documentation; and
- Support all other environmental safeguards-related activities and tasks of the PMU and PIUs as may be needed.

30. **Contractor.** The approved draft IEEs and EMPs are included in bidding and contract documents. The PMU and PIUs ensured that bidding and contract documents include specific provisions requiring contractors to comply with: (i) all applicable laws and regulations relating to

environment, health and safety; (ii) reinstate pathways, other local infrastructure, and agricultural land to at least to their pre-project condition upon the completion of construction; (iii) all applicable labor laws and core labor standards on (a) prohibition of child labor as defined in national legislation, international treaties for construction and maintenance activities; (b) equal pay for equal work of equal value regardless of gender, ethnicity, or caste; (c) no discrimination in respect of employment and occupation; (d) allow freedom of association and effectively recognize the right to collective bargaining, and (e) elimination of forced labor; and (iv) the requirement to disseminate information on sexually transmitted diseases, including HIV/AIDS, to employees and local communities surrounding the project sites. The contractor appointed a full-time Safety officer and appointed/ to be appointed Environment expert on-site to implement the EMP. Safety officer and Environment Expert will assist contractor in the following:

- Prepare SEMP and submit to PMU/PIU for approval prior to start of construction
- Comply with the measures mentioned in the IEEs, the EMPs, and SEMRs
- Ensure implementation of SEMP and report to PIU/PMSC on any new or unanticipated impacts
- Ensure that necessary pre-construction and construction permits are obtained
- Ensure to adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and
- Conduct orientation, daily briefing sessions, toolbox talks, to workers on environment, health and safety;
- Provide appropriate worker facilities at the workplace and labor camps as per the requirements and contractual provisions;
- Carry out site inspections on a regular basis and prepare site inspection checklists/reports;
- Record EHS incidents and undertake remedial actions;
- Conduct environmental monitoring (air, noise, etc.,) as per the monitoring plan
- Prepare monthly EMP monitoring reports and submit to PIU
- Comply with labor legislations, and ensure that subcontractors also implement labor legislations requirements, through cascading of requirements to subcontractors—HR policy, labor management requirements, any worksite specific grievance redress mechanism.
- Work closely with PIU and PMSC to ensure communities are aware of project-related impacts, mitigation measures, and GRM;
- Receive, record, and redress grievances in an effective and timely manner.
- Provide the PIU/ PMU with a written notice of any unanticipated environmental, impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP;
- Reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction;
- Site clearance and restoration after the completion of works

31. Environment Specialist of PMSC visited active construction sites every month for audit of EMP application, assess shortfall of EMP application and arranged onsite training program for contractors and supervisory staff and instructed contractors for application of corrective action measures to mitigate impacts. **Table 8** shows detail of safeguard personal from contractor. **Table 1** shows project safeguard Team.

Table 8: Details of Contractor's safeguard officer for TUTDP

Designation	Name and Contact Details
URBAN PACKAGES	
Contractor- Eco Protection Engineers Pvt. Ltd. Package: TUDA/WS-01/P-01 (Cluster IA water supply) Safety Officer	Name: Vignesh G. Phone: 7010650363 Email: mgvi90@gmail.com eco.tripura@gmail.com
Contractor- Eco Protection Engineers Pvt. Ltd. Package: TUDA/WS-02/P-02 (Cluster IIA water supply) Safety Officer	Name: Selvaganapathy. S Phone: 7010855457 Email: selvam1496@gmail.com eco.tripura@gmail.com
Contractor- Prem Construction Company Package: TUDA/WS-03/P-03 (Cluster IIIA water supply) Safety Officer	To be engaged
TOURISM PACKAGES	
Contractor- BVG India Ltd. Package: TTDCL/CHB/W 01 (Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar) Safety Officer	Name: Mr. Sunny Kumar Phone: 6201497876 Email: sunnykumarray56@gmail.com
Contractor: Tribeni Construction Limited Package: TTDCL/UKT/W04 (Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar) Safety officer:	Name: Mr. Sahed Parwez Phone: 9432586656 Email: shahidsafety28@gmail.com
Environment Safeguard Expert:	Name: Mr. Subrata Sinha Phone: 9836006555 Email: sukamala1995@gmail.com

32. **Figure 9** shows institutional arrangement for safeguard implementations for the project.

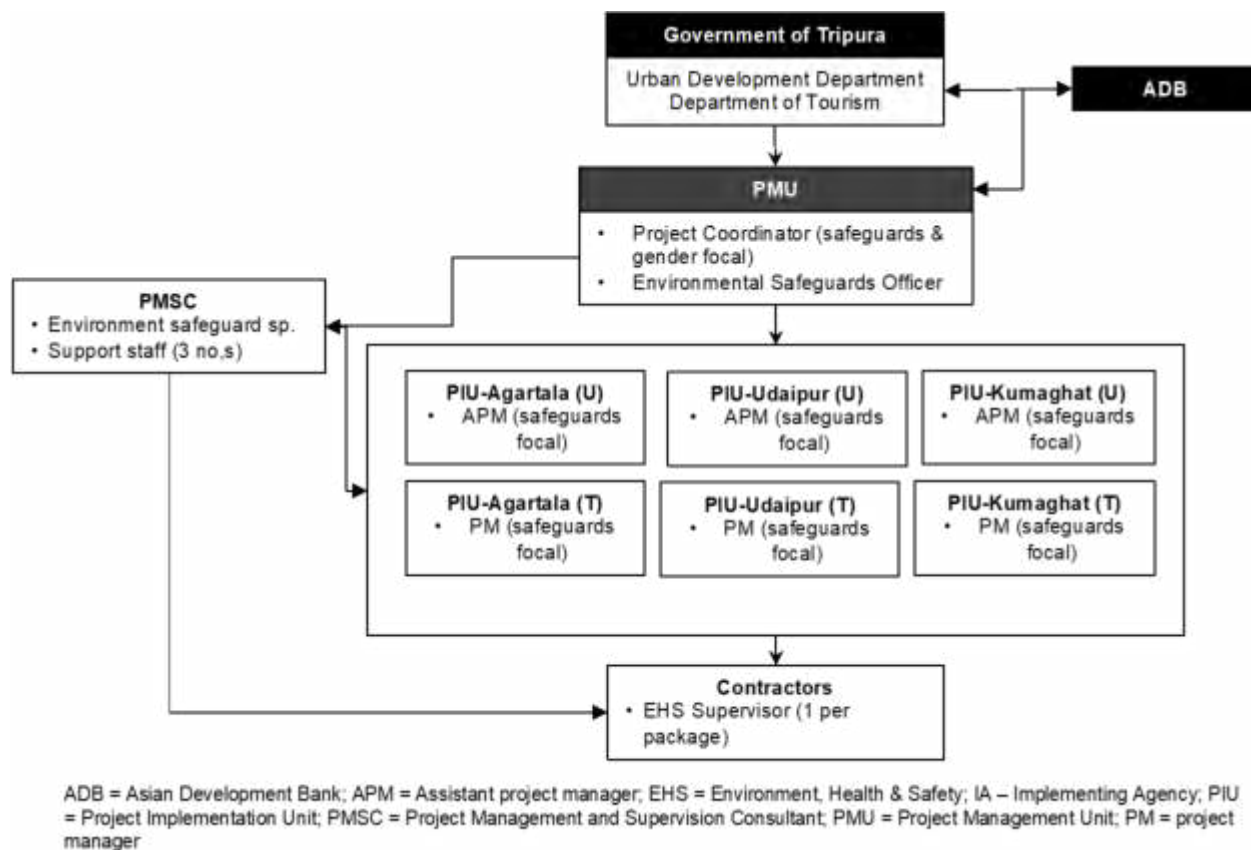


Figure 9: Overall Institutional Arrangement – Safeguards

C. EMP implementation - Application of Mitigation measures

33. Environment Specialist from PMSC carried out periodic monitoring of EMP implementation through desk review of contractor's documents and site inspections. Package wise status of Environment Monitoring for the package TUDA/WS-01/P-01 (Cluster IA water supply) and TUDA/WS-02/P-02 (Cluster IIA water supply) is shown in **Table 9**. Monitoring is also started for the tourism packages, TTDCL/CHB/W 01 (Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar) and TTDCL/UKT/W04 (Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar). For package TTDCL/UKT/W04 preliminary activity - preparation of land under progress. **Table 10 and 11** shows the compliance status, respectively.

34. Contractors for all the 4 packages (where construction started) has already complied pre construction/ implementation requirements like collection of PUC certificate, labour license (attached as **Appendix 3**), Workman Compensation Policy (attached as **Appendix 4**) and completed base line monitoring (Report certificate available with PMSC and PIU).

Table 9: Summary of Environmental Monitoring Activities for the Package WS-01/P-01: Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works for Cluster IA Towns of Tripura and Package WS-02/P-02: Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIA Towns of Tripura

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Design Phase								
Source sustainability and efficiency	- Select sustainable water source - The entire system is designed to maintain optimal flow and terminal pressure, and optimizing the overall energy usage - To meet the drinking water standards, implementation of a water quality surveillance program - Using low-noise and energy efficient pumping systems - Installing the noise-producing pumps and motors etc., in enclosed buildings with noise reducing walls, and also maintaining adequate buffer to the nearby inhabited areas - Provision of appropriate personal protection equipment to the workers and staff	- Design philosophy - Project QA/QC plan - Selection methodology for distribution network	Document review and LOP Survey	All project locations	Before commencement of final design	Environment Specialist and support of PMSC; PIU	Detailed design under process particularly water transmission and distribution pipeline, OHR. necessary points as mentioned in IEE are considered during finalization of design	Detailed design under process particularly water transmission and distribution pipeline, OHR. necessary points as mentioned in IEE are considered during finalization of design
Nearby community may be affected due to increased pollution during construction and	Sites should be selected so that nearby community may have no or minimum impact due to proposed works	- Checking of selected sites - Checking of mitigation measures of EMP	- Site observation - Desk review of documents	All project locations	During design	Environment Specialist and support of PMSC; PIU	Considered during detailed design	Considered during detailed design

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
operation	Mitigation measures are prepared and included in design and EMP is attached with contract documents							
Impact on sensitive areas (ASI monuments, and Ramsar wetland) due to proposed construction works	- During the detailed design, PIU to consult ASI (in Udaipur / Agartala) with exact distance and depth of waterlines works within 300 m of the monuments, and include any feedback or measures as suggested by ASI in into design/construction; obtain prior ASI permission for construction if required - Prior to commencement of construction, consult with concerned religious authorities of these temples, nearby people and devotees and explain the work method and duration of proposed works, take their suggestions and comments in scheduling and conducting the works - Prevent dust, noise, accumulated water, and contaminated surface runoff from the work sites; take necessary measures as needed (these are presented in construction phase impacts-measures)	Provision in final design and crosschecking of mitigation measures as prescribed in EMP	Document checking	Specific project locations	During design	Environment Specialist and support of PMSC; PIU	- Fuel will be stored as per norms - Proper diversion of waste water - Selection of camp outside the sensitive areas. - Waste will be disposed at designated area These are all to be considered in design and during implementation of the project	- All considered during detailed design - At present work not started near Ramsar site at Melaghar and ASI protected site at Udaipur. All mitigation measures will be applied during work near sensitive areas

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	▪ No construction camps (workers accommodation, material / waste / soil storage) should be established within 500 m of the monuments in Udaipur ▪ No construction camps (workers accommodation, material / waste / soil storage) should be established within 1000 m (1 km) from the boundary of Rudrasagar lake; camps should not be located close to drainage lines/streams that flow into Rudrasagar lake ▪ All project related site staff, construction workers and supervisors, shall be made aware of the sensitive sites, and prevent any harm or damage or disturbance to trees, vegetation, wildlife, birds etc., ▪ Proper accommodation and facilities shall be provided within the camps, and workers shall not use the lake or surroundings for open defecation, bathing, or fishing / hunting, collecting firewood etc. Contractor should put in place, a proper system to							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	monitor the staff and workers to prevent damage/disturbance. - Do not use equipment that generate heavy noise, ground vibration, dust etc., (such as pneumatic drills, dozers etc., within 100 m of temples, or within 500 m of Rudrasagar lake - Schedule works during dry season to avoid contaminated runoff from the work sites entering lake; clear the sites of materials, debris, and consolidated the refilled trenches prior to onset of monsoon - Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; - Place storage areas for fuels and lubricants away from any drainage leading to water bodies; - Store fuel, construction chemicals etc., on an impervious floor, also avoid spillage by careful handling - Dispose any wastes generated by construction activities in designated sites; and							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	- Conduct surface quality inspection according to the environmental management plan (EMP). - Conduct continuous consultations with the local people during the works							
Damage to infrastructure and potential risks: project area in High earthquake risk zone (Zone V)	Designs of project component structures shall comply with relevant codes of design such as Bureau of Indian Standard (BIS) specifications for earthquake resistant design (IS: 1893: Criteria for earthquake resistant design of structures).	Design document	Document checking	All project locations	Always – during design	Environment Specialist and support of PMSC; PIU	Considered in final design	Considered in final design
Groundwater contamination	- Prevent flow of untreated wastewater in the drains - Measures should be taken to control the open defecation, and to close all unsafe latrines (for example pit latrines). - Awareness programs shall be conducted regarding the sanitation practices and its effect on groundwater quality	- Checking of provision in the design and consideration of facility - Awareness program document	Document checking	All project locations	Always – during design	Environment Specialist and support of PMSC; PIU	Provision considered in design to check contamination of ground water	Provision considered in design to check contamination of ground water
Contamination from nearby non-functional septic tank – at Belonia	- Use of nonpermeable pipes MS/ PVC and other components for DTW construction - Depth of DTW will be 200 m and strainer at	Final design drawing	- Document checking - Site observation	At Belonia DTW location	During design	Environment Specialist and support of PMSC; PIU	Not applicable	Considered in the design

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	160 m and below reduces chance of any contamination - Ensure a minimum of 30 m distance from septic tank / its discharge point. If land available, this distance can be increased to 50 m - The borewell and septic tank should be on the opposite corners and preferably diagonally opposite to each other with sufficient distance.							
Water quality and ecological impacts- River Intakes (at Udaipur)	- Do not utilize the environmental flow for supply; ensure that environmental flow is available in the river all times; limit the abstraction to allowable limits - Design inlet of intake pipe in the river with appropriate screen to avoid entry of aquatic organisms into inlet - Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon. - Schedule the construction works during low water level period – late winter months to pre	- Work plan - Design provision - Water quality and ecological status	- Design document checking - Site observation	At Udaipur intake site	During design	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for Udaipur. Mitigation and monitoring will be conducted as per EMP provision

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	monsoon (November - March); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage - Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam - Implement work site safety at works in water body							
Water Treatment Plant (WTP) design (at Udaipur)- Inefficient	Design treatment process that is suitable for raw water source characteristics duly	- Design document - Ground water and surface water quality monitoring	- Design document checking - Quality report	At Udaipur WTP	During design	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for Udaipur. Application of mitigation measures and

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
treatment, treated water characteristics not satisfying the standards	considering the seasonal variation in quality if any - Duly consider quality of groundwater that will be supplemented for surface water supply variations - Treated water and supplied water at consumer end should meet the drinking water standards all times							monitoring will be conducted as per EMP provision
Water Treatment Plant (WTP) design (at Udaipur)- Design to prevent pollution due to wastewater and sludge	Ensure that the following are included in the WTP design: - Backwash water reuse system and sludge recovery and disposal system - Backwash recycling components: Filter backwash holding tank, recovered water storage tank and pumping for recycling - Sludge management system components: Gravity thickeners for sludge from clarifiers, mechanical sludge dewatering system, storage facility for dewatered sludge - Disposal of sludge at a landfill or the disposal site provided by the ULB	Detailed design document	Design checking	At project office- Udaipur	During design	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for Udaipur. Application of mitigation measures and monitoring will be conducted as per EMP provision

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Water Treatment Plant (WTP) design (at Udaipur)- Sludge management	- Prepare sludge management plan for safe handling and disposal of sludge from WTP - Estimate the quantity of sludge / solids generated from the WTP during the detailed design phase, and likely composition based on the raw water quality and process chemicals - Minimize the quantity of solids generated by the water treatment process through optimizing coagulation processes; - Recover process chemicals to the extent possible to minimize / prevent the disposal - Carryout pre-treatment prior to disposal - Dispose dried sludge / solids from WTP at approved solid waste landfill / disposal site identified by ULB; this should be identified during the detailed design phase - Evaluate the option of land application during the operation stage; conduct quality tests on the first batch of sludge generated from the WTP, check for physico-chemical	Detailed design document	Design checking	At project office- Udaipur	During design	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for Udaipur. All provision of mitigation under EMP will be considered

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	characteristics including heavy metals - Manage hazardous/harmful waste if any, as per the Hazardous Waste Management Rules - Employ safe and beneficial methods for disposal of dried sludge: in building and construction industry, brick / tile manufacturing etc.,							
Chlorine handling and application risk – health and safety risk to workers and public	In final design, the following measure will be provided at the chlorine application unit: - Chlorine neutralization pit with a lime slurry feeder - Chlorine absorption and neutralization facility - Proper ventilation, lighting, entry and exit facilities - Visible and audible alarm facilities to alert chlorine gas leak - Facility for isolation in the event of major chlorine leakage - Eye wash and shower facility - Personal protection and safety equipment for the operators in the chlorine plant (masks, oxygen cylinders, gloves, etc.,)	- Project emergency management plan - Project safety and PPE use plan - Training plan	Document review	WTP site	During detail design, before commencement of work	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for WTP Provision considered within the design. Authorization under “The manufacture, storage and import of hazardous chemicals rules, 1989” should be followed.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	- Provide training to the staff in safe handling and application of chlorine; this shall be included in the contract of Chlorinator supplier - Supplier of Chlorinator equipment shall provide standard operating manual for safe operation and as well as maintenance and repairs; preferably these shall be provided both in English and Bengali Languages. - Guidelines for safety for Chlorine usage							
Existing WTPs - Environment and health impacts due to improper disposal of wastewater and sludge, poor chemical handling, waste management and occupational health and safety	- Conduct detailed technical assessment of WTP during the detailed design phase and identify the improvements required. - Conduct raw and treated water quality monitoring (at inlet and outlet) - Undertake necessary improvements at the WTPs either part of the project or through DWS - Ensure that WTPs are improved as required, and ensure that treated water quality meets the drinking water standards, and waste management, material management and	- Detailed design - Raw and treated water quality	Design document	Existing WTP	During detailed design	Environment Specialist and support of PMSC; PIU	Under DWS provision	Work of WTP not started Under DWS provision

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	health and safety practices are improved							
Tree cutting	- Minimize removal of trees by adopting to site condition and with appropriate layout design of OHSR, WTP and location of DTW- IRP-GLSR - Obtain prior permission for tree cutting, if any - Plant and maintain 5 trees for each tree that is removed	Tree felling requirement and afforestation after final design	- Checking of records - Visual inspection of sites	Project locations	During final design, before commencement of work	Environment Specialist and support of PMSC; PIU	As of now, tree felling requirement is not envisaged.	As of now, tree felling requirement is not envisaged.
Loss of natural resources	- Use energy efficient electrical equipment - Provision of use of energy efficient equipment in contract agreements and BOQ	- Contract agreement - Design philosophy	Document checking	Project locations	During final design, before commencement of work	Environment Specialist and support of PMSC; PIU	Considered in the design and contract agreement	Considered in the design and contract agreement
Implementation of the EMP	- The EMP should be included in the Bid Document so that the selected Contractor understands the issues and makes necessary plans to prepare and implement the EMP - Health and safety requirements should be incorporated as part of the contract bid document so that the selected Contractor understands the issues and makes necessary plans to prepare and implement the	- Contract document - Health and safety plan	Document checking	Project locations	During final design, before commencement of work	Environment Specialist and support of PMSC; PIU	Considered in the design and contract agreement	Considered in the design and contract agreement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	health and safety requirements.							
Encroachment/ damage to protected monuments and chance finds	- Create awareness among the workers, supervisors and engineers about the chance finds during excavation work - Stop work immediately to allow further investigation if any finds are suspected - Inform local Archaeological Department if a find is suspected and take any action, they require to ensure its removal or protection in situ; and prepare a chance find protocol	Awareness document	Document checking	Project locations	During final design and before start of physical construction	Environment Specialist and support of PMSC; PIU	Provision in EMP to follow	Provision in EMP to follow
Pre-Construction Stage								
Environmental legal non-compliance may attract legal actions Failure to obtain necessary consents, permits, NOCs etc. can result to design revisions and/or stoppage of works	- All necessary consents, permits, clearance, NOCs, etc. prior to award of civil works must be obtained - All necessary approvals for construction will be obtained by contractor before start of construction - It is acknowledged in writing and report on compliance of all obtained consents, permits, clearance, NOCs, etc. are provided.	List of applicable legislation	Checking of documents	All project locations	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Being Complied and to be continued as per requirement Till report period NOC not obtained from CGWA for withdrawal of ground water. Application done for urban package; cluster IA. Copy of application already available under Appendix	Being Complied and to be continued as per requirement Till report period NOC not obtained from CGWA for withdrawal of ground water. Application done for urban package, cluster IIA. Copy of application already available under Appendix

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	Detailed design drawings and documents are included.						5 Permission copy not yet received. Expected all by December 2024	5 Permission copy not yet received. Expected all by December 2024
Environmental monitoring of baseline conditions of air, noise, water and soil - To establish base line environmental conditions	Environmental monitoring through NABL approved laboratory	Monitoring report	Checking of documents	All project locations	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Conducted base line monitoring on September 2024 as per monitoring plan	Conducted base line monitoring on September 2024 as per monitoring plan
Affected- Telephone lines, electric poles and wires, water lines within proposed project area	- Operators of these utilities have been preliminary identified and included in the detailed design documents to prevent unnecessary disruption of services during construction phase; - DBO Contractor will prepare and implement a contingency plan to include actions to be taken in case of unintentional interruption of services. - Consult and provide prior information to affected households and business (at least 1 week prior) on the intended utility shifting and likely disruptions in services	- List of affected utilities if any and operators - Contingency plan	Observation and document checking	Specific project location	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Being complied as per site condition and requirement	Being complied as per site condition and requirement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Construction work camps, stockpile areas, storage areas, and disposal areas.- Conflicts with local community; disruption to traffic flow and sensitive receptors	(i) Construction camp to be set up near major work site WTP, DTW and OHSRs (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) Extreme care will be taken in selecting sites to avoid direct disposal waste/ excess earth near water body which may inconvenience the community. If required, for excess spoil disposal, (a) sites will be selected from barren, infertile lands. In case agricultural land selected, written consent will be taken from landowners; (b) debris disposal site will be selected 200 m away from surface water bodies; (c) no residential areas be located within 50 m downwind side of the site; and (d) site will be selected 100 m away from sensitive locations like settlements, ponds/lakes or other water bodies.	- List of selected location for OHSRs - Involvement of traffic dept. - Road closure planning	- Site observation - Review of documents - Grievance Register	Specific project location	Before commencement of final design and commencement of construction	Environment Specialist and support of PMSC; PIU	Being Complied No disruption noted. Area selected nearby vacant place No excess spoil generated. Pipe laying work not yet started	Being Complied No disruption noted. Area selected nearby vacant place No excess spoil generated. Pipe laying work not yet started

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution.	- Construction materials are obtained only from government approved quarries with prior approval of cluster-PIUs/ PIU - Cluster-PIUs ensured that quarry sources have all necessary clearances/ permissions in place prior to approval - Contractor submits to PIU on a monthly basis documentation on material obtained from each source (quarry/ borrow pit) - Creation of new borrow areas, quarries etc., to be avoided for the project (work is small); if unavoidable, contractor to obtain all clearances and permissions as required under law, including Environmental Clearance prior to approval by PIU	- List of approved quarry sites and sources of materials - Construction Contractor documentation	- Checking of records - Visual Inspection of sites	Quarries and material source areas	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Procurement of materials like sand, stone etc. not yet started. Design under process. Only sinking of few tube well has been done	Procurement of materials like sand, stone etc. not yet started. Design under process. Only sinking of few tube well has been done
Location impacts of proposed components - project locations close to protected monuments in Udaipur and	- Obtain prior ASI permission for construction if required - Prior to commencement of construction, consult with concerned religious authorities of these	- NOC from ASI authority - Consultation documents - Scheduling of work - Work plan and methodology	- Site observation - Review of documents	Specific project location of Udaipur and Rudrasagar area at Melaghar	Before commencement of final design and commencement of construction	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started at Udaipur and Melaghar. Necessary application of mitigation measures is expected

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
close to Rudrasagar Ramsar Wetland in Melaghar – Impact on sensitive areas (ASI monuments, and Ramsar wetland) due to proposed construction works	temples, nearby people and devotees and explain the work method and duration of proposed works, take their suggestions and comments in scheduling and conducting the works ▪ Prevent dust, noise, accumulated of water, and contaminated surface runoff from the work sites; take necessary measures as needed (these are presented in construction phase impacts-measures) ▪ No construction camps (workers accommodation, material / waste / soil storage) should be established within 500 m of the monuments in Udaipur ▪ No construction camps (workers accommodation, material / waste / soil storage) should be established within 1000 m (1 km) from the boundary of Rudrasagar lake; camps should not be located close to drainage lines/streams that flow into Rudrasagar lake ▪ All project related site staff, construction workers and supervisors, shall be made aware of the	- Environment monitoring data - Mitigation plan						

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	sensitive sites, and prevent any harm or damage or disturbance to trees, vegetation, wildlife, birds etc., - Proper accommodation and facilities shall be provided within the camps, and workers shall not use the lake or surroundings for open defecation, bathing, or fishing / hunting, collecting firewood etc. Contractor should put in place, a proper system to monitor the staff and workers to prevent damage/ disturbance. - Do not use equipment that generate heavy noise, ground vibration, dust etc., (such as pneumatic drills, dozers etc., within 100 m of temples, or within 500 m of Rudrasagar lake - Schedule works during dry season to avoid contaminated runoff from the work sites entering lake; clear the sites of materials, debris, and consolidated the refilled trenches prior to onset of monsoon - Install temporary silt traps or sedimentation							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	basins along the drainage leading to the water bodies; - Place storage areas for fuels and lubricants away from any drainage leading to water bodies; - Store fuel, construction chemicals etc., on an impervious floor, also avoid spillage by careful handling - Dispose any wastes generated by construction activities in designated sites; and - Conduct surface quality inspection according to the environmental management plan (EMP). - Conduct continuous consultations with the local people during the works							
Risk of archaeological chance finds Works near local religious / cultural places may inconvenience local community	Chance finds (i) Create awareness among the workers, supervisors and engineers about the chance finds during excavation work; (ii) Stop work immediately to allow further investigation if any finds are suspected; (iii) Inform local Archaeological Department if a find is suspected and take any action, they require to	- Awareness, training program document - Discussion MOM with religious authority - Safety arrangement at site	- Document checking - Site observation	Specific project location	Before commencement of final design and commencement of construction	Environment Specialist and support of PMSC; PIU	Pipelaying work not yet started. Protocol will be maintained accordingly and barricade-signage will be arranged at protected area	Pipelaying work not yet started. Protocol will be maintained accordingly and barricade-signage will be arranged at protected area

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	ensure its removal or protection in situ; and prepare a chance find protocol Works near religious / cultural places (iv) Consult with concerned religious authorities, nearby people and devotees in pre-construction phase and explain the work method and duration of proposed works, take their suggestions and comments, and incorporate in design the mitigation measures required (v) Adjacent to religious/ social sites, undertake excavation and construction work in such a way that no structural damage is caused to the religious building. (vi) Observe the local rituals and important dates of festivals, weekly/monthly/annual religious occasions in the religious places and do not make any disturbance/hindrances/obstacles during such time to the religious places, (vii) Provide proper signage, barricades etc. to protect public and devotees from dangers of construction works.							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Construction Phase								
Irreversible impact to the environment, workers, and community, Impact due to effect of COVID 19	Project manager and all key workers will have undergone training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OHS) including COVID-19(SOP), core labor laws, applicable environmental laws, etc.	- Induction & Awareness Trainings - Toolbox Talks - Safeguard Trainings	- Review of Training records - Site Inspections	Project Locations	-	Environment Specialist and support of PMSC; PIU	Being Complied; Site Environmental Safety training and awareness including arranged. However, number of trainings depends on arrival of new workers Sample training document is attached as Appendix 12	Being Complied; Site Environmental Safety training and awareness including arranged. However, number of trainings depends on arrival of new workers Sample training document is attached as Appendix 12
Emissions from construction related vehicles, equipment, machinery, resulting to dusts and increase in concentration of vehicle related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons	<u>For all construction works</u> - The soil and stockpiled material are damped down on site by water sprinkling - Tarpaulins are used to cover the loose material (soil, sand, aggregate etc.) when transported by trucks; - A dust screen around the construction sites specifically at WTP, OHSRs site to be provided. Extra protection is required near sensitive receptors like school, Anganwadi, religious places located	- Location of stockpiles - Complaints from sensitive receptors - Monitoring data- PM10, PM2.5 NO2, SO2, CO - Heavy equipment and machinery with air pollution control - Water sprinkling arrangement - Cover materials	- Site inspection - Document checking - Public grievance register	Covering different locations. Air – monitoring: For e.g OHSRs, WTP and pipelaying sites	Continuous process Base line and during construction Base line air quality monitoring has been done on September 2024	Environment Specialist and support of PMSC; PIU	Being Complied; Pre- construction data has been collected results are available with PMSC, PIU Emission of equipment and vehicle tested. PUC certificate obtained for Vehicle. (Sample enclosed in Appendix 2) Relevant regulation under compliance. Other activities	Being Complied; Pre- construction data has been collected results are available with PMSC, PIU Emission of equipment and vehicle tested. PUC certificate obtained for Vehicle. (Sample enclosed in Appendix 2) Relevant regulation under

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	nearby the construction site. - Wheels and undercarriage of haul trucks are cleaned prior to leaving construction site/quarry - Sprinkling water and unloading inside the barricaded area will be made to Control dust generation while unloading the loose material (particularly aggregate, soil) at the site - Water is used to maintain soils in a visible damp or crusted condition for temporary stabilization - Water to be used prior to levelling or any other earth moving activity to keep the soil moist throughout the process - Tarpaulins are used to cover the soil stocked at the sites - Access to be controlled to work area, preventing unnecessary movement of vehicle, public trespassing into work areas; limiting soil disturbance to minimize dust generation - All construction equipment and machineries should be fitted with pollution control devices						like dust suppression, covering of loose materials, dust screen to be arranged with progress of the work. Pipe laying work yet to start.	compliance. Other activities like dust suppression, covering of loose materials, dust screen to be arranged with progress of the work. Pipe laying work yet to start.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	and have a valid pollution under control (PUC) certificate Pipeline works ▪ Barricading the construction area using barricade or use of caution tape ▪ Confine all the material, excavated soil, debris, equipment, machinery (excavators, cranes etc.), to the barricaded/ demarcated area ▪ Limit the stocking of excavated material at the site; remove the excess soil from the site immediately to the designated disposal area ▪ Undertake the work section wise: 100 – 200 m section should be demarcated and barricaded ▪ Conduct work sequentially - excavation, pipe laying, backfilling; conduct pipe testing section-wise (for a minimum length as possible) so that backfilling, stabilization of soil can be done. ▪ Remove the excavated soil of first section to the disposal site; as the work progresses,							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	sequentially, by the time second section is excavated, the first section will be ready for back filling, use the freshly excavated soil for backfilling, this will avoid stocking of material, and minimize the dust. Backfilled trench at any completed section after removal of barricading will be the main source of dust pollution. The traffic, pedestrian movement and wind will generate dust from backfilled section. Road restoration shall be undertaken immediately.							
Contamination of ground water quality due to spillage of oil and lubricants	- Prepare and implement a spills management plan; - Provide impermeable liner on the ground and place layer of mortar or concrete over it in the oil and lubricants storage areas, provide spillage trap in oil and lubricant store, use dip tray and pump to pour oil from oil and lubricant drums; - Dispose any oil contaminated wastes generated by construction activities in scientific manner; and	- Construction methodology - Spillage/spoil management plan - Work schedule - Ground water monitoring report as per requirement	- Document check - Site inspection	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	- Work just started- no contamination of soil and water - Fuel to be stored separately	- Work just started- no contamination of soil and water - Fuel to be stored separately

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	Conduct ground water quality monitoring according to the EMP							
River Intakes (at Udaipur)--- Water quality and ecological impacts	- Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon. - Schedule the construction works during low water level period – late winter months to pre monsoon (November - March); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage	- Construction methodology - Work schedule - Safety arrangement	- Document check - Site inspection	Udaipur intake site	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started for Udaipur intake. All measures will be applied during construction

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	- Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers - Implement work site safety at works in water body							
Surface Water Quality- Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during construction can contaminate nearby surface water quality. Ponding of water in the pits/foundation excavations	- All earthworks to be conducted during the dry season to prevent the problem of soil run-off during monsoon season; - Stockpiling of earth fill especially during the monsoon season will be avoided unless covered by tarpaulins or plastic sheets; - Excess spoils and debris will be re-used in the construction works. Only designated area, if required, will be used for soil disposal - Install temporary silt traps or sedimentation basins - Storage areas for fuels and lubricants will be selected away from any drainage leading to water bodies. - Fuel, construction chemicals etc., will be stored on an impervious	- Areas for stockpiles, storage of fuels and lubricants and waste materials - Number of silt traps installed along drainages (in slope) leading to water bodies - Entry routes of pollutant in nearby Waterbodies	- Site inspection - Public grievance register	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	Except sinking of tube well no activity has been started. Silt trap will be arranged, fuel - lubricants to be purchased, designated site for waste disposal under consideration. All safety aspect to be maintained.	Except sinking of tube well no activity has been started. Silt trap will be arranged, fuel - lubricants to be purchased, designated site for waste disposal under consideration. All safety aspect to be maintained. Particularly during work near Melaghar, all precautionary measures will be taken up

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	floor, also spillage is avoided by careful handling - Construction wastes to be disposed in designated sites; - Temporary drainage channels will be created around the work area to arrest the entry of runoff from upper areas into the work area - The water collected in the pits / excavations will be pumped to a temporary sedimentation pond; dispose of only clarified water then dispose into drainage channels/streams after sedimentation in the temporary ponds - Safety aspects will be considered related to pit collapse due to accumulation of water - During construction of intake river bed earth needs to be removed quickly to control turbidity in the river water - During construction of tube well – waste water generate from construction activity will be channelized to pit and later muck will be collected from the pit for disposal							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	- During development of tube well, waste water will be drained to nearby nalla - Conduct surface water quality inspection according to the EMP. - Implement measures to protect water quality in the wetland for Melaghar MC. Include measures such as installing sediment traps, using biodegradable lubricants, and minimizing the use of chemicals. - Implement sediment and erosion control measures to prevent soil erosion and sedimentation in the wetland. This can include measures such as silt fences, sediment							
Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	- Activities to be planned in consultation with cluster-PIUs so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; - Horns will be not used unless it is necessary to warn other road users or animals of the vehicle's approach;	Day time and night time noise levels.	- Checking of records - Visual inspection of sites	Covering different work locations.	Monitoring continuous basis- pre construction and during construction	Environment Specialist and support of PMSC; PIU	Till report period complied all. Pre construction noise monitoring has been conducted Only tube well sinking continued	Till report period complied all. Pre construction noise monitoring has been conducted Only tube well sinking continued

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	▪ Vehicle silencers, fitting jackhammers with noise-reducing mufflers, and portable street barriers are used in construction equipment to minimize sound impact to surrounding sensitive receptor; ▪ Maximum sound levels to be maintained which not exceeding 80 decibels (dBA) when measured at a distance of 10 m or more from the vehicle/s. ▪ Near school, Anganwadi, religious places and health center work need to be completed in shorter period. Noise generation should be restricted near the above sensitive receptors. Work should be carried out during day time only and non-school hours. ▪ Mitigate the sound from tube well drilling operation Modern mission needs to be used. ▪ Local communities will be consulted in advance of the work to identify and address key issues, and avoid working at sensitive times, such as religious and cultural festivals. ▪ Night time work will							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	be avoided							
Construction Activity Near Rudrasagar Lake at Melaghar town - Disturbance to Local and Migratory birds	- Prepare SEMP before starting any work - No construction camps (workers accommodation, material / waste / soil storage) should be established within 1000 m (1 km) from the boundary of Rudrasagar lake; camps should not be located close to drainage lines/streams that flow into Rudrasagar lake - Movement of workers and staff should be confined to work site, and not be allowed in wetland area which may disturb the sensitive area; ensure via strict supervision no poaching, fishing, cutting / damaging trees/vegetation or wildlife, birds etc., - All project related site staff, construction workers and supervisors, shall be made aware of the sensitive sites, and prevent any harm or damage or disturbance to trees, vegetation, wildlife, birds etc., - Proper accommodation and facilities shall be provided within the camps (at least 1 km away from the wetland),	- Site specific EMP - Construction camp location - Work schedule - Installation of silt trap - Surface water monitoring data - Public consultation documents	- Visual observation - Document checking - Monitoring report review	At Melaghar work area	Pre construction and throughout construction period	Environment Specialist and support of PMSC; PIU	Not applicable	Work not started till report period. Mitigation measures will be followed as per EMP

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	and workers shall not use the lake or surroundings for open defecation, bathing, or fishing / hunting, collecting firewood etc. Contractor should put in place, a proper system to monitor the staff and workers to prevent damage/ disturbance. ▪ Schedule works during dry season to avoid contaminated runoff from the work sites entering lake; clear the sites of materials, debris, and consolidated the refilled trenches prior to onset of monsoon ▪ Implement sediment and erosion control measures to prevent soil erosion and sedimentation in the wetland. Prevent entry of silt-laden / contaminated runoff into wetland or drains leading to wetland from the construction sites or construction camps. Appropriate measures such as silt traps, sedimentation ponds, and filtration systems should be installed to prevent sediment and other pollutants from entering the water supply. Soil stabilization measures should also be taken to							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	prevent soil erosion during construction, Construction near wetland to be planned in dry seasons only. ▪ Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; ▪ Place storage areas for fuels and lubricants away from any drainage leading to water bodies; ▪ Store fuel, construction chemicals etc., on an impervious floor, also avoid spillage by careful handling ▪ Do not use equipment that generate heavy noise, ground vibration, dust etc., (such as pneumatic drills, dozers etc), within 500 m of Rudrasagar lake. Adapt manual excavation as far as possible ▪ Construction sites often generate significant amounts of dust that can impact nearby habitats. Dust suppression measures, such as watering down exposed soil, can help to reduce dust levels. ▪ Dispose any wastes generated by							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	construction activities in designated sites; and - Monitor the project closely throughout construction to ensure that all mitigation measures are being implemented effectively and that any issues are identified and addressed promptly. - Conduct surface quality inspection according to the environmental management plan (EMP). - Conduct continuous consultations with the local people during the works							
Waste and debris management - Impacts due to excess excavated earth, excess construction materials, and solid waste such as removed concrete, wood, packaging materials, empty paint containers, spoils, oils, lubricants, and other similar items.	- Construction Waste Management Plan to be prepared and implemented - As far as possible the debris and excess soil will be utilized in construction purpose, for example for raising the ground level or construction of access roads etc. - Not to store any construction materials and spoil materials nearby the sensitive receptors; - Construction waste will be not disposed near the sensitive receptors like school, Anganwadi and religious places	- Waste Management List of Stockpile Management - Complaints from Sensitive receptors - PMU/ PIU/ PMSC to report in writing that the necessary environmental restoration work has been done	- Checking of records - Visual inspection of sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Construction just started Being Complied Muck from tube well construction sites need to be disposed at approved location	Construction just started Being Complied Muck from tube well construction sites need to be disposed at approved location

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	▪ Muck from construction activity of tube well will be disposed in designated area after receiving of NOC ▪ Stockpiles, lubricants, fuels, and other materials will be located away from steep slopes and water bodies; ▪ For disposal, the site selected will be preferably from barren, infertile lands; site would be located away from residential areas, forests, water bodies and any other sensitive land uses; ▪ Domestic solid wastes will be properly segregated into biodegradable and non-biodegradable for collection and disposal to designated solid waste disposal site; compost pit to be created at workers' camp sites for disposal of biodegradable waste; non-biodegradable / recyclable material will be collected separately and sold in the local recycling material market; ▪ Residual and hazardous wastes such as oils, fuels, and lubricants to be disposed of through approved vendors of							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	Pollution Control Board; - Burning of construction and/or domestic waste are prohibited; - Wastes will be not haphazardly dumped/ thrown within and around the project site and adjacent areas; proper collection bins to be provided, and awareness to be created to use the dust bins. - Site clearance and restoration will be done immediately after the completion of construction work to restore to the original condition; cluster-PIU ensures that site is properly restored prior to issuing of construction completion certificate.							
Disruption of service and damage to existing infrastructure at specified project location	(i) Prepare a list of affected utilities and operators if any; and (ii) Prepare a contingency plan to include actions to be done in case of unintentional interruption of service	- List of affected utilities if any and operators - Contingency plan for utility - Public grievance recorded	Site observation and document checking	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	Work just started for sinking of tube well. Will be complied as Per requirement. Consultation with utility dept. as and when required	Work just started for sinking of tube well. Will be complied as Per requirement. Consultation with utility dept. as and when required
Loss of vegetation and tree cover	(i) Minimize removal of vegetation and disallow cutting of trees;	Tree felling requirement and afforestation plan	- Checking of records - Visual inspection of sites	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	As of now, tree felling requirement is not envisaged	As of now, tree felling requirement is not envisaged

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(ii) If tree-removal will be required, obtain tree-cutting permit and (iii) Plant 5 native trees for every one that is removed.							
Accessibility- Traffic problems and conflicts near project locations and haul road Impact on access to house and road user particularly during laying of pipes	Hauling (material, waste/debris and equipment) activities (i) Transportation routes to be planned so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites (ii) Transport and hauling activities will be scheduled during non-peak hours; (iii) Entry and exit points will be in areas where there is low potential for traffic congestion; (iv) Vehicles to be driven in a considerate manner (v) Affected public will be notified by public information notices, providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. (vi) Separate demarcated access will be temporarily arranged for nearby sensitive receptors like school. Anganwadi,	• Traffic Management Plan • Public grievance • Number of signages placed at subproject location	Site visit and document review	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	Till report period no as such transportation of materials. Pipe laying work not yet started. All measures will be applied	Till report period no as such transportation of materials. Pipe laying work not yet started. All measures will be applied

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	religious places & health center located adjacent to the proposed construction areas. Pipeline works (i) Confine work areas along the roads to the minimum possible extent; all the activities, including material and waste/surplus soil stocking should be confined to this area. Proper barricading should be provided; avoid material/surplus soil stocking in congested areas – immediately removed from site/ or brought to the as and when required (ii) Leave spaces for access between mounds of soil to maintain access to the houses / properties (iii) Provide pedestrian access in all the locations; provide wooden/metal planks over the open trenches at each house to maintain the access. (iv) Inform the affected local population 1-week in advance about the work schedule (v) Avoid work during day time when community facilities such as educational institutes, healthcare centres, religious places,							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	markets will be operating. Also provide alternative access. (vi) Plan and execute the work in such a way that the period of disturbance/ loss of access will be minimum. (vii) Keep the site free from all unnecessary obstructions; Coordinate with Traffic Police for temporary road diversions, where necessary, and for provision of traffic aids if transportation activities cannot be avoided during peak hours							
Socio economic – Impact on income--- Impede the access of residents and customers to nearby shops	(i) Prepare and implement spoils management plan. Contractor to Implement RP and to follow mitigation measures prescribed such as- (ii) Leave spaces for access between mounds of soil; (iii) Provide walkways and metal sheets where required for people; (iv) Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools;	• Spoil management plan • Availability of signage, barricade • Consultation with business persons/ shop owners	• Checking of records/ reports • Visual inspection of sites	All project areas, particularly at congested commercial areas	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	Till report period no pipe laying activity has been started All measures will be applied as per requirement and following EMP	Till report period no pipe laying activity has been started All measures will be applied as per requirement and following EMP

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(v) Consult businesses and institutions regarding operating hours and factoring this in work schedules; and (vi) Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.							
Socio-Economic - Employment Generation of temporary employment and increase in local revenue	(i) Employ local labor force as far as possible; and (ii) Comply with labor laws	Employment record	Checking of records	Project locations	-	Environment Specialist and support of PMSC; PIU	Work just started. Direct and indirect employment for local population - noted	Work just started. Direct and indirect employment for local population - noted
Occupational hazards which can arise during work, safe from COVID 19	(i) All national, state and local core labor laws to be complied with (Appendix 5). Labour license and Workmen Compensation policy to be obtained by contractor before start of construction (ii) Develop and implement site-specific occupational health and safety (OHS) Plan and Supplementary H & S plan for COVID 19 to be developed and implemented (Appendix 11 shows COVID 19 SOP guideline) which included measures such as: (a) excluding public from the site;	- Site-specific Health and Safety (H&S) Plan - Equipped first-aid stations; - Medical insurance coverage for workers - Number of accidents - Supplies of potable drinking water; - Record of H&S orientation trainings - Personal protective equipment - Sign boards for hazardous areas	- Checking of records - Visual inspection of sites	Project locations	Throughout the project period	Environment Specialist and support of PMSC; PIU	Site-specific Health and Safety (H&S) Plan prepared and under implementation. Copy of the approved Health and Safety plan available with PMSC. PIU H & S training including COVID 19 awareness done on regular basis. Sample attached in Appendix 12. Drinking water	Site-specific Health and Safety (H&S) Plan prepared and under implementation. Copy of the approved Health and Safety plan available with PMSC. PIU H & S training including COVID 19 awareness done on regular basis. Sample attached in Appendix 12. Drinking water

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(b) maintaining social distancing for protection from COVID 19 infection; (c) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose mask, face mask and ear plugs; (d) OHS Training and COVID 19 awareness H & S training for all site personnel; (e) complete COVID 19 vaccinations for workers, (f) documented procedures to be followed for all site activities including follow of SOP for COVID 19 to be developed for the project and H & S plan; and (g) documentation of work-related accidents; (iii) Availability of First aid box/ facility throughout the project period; (iv) Medical insurance and tie-up with local hospitals to be provided for workers; (v) All installations will be secured from unauthorized intrusion and accident risks; (vi) Potable drinking water to be provided for the workers; (vii) Clean eating areas to be provided where workers are not exposed to	such as energized electrical devices and lines, service rooms					and first aid box available at site. Use of PPEs by workers noted. Use of shoes / gumboot is necessary Tie up letter with nearby health center in case of emergency - obtained (Appendix 8). Health check-up was conducted for workers (Appendix 9) Medical Insurance arranged for the labourer (attached in Appendix 4. Accident/ First aid register is maintained at each site. There is no first aid cases reported during report period. Poster on GRM-GRC and IEE's Executive Summary in local to be	and first aid box available at site. Use of PPEs by workers noted. Use of shoes / gumboot is necessary Tie up letter with nearby health center in case of emergency - obtained (Appendix 8). Health check-up was conducted for workers (Appendix 9) Medical Insurance arranged for the labourer (attached in Appendix 4. Accident/ First aid register is maintained at each site. There is no first aid cases reported during report period. Poster on GRM-GRC and IEE's Executive Summary in local to be

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	hazardous or noxious substances; (viii) To provide health and safety orientation training including COVID 19 risk and mitigation 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; (ix) Visibility of workers to be ensured using high visibility vests when working in or walking through heavy equipment operating areas; (x) Moving equipment will be outfitted with audible back-up alarms; (xi) Sign boards will be provided for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage is in accordance with international standards and are well known to, and easily understood by workers, visitors, and the general public as appropriate; (xii) Workers will be disallowed exposure to noise level greater than 85 dB (A) for a duration of more than 8						placed at major work sites - OHSRs	placed at major work sites - WTP, OHSRs

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	hours per day without hearing protection. The use of hearing protection shall be enforced actively. (xiii) Standard Operating Procedure (SOP) for the project and Supplementary H & S plan for COVID 19 will be prepared which cover, (xiv) General instruction to follow to prevent the spread of COVID-19 in construction workplace (xv) Worksite prevention practice at work site, office, during meeting, travelling, etc. (xvi) Precaution to be taken at workmen habitat/ camp (xvii) Use of PPEs: face mask – hand gloves, maintaining social distancing, disinfection, requirement of awareness covered under the H & S plan.							
Community health & safety - Traffic accidents and vehicle collision with pedestrians during material and waste transportation and pipe laying work	- Movements of construction vehicles are restricted to defined access roads and demarcated working areas (unless in the event of an emergency) - Strict speed limit (20-30 kmph) is enforced for plying on unpaved roads, construction tracks	Public grievance	Review documents of	Project Locations	Throughout the construction period	Environment Specialist and support of PMSC; PIU	To be Complied No pedestrian accident has been recorded till date. Pipe line laying work not yet started. Barricades and caution tapes in	To be Complied No pedestrian accident has been recorded till date. Pipe line laying work not yet started. Barricades and caution tapes in

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	- Night-time haulage is by exception only, as approved by the cluster-PIU to minimize driving risk and disturbance to communities - Safe practices are adopted for micro tunnelling- (in case of major road crossing) - Temporary traffic control (e.g. flagmen) and signs will be provided where necessary to improve safety and provide directions - Restrict speed of the vehicle and equipment near sensitive receptors - Separate barricading needs to be provided near adjacent sensitive receptors like school, Anganwadi, health center and religious places; - All drivers should pass through safety and training sessions - Public access will be restricted through the use of barricading and security personnel at pipe laying work locations - Warning signs, blinkers will be attached to the barricading to caution the public about the hazards associated with the works, - The period of time when the pipeline trench is left						work areas, in particular along the pipelines needs to be arranged. Safety signage board placed near tube well construction sites No trench will be kept open after pipe laying. Caution tape will be placed as per requirement	work areas, in particular along the pipelines needs to be arranged. Safety signage board placed near tube well construction sites No trench will be kept open after pipe laying. Caution tape will be placed as per requirement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	open will be minimized through careful planning - Control dust pollution – dust control measures will be implemented as suggested under air quality section - Vehicles will be regularly maintained and manufacturer- approved parts will be used to minimize potentially serious accidents caused by equipment malfunction or premature failure. - Road signs and flag persons will be there to warn of on-going trenching activities. - Road signs and flag persons will be provided to warn of on-going trenching activities.							
Safety of sensitive groups (children, elders etc.) and others pedestrians in narrow streets- Trench excavation in narrow streets will pose high risk to children and elders in the locality	- Provide prior information to the local people about the nature and duration of work - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and to	- Awareness program document - Work plan - Implementation of safety measures	- Visual inspection - Review of documents	Work locations	Throughout the construction period	Environment Specialist and support of PMSC; PIU	Till report period pipe laying work not started. Will be complied as per work activity	Till report period pipe laying work not started. Will be complied as per work activity

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	prevent unnecessary entry and to avoid accidental fall into open trenches, Implement additional safety features for working near the schools; isolate work site from the school access road; provide proper barricading to prevent entry of children / public into work site; create awareness among school children and staff on construction safety							
Work Camps and worksites – Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants. Unsanitary and poor living conditions for workers	(i) Camp site will be established near major construction i.e WWTP, DTW, OHSRs site (ii) No worker's camp is allowed near (within 1 km) Wetland area (Rudrasagar lake) at Melaghar (iii) No Tree will be cut for settling of camp. (iv) Camp site will not be located near (100 m) water bodies, flood plains flood prone/low lying areas, or any ecologically, socially, archeologically sensitive areas (v) The workers living areas and material storage areas will be separated clearly (vi) Proper temporary accommodation with	- Public grievance - Accommodation - Water and sanitation facilities for employees - Housekeeping – regular disposal of solid waste	Site inspection and review of documents	Constructio n camps	Preconstruction and construction phases	Environment Specialist and support of PMSC; PIU	Complied at tube well site. Tent has been arranged for short period 10 days tube well sinking works LPG, drinking water, toilet and separate kitchen area provided. For bigger work site like OHSR, proper camp will be constructed	Complied at tube well site. Tent has been arranged for short period 10 days tube well sinking works LPG, drinking water, toilet and separate kitchen area provided. For bigger work site like WTP, OHSR, proper camp will be constructed

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	proper materials, adequate lighting and ventilation to be provided, appropriate facilities will be provided for winters and summers; conditions of livability at work camps should be ensured and maintained at the highest standards possible at all times; (vii) Cluster-PIU should be consulted before locating project offices, sheds, and construction plants; (viii) Removal of vegetation is minimized and cutting of trees disallowed without permission from concerned authorities (ix) Camp should be protected from COVID 19 health risk. All Health and safety procedure to be followed for operation of camp (H & S plan for COVID 19 will be used as ref. document) during stay, cooking, eating, use of toilet- common space etc. (x) Self- hygiene, regular disinfection of entire camp and toilet, maintaining of social distancing to be							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	continued for protection from COVID 19 infection (xi) Unknown person will be not allowed within the camp (xii) Camps will be provided with proper drainage, without any water accumulation (xiii) Maintenance of hygienic environment at staying area, cooking area and toilet (xiv) Drinking water, water for other uses, and sanitation facilities for employees to be provided (xv) Employees will be prohibited from cutting of trees for firewood; contractor provided proper facilities including cooking fuel (oil or gas; fire wood not allowed) (xvi) Employees will be trained in the storage and handling of materials which can potentially cause soil contamination (xvii) Used oil and lubricants will be recovered and removed from the site (xviii) Solid waste to be managed according to the following preference hierarchy: reuse,							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	recycling, and disposal to designated areas; provide a compost pit is provided for biodegradable waste, and non-biodegradable / recyclable waste are collected and sold in local market (xix) All wreckage, rubbish, or temporary structures which no longer required should be removed (xx) At the completion of work, camp area will be cleaned and restored to pre-project conditions, and report will be submitted to Cluster-PIU; they will review and approve camp clearance and closure of work site							
Occupational hazards which can arise during work at night in extreme and unavoidable cases	(i) Contractors should have hand held noise level meter for measurement of noise during night hours (ii) Contractors should have hand held lux meter for the measurement of illumination during night hours (iii) Preferably electrical connections are available for running equipment's otherwise sound proof/super silent Diesel Generator set should be available	• Work plan and facility during night work if any • Measurement of pollution level • Experience of workers during night work	Site inspection and review of documents	At specific project site	During execution of night work as per work plan	Environment Specialist and support of PMSC; PIU	To be comply as per requirement	To be comply as per requirement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(iv) Sound level should not increase as per EMP (v) Illumination should be adequate as required according to nature of works (vi) As far as possible ready-mix concrete from batching plant to be used, otherwise the concrete should be prepared away from residential areas and brought to the site (vii) All the noise activity like hammering, cutting, crushing, running of heavy equipment's should be done in day time and avoided in night time (viii) Workers engaged in night works should have adequate rest/sleep in day time before start of night works (ix) Worker engaged for night works should have previous experience of night works and should be physically fit for such works including clear vision in night (x) All the necessary provisions of traffic aids such as traffic signals, road signage, barricades, cautions boards, traffic diversion boards etc. should be available with fluorescent /retro-reflective arrangements							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(xi) Workers should be trained before start of night works about risks and hazards of night works and their mitigation measures and should be provided all the protective aids (PPEs) including fluorescent/retro-reflective vests (xii) Horns should not be permitted by equipment and vehicles (xiii) Workers should not shout and create noise (xiv) First aid and emergency vehicles should be available at site (xv) Emergency preparedness plan should be operative during night works (xvi) Old persons and pregnant women and women having small kids should not work in night time (xvii) All the vehicles and equipment being used at night works should have adequate type of silencers/enclosures/mufflers to reduce noise (xviii) All the vehicles should be checked for working head lamps, tail lamps, inner lights etc. before start of night work.							
Social and Cultural Resources ---	Chance finds	Awareness documents	Visual observation	At specific project site	During execution of the project	Environment Specialist and support of	No chance finds recorded till report period	No chance finds recorded till report period

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
Risk of archaeological chance finds Works near local religious / cultural places may inconvenience local community	(i) Create awareness among the workers, supervisors and engineers about the chance finds during excavation work; (ii) Stop work immediately to allow further investigation if any finds are suspected; (iii) Inform local Archaeological Department if a find is suspected and take any action, they require to ensure its removal or protection in situ; and prepare a chance find protocol Works near religious / cultural places (iv) During the detailed design, PIU to consult ASI (in Udaipur / Agartala) with exact distance and depth of waterlines works within 300 m of the monuments, and include any feedback or measures as suggested by ASI in into design/construction; obtain prior ASI permission for construction if required (v) Consult with concerned religious authorities, nearby people and devotees in pre-construction phase and explain the work method and	• Discussion with Archaeological dept. • Consultation documents with sensitive receptors • Safety arrangement	• Document checking			PMSC; PIU		Work not yet started at Udaipur

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	duration of proposed works, take their suggestions and comments, and incorporate in design the mitigation measures required (vi) Adjacent to religious/ social sites, undertake excavation and construction work in such a way that no structural damage is caused to the religious building. (vii) Observe the local rituals and important dates of festivals, weekly/monthly/annual religious occasions in the religious places and do not make any disturbance/hindrance/obstacles during such time to the religious places, (viii) Provide proper signage, barricades etc. to protect public and devotees from dangers of construction works. (ix) Ensure proper traffic management planning to minimize the disruption to the normal traffic flow in the area and ensure the safety of the people. (x) Clear the work site of unnecessary material, equipment and debris / surplus soil; do not stock material / soil at the sites							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted of	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	(xi) Conduct continuous consultations with the local people during the works (xii) Implement additional safety features for working near the schools; isolate work site from the school access road; provide proper barricading to prevent entry of children / public into work site; create awareness among school children and staff on construction safety							
Disruption of utilities and water logging in trenches	(i) As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it (ii) if open trenches are not avoidable during monsoon, keep ready all the mitigations measure to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. .	- Work plan – trenching work - Arrangement of mitigation measures at site	- Visual observation - Document checking	At specific project site	During execution of the project	Environment Specialist and support of PMSC; PIU	To be complied Pipelaying work not started	To be complied Pipelaying work not started
Chance finds- There are no protected properties in the subproject sites. However, in case of chance finds, contractors will be required to	(i) Consult local Archaeological or museum Department to obtain an expert assessment of the archaeological potential of the site (ii) In case of chance finds, works must be stopped immediately until such time	- Awareness documents - Discussion with Archaeological dept. and expert assessment report - Training for the workers for maintaining	- Discussion document checking - Site assessment	At specific project site	During pre-construction and implementation of the project	Environment Specialist and support of PMSC; PIU	To be comply, such issue does not arise, protocol to be followed	To be comply, such issue does not arise, protocol to be followed

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring of	Location of Monitoring	Date Monitoring Conducted	Name of Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
follow a protocol as defined in the mitigation measures.	chance finds are cleared by experts	chance find protocol						
Unsatisfactory compliance to EMP	(i) Appointment of Environment, Health, and Safety (EHS) Supervisor to ensure EMP implementation Timely submission of monitoring reports including pictures	Appointment letter Monitoring records	Review of records	-	-	Environment Specialist and support of PMSC; PIU	Safety person appointed from contractor end. Monitoring just started	Safety person appointed from contractor end. Monitoring just started
Post construction - Damage due to debris, spoils, excess construction materials	(i) Remove all spoils wreckage, rubbish, or temporary structures (such as buildings, shelters, and latrines) after completion of work; (ii) All excavated roads shall be reinstated to original condition. (iii) All disrupted utilities will be restored (iv) All affected structures will be rehabilitated/ compensated (v) The area that previously housed the construction camp is to be checked for spills of substances such as oil, paint, etc. and these shall be cleaned up. (vi) The contractor must arrange the cancellation of all temporary services. (vii) Request Cluster-PIU to report in writing that worksites and camps have been vacated and restored to	- Stockpile Management - Spoil Management - Restoration of sites	Review of documents and site inspections	Project Locations	Construction phase and also after construction	Environment Specialist and support of PMSC; PIU	To be complied as per EMP Work just started for tube well	To be complied as per EMP Work just started for tube well

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method Monitoring	Location of Monitoring	Date Monitoring Conducted	Name Person Who Conducted the Monitoring	Package TUDA/ WS-01/P-01	Package TUDA/ WS-02/P-02
	pre-project conditions before acceptance of work.							

Table 10: Summary of Environmental Monitoring Activities for the Package Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Location & Design Stage							
Location impacts of proposed components--- Nearby community may be affected due to increased pollution during construction Increased carrying capacity of site Increased water requirement and disposal for waste Impact due to proximity to River Gomati	- Site location for Chabimura is away from nearby habitation - Amarpur would benefit from access to improved space from the waterfront development of Amarsagar and Fatiksagar - Follow relevant national planning and design guidelines for technical design of the visitor facilities, parking, amenities, picnic areas, log huts, shops, restaurants, landscaping etc., - Follow relevant standards and guidelines such as CPHEEO for designing of physical infrastructure facilities such as water supply, sewerage, storm drainage, solid waste management, power requirements etc. - focus on providing a robust system which is easy to operate, sustainable, efficient, and economically viable. - Design measures for treatment of waste water, storm water drainage, solid waste management and construction waste management are incorporated in design	- Checking of selected sites and design - Checking of mitigation measures of EMP	- Site observation - Desk review of documents	All project locations	During design	Environment Specialist and support of PMSC; PIU	Considered during detailed design. CPHEEO guideline is followed
Change of landuse impacts the potential	Locate all sub-projects already existing footprint areas and	Design parameters	Document checking	Project sites	During design	Environment Specialist and support	Complied completely

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
pollution	maintain same landuse to the maximum extent					of PMSC; PIU	
Extraction of construction material -- Extraction of borrow material and boulders impact the geology and topography	Material procurement will be from sources approved by the GoT or from approved third party	- List of approved quarry, borrow pit sites and sources of materials - Construction Contractor documentation	- Checking of records - Visual Inspection of sites	Quarries and material source areas	During design and implementation	Environment Specialist and support of PMSC; PIU	Material purchased from license source. Royalty receipt sample copy attached as Appendix 6
Discharge of silt and storm water into river Gomati / lakes in Amarsagar and Fatiksagar - Impact on water quality due to silt laden runoff entering the water bodies	Incorporates in Design - Silt fencing to be used for prevention of silt laden runoff entering water bodies prevented during construction - Storm water drains to avoid contaminated runoff directly entering water bodies	- Design document - Site facility	- Site observation - Desk review of document	All project locations	During design	Environment Specialist and support of PMSC; PIU	Silt fencing in use for protection of river water contamination Work not started near Amarsagar and Fatiksagar
Socio-Economic Aspects --- Impacts that arise due to the inappropriate existing facilities and infrastructure	Following Measures are provided in design to facilitate increased tourist/visitors number - Site protection measures - gabion mattress at Chabimura; - Provision of site accessibility such as roads and paved footpaths; - Introduction of hard and soft landscape elements; - Provision of tourist amenities; - Provision of utilities such as lighting, water supply, waste	- Design facility - Site protection measures	- Site observation - Document checking	Project locations	During design	Environment Specialist and support of PMSC; PIU	Provisions duly considered in the design

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	water and solid waste management, etc.						
Chlorine handling and application risk – health and safety risk to workers and general public	Necessary safety measures will be provided if chlorine gas is used; these may include: chlorine neutralization pit; proper ventilation, lighting, entry and exit facilities, personal protection and safety equipment and training to the staff	- Project emergency management plan - Project safety and PPE use plan - Training plan	Document review	Chabimura work site - WTP	During detail design, before commencement of work	Environment Specialist and support of PMSC; PIU	Considered in the design as per treatment requirement
Implementation of EMP and Health and Safety requirements into Contractor Bid Document	The EMP and Health and safety requirements should be incorporated as part of the contract bid document	- Contract document - Health and safety plan	Document checking	Project locations	During final design, before commencement of work	Environment Specialist and support of PMSC; PIU	Considered in the design and contract agreement
Procurement of battery-operated boats and golf carts	- All equipment shall be confirmed to applicable standards, including pollution control, safety - Manufacture shall provide safety equipment, training, and emergency response plans should be in place to ensure the safety of the crew and passengers - Manufacture shall provide assistance in disposal/ recycling of all used components including batteries at the end of their useful life as per latest E waste management rules, Hazardous waste management rules and battery waste management rules of government of India	Design components	Document checking	Project locations- considered under separate package	During final design	Environment Specialist and support of PMSC; PIU and PMU	To be considered under different packages
Pre-construction stage							
Permits, Consents,	Obtain all necessary groundwater withdrawal permission,	List of applicable legislation and	Checking of documents	All project locations	Before	Environment Specialist	Being Complied and to be continued as per

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Clearances and NOCs- Environmental legal non-compliance may attract legal actions Failure to obtain necessary consents, permits, NOCs etc. can result to design revisions and/or stoppage of works	TSPCB consents, permits, clearance, NOCs, etc. prior to start of civil works. - Provide report on compliances of all obtained consents, permits, clearances etc. - Update IEE and EMP prior to starting of works to reflect any changes in project design during design verification and detailed field survey, and submit to ADB for clearance and disclosure - Prepare SEMP based on the updated EMP, and approved by PIU prior to commencement of works - Include in detailed design drawings and documents, all the conditions and provisions stipulated in permits, consents issued by regulatory agencies. - Contractor to conduct pre-construction (baseline) environmental monitoring as indicated in EMP budget tables. The monitoring results shall be referred as baseline quality for key environmental parameters of air, water and noise) - Select and Get NOC for construction camp location from ULB.	present status			commencement of construction	and support of PMSC; PIU	requirement All NOCs applicable – collected except withdrawal of surface water for construction. Process continued to get NOC. Site specific EMP developed. Base line monitoring has been conducted
Construction work camps, stockpile areas, storage areas, and disposal areas.	- Layout plans, areas for construction zone (camp sites, stockpiling, storage and surroundings). - The construction camp and stockpile, storage of fuel and	Selected location layout plan nearby the work site	- Site observation - Review of documents	Specific project location	Before commencement	Environment Specialist and support of PMSC; PIU	Being Complied No disruption noted. Area selected nearby vacant place with all facilities No excess spoil

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Conflicts with local community; disruption to traffic flow and sensitive receptors	lubricants will be avoided nearby any environmentally sensitive areas, forest area and residential areas. These areas will be finalized in consultation with PIU/supervision consultant. - Establish construction camp away from habitation with proper ventilation system, water facility, provision of beds, septic tank or mobile toilets fitted with anaerobic treatment facility. - Measures shall be taken to prevent mosquito breeding at site. Ensure spraying of bleaching powder or phenyl at regular intervals. - Provision of LPG at construction camp for cooking. Usage of firewood to be prohibited strictly. - Domestic solid waste at construction camp shall be segregated into biodegradable and non-biodegradable waste. - Ensure hygiene of the construction camp as well as the kitchen. - Ensure provision of permeable drains and gutters around the construction camp site. - Guidelines for setting up of construction camps and facilities to be provided are reviewed .	Checking of camp set up guideline	Grievance Register		of final design and commencement of construction		generated.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Labour Requirements Conflict with local labour	The contractor preferably will use unskilled labours from local communities to give maximum benefit to the local community.	Labour engagement – category and origin	Checking of appointment letters	Covering all work sites	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Local labours are engaged
Borrow area / Material procurement Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution	- Use material sources permitted by government - Verify suitability of all material sources and obtain approval of PIU; - Ensure that the loading and unloading of the materials and the transportation of the materials from source to construction site does not cause impact on health and safety of the workers and the community; and - Submit to PIU on a monthly basis documentation of sources of materials. If contractor is purchasing ready mix concrete, asphalt/macadam and aggregates from third party, contractor will assure that all the parties/ suppliers are having CTE/CTO from TSPCB and will collect the copy of these certificates and submit to PIU/consultants	- List of approved Quarry and borrow pit sites and sources of materials - Construction contractor documentation	- Checking of records - Visual Inspection of sites	Quarries and material source areas	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Procurement of materials just started. All materials are sourced from licensed vendor
Construction water Water extraction for construction activities and labour camps can disrupt usage by local community	- The Contractor will use ground / surface water as a source of water for the construction with prior permission from CGWB/ Department of water resource . - To avoid disturbance to other water users, the Contractor will use onle permissible quantity of water .	- Design document - Permission and conditions of NOC	Document checking	Project area, camp	Before commencement of work and during construction	Environment Specialist and support of PMSC, PIU	Applied to Dept. of water resource for extraction of river water for construction purpose Expected to receive NOC by December 2024

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	- The Contractor will provide a list of locations & type of sources from where water for construction will be obtained. - The Contractor will need to comply with the requirements of the State Ground Water Department for the extraction & seek their approval for doing so & submit copies of the permission to the PIU/PMU.						
Monitoring of Environmental baseline parameters prior to start of construction activities Establish base line environmental conditions	- Photograph and videograph all pre construction site conditions - Conduct environmental monitoring as per approved monitoring plan - Include photos and GPS coordinates.	- Environment monitoring report - Photos and GPS coordinate checking	Document checking	For entire project areas	Pre-construction stage	Environment Specialist and support of PMSC; PIU	Base line – air, water and noise monitoring has been done
Public disclosure leads to smooth progress of work and timely redressal of any grievances quickly	- Continue information dissemination, consultations and involvement/participation of stakeholders during project implementation. - Capacity building training on environmental and social issues related to the project	- Awareness and public disclosure documents - Training documents - Grievance redressal	Document checking	Project area	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	At present work just started and continued at fixed location. To be done as per type of work and project location
Impact on utilities Electric poles and wires, water lines within proposed project area	- Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; - Conduct detailed site surveys with the construction drawings and discuss with the	- List of affected utilities if any and operators - Contingency plan	Observation and document checking	Specific project location	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Being complied as per site condition and requirement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	respective agencies during the construction phase, before ground clearance; Require construction contractors to 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.						
Preparation of H&S Plan for Pandemic like COVID-19 With the existing EHS guidelines contracture has to prepare a site specific EHS plan including COVID - 19	- The Contractor to prepare and shall abide by the most stringent procedure available for EHS plan including COVID-19 guidelines . - Consistently practice social distancing. - Cover coughs and sneezes. - Maintain hand hygiene. - Clean surfaces frequently.	Prepared health and safety plan	Checking of documents	Covering all work sites	Before commencement of construction	Environment Specialist and support of PMSC; PIU	EHS plan prepared and approved
Construction stage							
Environmental Management Plan (EMP) Implementation Training along with COVID 19 safety Irreversible impact to the environment, workers, and community, Impact due to	Project manager and all key workers will have undergone training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OHS) including COVID-19(SOP), core labor laws, applicable environmental laws, etc.	- Induction & Awareness Trainings - Toolbox Talks - Safeguard Trainings	- Review of Training records - Site Inspections	Project Locations	-	Environment Specialist and support of PMSC; PIU	Being Complied; Site Environmental Safety training and awareness arranged. However, number of trainings depends on arrival of new workers Sample training document is attached as Appendix12

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
effect of COVID 19							
Construction works close to River Gomati, Amarsagar and Fatiksagar Water Quality impact due to contamination from debris, open defecation, oil & grease	- The campsites and storage areas should be established at a minimum distance of 75 m from the river in the areas that would not be affected by flooding and clear of any natural or storm water courses. - No debris should be thrown or collected within 75 m from the edge of the river. - Vehicle parking areas, warehouses and workshop locations must have impervious flooring to prevent seepage of any solvents, paints, leaked oil & grease into the ground. The area should be covered with a roof to prevent the entry of rainwater. - Strictly prohibit open defecation by workers.	Camp site, storage area, debris disposal area checking	Checking of documents	Covering all work sites	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Construction work only started near Gomati River. All precautionary measures taken up for protection of water bodies Camp site has been selected more than 75 m from the river, no debris is disposed near the river. Vehicle parking away from the river Flood technical status report is attached in Appendix 17
Siltation of water bodies & degradation of water quality	- Schedule construction activities during non-monsoon season to the maximum extent possible. - Ensure not to excavate beds of any waterbody for borrowing of earth. - Ensure drainages within the construction zones are kept free of obstructions. - If required silt fencing needs to be provided adjacent to waterbodies and around the stockpiles at the construction site close to water bodies. - Ensure construction materials containing fine particles	- Areas for stockpiles, storage of fuels and lubricants and waste materials - Number of silt traps installed along drainages (in slope) leading to water bodies - Entry routes of pollutant in nearby Waterbodies	- Site inspection - Public grievance register	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	Through application of mitigation measures entry of silt in the water body stopped. Open defecation near site is not allowed

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	are stored in a suitable enclosure to avoid their drainage to the nearby water body. - Dispose any residuals at identified disposal site (approved/identified by local governing bodies). - Inspect all vehicles daily for fluid leaks, before leaving the vehicle staging area, and repair any leaks before the vehicle resume operations. - Strictly prohibit open defecation by workers in nearby areas. - Ensure mobile toilets at the construction work / camp sites to avoid open defecation.						
Erosion of River banks due to meandering path, from construction activity and from runoff	- Considering the highest flood level of approximately 31 m at Chabimura, some safeguard measures in terms of river edge protection have been taken up, such as laying of 470 m long Gabion Mattress along the river Gomati - Further some additional measures, such as addition of 4 new bridges to connect the roads and pathways to retain the site features and terrain, addition of multiple ramps to provide universally accessible spaces, addition of toe walls and retaining walls have been also proposed for river edge protection as well as Amarsagar and Fatiksagar near water outlets.	- Additional measures in design documents - Erosion protection plan	Site inspection	At project site- specifically near river	Throughout the project period	Environment Specialist and support of PMSC; PIU	Work just started. Protection works not yet started. Additional protection measures have been considered in the design
Site preparation for construction	The contractor will be mandated to complete the pre-	Slope stabilization design	Site inspection	At project site-	Throughout the project	Environment Specialist	Work just started. Protection works not

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
of gabion walls at Chabimura causes soil erosion.	construction works and subsequent construction of slope protection works in the dry season - All precautionary measures such as silt fencing and temporary erosion control works such as sandbags for erosion protection will be mandated - By stabilising the slope of the river, for which gabions that allows growth of natural vegetation within the other voids is considered in the design. - There would be minor impacts from the installation activity, like temporary siltation from the trimmed slopes for installation. Increase in worker's activity along the river edge is also likely to induce generic construction impacts. The impacts, though not anticipated to be severe, measures shall be devised to address them and reduce severity and magnitude throughout the construction period. The slopes once stabilised are not anticipated to generate any impacts on the river and its ecology in the operation of the project.	List of precautionary measures		specifically near river	period – pre construction and construction stage	and support of PMSC; PIU	yet started. All provisions have been taken care in the design.
Flood protection Inundation from high floods, erosion due to high velocity of water and safety of residents / tourists during floods	- Ensure provision of permeable drains and gutters around the construction site to divert rainwater to the nearby waterbody. - Maintenance of green areas along river bank, unless required to be uprooted for any construction activity	- Design mechanism - Green area maintainance	- Site inspection - Check ing of design parameters	Project area	Throughout the project period – pre construction and construction stage	Environment Specialist and support of PMSC; PIU	Through recent flood in August, total project area and access road is affected. Flood technical status report is attached in Appendix 17

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	Provision of a ready civil defence mechanism in case of any emergency.						
Storage of materials at campsites / stockpile areas- Air Pollution	- Conduct regular water spraying on stockpiles. - Avoid stockpiling of excavated and construction material unless covered by tarpaulins or plastic sheets to avoid dispersion of loose dry construction materials. - Conduct regular site inspections in the construction zones to ensure adequate measures have been taken to suppress emission of excessive dust during construction period.	- Location of stockpiles - Monitoring data- PM10, PM2.5 NO2, SO2, CO - Heavy equipment and machinery with air pollution control - Water sprinkling arrangement - Cover materials - Arrangement of safety measures	- Site inspection - Document checking	Covering different project locations. Air – monitoring: At selected sites	Continuous process Base line and during construction Base line air quality monitoring has been done on April 2024	Environment Specialist and support of PMSC; PIU	Complied as per SEMP
Indoor air pollution and safety of workers	- Comply with safety measures during painting works at the interpretation centre. - Mixing and cleaning operation emits VOCs, hence should be carried out in an enclosed area. - Use of non-hazardous biocide containing paints rather mercury or lead containing paints should be encouraged.	Safety measures applicable for the project	Site inspection	Camp and office sites	Continuous throughout project period	Environment Specialist and support of PMSC; PIU	Being Complied as per SEMP
Air pollution from construction machinery, equipment and vehicles – Emissions from construction	- Construction materials should be transferred through tarpaulin covered vehicles during transportation and delivery. - All vehicles used by the contractor should have copies of valid Pollution under Control (PUC)	- Location of stockpiles - Complaints from sensitive receptors	Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Being complied as per requirement Equipment and vehicle have PUC certificate (sample attached in Appendix 2) PPEs are used

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
related vehicles, equipment, machinery, resulting to dusts and increase in concentration of vehicle related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons	certificates as on date as per the requirement of the State Transport Department for the entire duration of the contract. ▪ Sprinkling water and unloading inside the barricaded area will be made to Control dust generation while unloading the loose material (particularly aggregate, soil) at the site ▪ Water is used to maintain soils in a visible damp or crusted condition for temporary stabilization ▪ Water to be used prior to leveling or any other earth moving activity to keep the soil moist throughout the process	▪ Monitoring data- PM10, PM2.5 NO2, SO2, CO ▪ Heavy equipment and machinery with air pollution control ▪ Water sprinkling arrangement ▪ Cover materials					completely Air quality monitoring has been done
Fugitive emissions from stockpiles	▪ Covered stockpiling and storage areas (chemicals, paints, electric equipment etc.) should be ensured. ▪ Construction of temporary enclosures to entrap dust. ▪ Water sprinkling, removal of excess materials, cleaning of sites upon completion of activities.	▪ Location and covering of stockpiles ▪ Water sprinkling arrangement	▪ Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	No fugitive emission noted at site All mitigation measures applied
Impact on air quality – Emissions from construction related vehicles, equipment, machinery, resulting to dusts and increase in concentration of vehicle related pollutants such as	▪ Seasonal ambient air quality monitoring at the active construction site shall be carried out by contractor with the help of NABL / MoEF&CC approved laboratory, downwind of the project site. ▪ All the vehicles used for transportation of construction materials and construction activities should have valid PUC certificate, proper maintenance and servicing as per the requirement.	▪ Location of stockpiles ▪ Complaints from sensitive receptors ▪ Monitoring data- PM10, PM2.5 NO2, SO2, CO ▪ Heavy equipment and machinery with air pollution control	▪ Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Being complied as per requirement Equipment and vehicle have PUC certificate (sample attached in Appendix 2) No emission from installed green DG PPEs are used completely Air quality monitoring has been done

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons	- While digging for construction, dust prevention measures like water sprinkling, enclosing the area by shade cloth to attenuate dust will have to be taken. - All the diesel generator sets should have appropriate stack height (at least 3 m minimum) for proper dispersion of the gases, complying with the CPCB norms. The stack height should be determined using the formula; $H = h + 0.2 \times \text{SQRT}(kVA)$; where H is the total height of stack in m, h = height of the building where the DG set is to be installed (or the nearest building where there are residents) - Use of lead free and low sulphur diesel have to be encouraged. - The vehicles carrying construction materials should be properly covered to prevent dust falling from vehicles during plying. - All opened construction areas should be sprayed with water and frequently wetted during dry season to reduce impacts from dust emissions. - At the stock yard, loading and unloading area temporary fence should be provided. All the workers should be provided with Personal Protection Equipment (PPE).	- Water sprinkling arrangement - Cover materials					
Disturbance to Geology, Soil and Topography	The excavated soil should be removed from construction area at the earliest for beneficial reuse	Removal of excess earth, debris	Visual Inspection of sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC;	Being complied Cleaning, grabbing done Proper storage of earth

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Impacts due to due to clearing and grubbing, material extraction, soil erosion, contamination and change of contours	such as land raising / filling of excavated areas. - Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert. - Garland drains or earthen bunds shall be constructed around stockpile and storage area to arrest silt and sediment in case of sudden downpour; - Piling area for topsoil shall be separate and carefully selected to avoid contamination of the topsoil with other construction materials and debris as that has to be reused for reclamation and rehabilitation of excavated area and for green belt development.					PIU	and utilization at site for land development is noted Garland drain will be constructed as per design
Dismantling existing facilities for refurbishment and repair, domestic uses by workers. Unhygienic conditions in project site, campsite, solid waste decomposing and generating foul odours	- Construction materials should be disposed at the specified dumping site, according to the local municipal authority's norms and procedure. - Preparing and implementing a waste management plan for the construction site. - Segregating solid and liquid waste before disposal. - Manage solid waste according to the following hierarchy: reduce, reuse, recycle and dispose. - Prohibit disposal of any material or waste into drainage system, river and water bodies. 1 set of 2 dustbins at 12 places in project area including entry and exit locations at Chabimura	- Storage and disposal of construction materials and waste, respectively - Waste management plan - Complaints from sensitive receptors - PMU/ PIU/ PMSC to report in writing that the necessary environmental restoration work has been done	- Check ingmof records - Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Construction just started Being Complied-material stored at site and scrap materials are stored separately. No dismantling materials are generated

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	have been proposed along with dustbins at entry-exit locations of Maharani Barrage, Amarsagar and Fatiksagar. ▪ Additionally, bio-mechanical composter of 400 kg/ day capacity has been proposed						
Domestic usage of water Sewage generation from kitchen and toilets	▪ A septic tank for and soak pit arrangement shall be provided from waste water from toilets and kitchen separately to be maintained ▪ The septic tank should be cleared of the sludge waste periodically and send to nearest treatment plant	▪ Arrangement of septic tank ▪ Discharge of kitchen washing water	Visual inspection at sites	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	In labour camp. Septic tank provided with toilet. From kitchen, water drained to <i>nallaha</i> . Sludge will be collected from the tank and will be disposed.
Noise level impact – Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	▪ DG sets enclosed within acoustic chambers have to be provided and will need to keep noise levels below 75 dB(A) at 1 m from the DG Set as per the standards. ▪ Construction activities should be allowed strictly to daylight hours. Further, no two high noise generating equipment should be operated simultaneously. For example, use of dozer and cutting machine together will push the noise levels at the boundary of the site to above 85 dB(A), which is detrimental to the workers in the vicinity over long periods of exposure. ▪ All the instruments used should have lower sound power level. ▪ Installation of mufflers on engine exhausts and compressor components.	▪ Day time noise levels. ▪ Type of equipment used ▪ Noise reducing arrangement ▪ Health check up	▪ Check ing of records ▪ Visual inspection of sites	Covering different work locations.	Monitoring continuous basis- pre construction and during construction	Environment Specialist and support of PMSC; PIU	Till report period complied all. Pre construction noise monitoring has been conducted. Green silent DG installed at site. As per EMP mitigation measures are applied.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	- Limiting the operation hours for hammer, Jackhammer (if used). - Care should be taken that no employee be exposed to a noise level greater than 85 dB(A) for duration more than 8 hours per day without ear protection. - Periodic medical hearing check-up should be performed on workers exposed to high noise level. - The contractor should comply with EHS Guidelines for Occupational Health and Safety						
Ecological resource- Loss of vegetation and tree cover	- Excavation or any construction activities shall be done during stipulated and permitted time. - Rehabilitate the excavated area immediately after excavation or construction is over to avoid loss of further soil and biodiversity. - All air, noise, soil and water quality measures have to be abiding by for protecting biodiversity of the area. - Enclosing construction sites with safety sheets.	- Tree felling requirement and afforestation plan - Environment protection plan	- Check ing of records - Visual inspection at sites	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	As of now, tree felling requirement is not envisaged Work and camp areas are demarcated
Ground water quality- Contamination of ground water quality due to spillage of oil and lubricants	- Prepare and implement a spills management plan; - Provide impermeable liner on the ground and place layer of mortar or concrete over it in the oil and lubricants storage areas, provide spillage trap in oil and lubricant store, use dip tray and pump to pour oil from oil and lubricant drums;	- Construct ion methodology - Spillage/ spoil management plan - Work schedule - Ground water monitoring	- Docu ment check - Site inspection	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	- Work just started- no contamination of soil and water - Fuel stored separately - Ground water monitoring conducted

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	- Dispose any oil contaminated wastes generated by construction activities in scientific manner; and - Conduct ground water quality monitoring according to the EMP	report as per requirement					
Construction activities using construction machinery, equipment and transport of material through construction vehicles Noise Pollution - Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	- All construction vehicles and machineries will strictly conform to the CPCB noise standards. - Using equipment and machineries with sound insulation system. - Using padding for big windows to fill the gaps in order to avoid noise and vibration. - Comply with the time and noise limits specified in the Noise Standard (CPCB). - Limit construction activities to the daytime only. - Avoid loud random noise from sirens, air compression etc.	- Type of equipment / vehicle used and confirm CPCB standard - Day time and night time noise levels.	- Checking of records - Visual inspection of sites	Covering different work locations.	Monitoring continuous basis- pre construction and during construction	Environment Specialist and support of PMSC; PIU	Till report period complied all. Pre construction noise monitoring has been conducted. Checking of vehicles and equipment has been done
Repair of construction equipment, machinery onsite and transport of material from sources Land pollution	- Provision of impervious platform and oil & grease trap for collection of spillages from construction equipment vehicle maintenance platform. - There will be well defined 700 m length of vehicle driveway and parking places inside the premises with paver block arrangement	- Availability of access pathway. - Storage of fuels as per standard norms	Site inspection	Work sites and camps	Construction and post construction period	Environment Specialist and support of PMSC; PIU	Impervious platform provided at fuel storage area. Contamination not expected. Access provided for movement of vehicle and equipment

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	In addition, 1500 m length of access pathway has also been proposed that will reduce the pressure on green area destruction and prevent the land from being getting destroyed						
Waste spreading in the construction and tourism premises create unhygienic conditions	- Collecting biodegradable waste at separate bins and disposing of in a pit at designated areas 75 m away from the river. - Collecting non-bridgeable wastes in separate bins and storing them in a secured area within the camp location, and disposal of the same in the nearest municipal solid waste site.	- Waste management practices - Collection and storage of wastes at site	Site inspection	Work sites and area development site	Construction and post construction period	Environment Specialist and support of PMSC; PIU	Complied Waste collection system arranged at camp Waste will be handed over to ULB
Fire safety plan and fire fighting	- Contractor should have fire prevention plan and designated location plan for provision of fire extinguishers and related tools and equipment. - The contractor should give training to the workers on using fire extinguisher and conduct mock drills for emergency preparedness. - The contractor should ensure that an access for emergency exit is provided. - Design alarm system, fire protection system and emergency exits shall be provided if not available.	- Fire prevention plan - Fire alarm system - Safety arrangement - Training documents	- Checking of records - Visual inspection of sites	Project locations	Throughout the project period	Environment Specialist and support of PMSC; PIU	Complied Fire extinguisher available near fuel storage sites Training has been arranged for workers
Occupational Health and Safety	The construction contractor will be required to: Comply with all national, state and local labour laws	Site-specific Health and Safety (H&S) Plan	Checking of records	Project locations	Throughout the project period	Environment Specialist and support of PMSC; PIU	Site-specific Health and Safety (H&S) plan prepared and under

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Occupational hazards which can arise during work, safe from COVID 19	- Develop and implement site-specific occupational health and safety (OHS) Plan along with COVID-19 SOP which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment; (c) OHS Training¹⁵ including COVID 19 for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; - Ensure availability of first aid box at work site; - Make sure vaccination against COVID-19 is done for the labourers - Ensure the workers follow COVID 19 SOP and implement accordingly (COVID 19 SOP guideline attached in Appendix 26); - Maintain Safe distance at work and use of Mask should be encouraged for safeguard from COVID-19	- Application of labour laws - Equipped first-aid stations; - Medical insurance coverage for workers - Number of accidents - Supplies of potable drinking water; - Record of H&S orientation trainings - Personal protective equipment - Sign boards for hazardous areas such as energized electrical devices and	Visual inspection of sites				implementation. Copy of the approved Health and Safety plan available with PMSC. PIU H & S training including COVID 19 awareness done on regular basis. Sample attached in Appendix 12 Drinking water and first aid box available at site. Use of PPEs by workers noted. Use of shoes / gumboot is necessary Tie up letter with nearby health center in case of emergency - obtained (Appendix 8). Health check-up was conducted (Appendix 9) Medical Insurance

¹⁵ 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; 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.

Impacts from IEE)	(List	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
		- Provide medical insurance coverage for workers - Secure all installations from unauthorized intrusion and accident risks; - Provide health and safety 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; - Ensured the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; - Ensured 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; - Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively.	lines, service rooms					arranged for the labourer (attached in Appendix 4. Accident/ First aid register is maintained at each site. There is one first aid cases (sample attached as Appendix 15) Poster on GRM- GRC and IEE's Executive Summary in local to be placed at work site

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	- Provide supplies of potable drinking water; - Provide clean eating areas where workers are not exposed to hazardous or noxious substances						
Waste disposal	- The Contractor would take an active role with regards to the reprocessing and recycling of waste generated by the proposed subproject. An evaluation of the potential for recycling would occur before the project commences. - Waste segregation would be done and non-recyclable wastes will be disposed at an approved solid waste facility. - An area for segregation of waste at the construction site and type of wastes to be recycled, disposed and hazardous / heavy metal laden wastes for safe disposal to be identified.	Waste – spoil management plan	Site inspection and review of documents	Work and camp sites	Construction phases	Environment Specialist and support of PMSC; PIU	Construction just started Segregation and Waste disposal will be done
Construction camps- Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants. Unsanitary and poor living conditions for	- The construction contractor is required to: - As far as possible locate the camp site within the work sites; if any camp to be established outside these, then select a camp site away from residential areas (at least 50 m buffer shall be maintained) - Avoid tree cutting for setting up camp facilities - Ensure that a proper compound wall is provided, and erect a wind/dust screen around	- Public grievance - Accommodation - Water and sanitation facilities for employees - Housekeeping – regular disposal of solid waste	Site inspection and review of documents	Construction camps	Preconstruction and construction phases	Environment Specialist and support of PMSC; PIU	Complied at work site LPG, drinking water, toilet and separate kitchen area provided. Camp is located away from the river and within demarcated area.. No tree cutting done Drainage, proper safety arranged maintained at labour camp

Impacts from IEE)	(List	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
workers		▪ Camp site shall not be located near (100 m) water bodies, flood plains flood prone/low lying areas, or any ecologically, socially, archeologically sensitive areas ▪ Construction camp must be safeguarded from COVID -19 including safe eating area, maintaining Hygiene inside camp, ensure physical distancing measures ▪ Separate the workers living areas and material storage areas clearly with a fencing and separate entry and exit ▪ Provide proper temporary accommodation with proper materials, adequate lighting and ventilation, appropriate facilities for winters and summers; ensure conditions of liveability at work camps are maintained at the highest standards possible at all times; ▪ Consult cluster-PIU before locating project offices, sheds; ▪ Minimize removal of vegetation and disallow cutting of trees ▪ Ensure conditions of liveability at work camps are always maintained at the highest standards possible; living quarters and construction camps shall be provided with standard materials (as far as possible to use portable ready to fit-in reusable cabins with						

Impacts from IEE)	(List	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
		proper ventilation); thatched huts, and facilities constructed with materials like GI sheets, tarpaulins, etc., shall not be allowed as accommodation for workers ▪ Camp shall be provided with proper drainage, there shall not be any water accumulation ▪ Ensure COVID vaccination is done for all the labours involved in the work ▪ Provide drinking water, water for other uses, and sanitation facilities for employees ▪ Prohibit employees from cutting of trees for firewood; contractor should be provided proper facilities including cooking fuel (oil or gas; fire wood not allowed) ▪ Train employees in the storage and handling of materials which can potentially cause soil contamination ▪ Recover used oil and lubricants and reuse or remove from the site ▪ Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; provide a compost pit for biodegradable waste, and non-biodegradable / recyclable waste shall be collected and sold in local market						

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
	Remove all wreckage, rubbish, or temporary structures which are no longer required						
Accidents and safety	Provision as well as maintaining the traffic management system comprising of diversion; warning, guiding and regulatory signage, provision of dust control system etc. as specified in the contract.	- Traffic Management plan - Arrangement of signage	Site inspection	Project Locations	Throughout the construction stage	Environment Specialist and support of PMSC; PIU	Work just started and continued at specific location, traffic diversion is not required
Impact on socio economic condition	- Provide sign boards for pedestrians and local commercial establishments to inform nature and duration of construction works and contact numbers for concerns/complaints. - Employ at least 50% of the labour force, or the maximum extent, local persons from the vicinity of the project area, if possible.	- Availability of sign board - Employment record of workers	- Site inspection - Document checking	Project Locations	Throughout the construction stage	Environment Specialist and support of PMSC; PIU	Being complied as per contract provision
Environmental Management Plan (EMP) Implementation Training along with COVID 19 safety Irreversible impact to the environment, workers, and community, Impact due to effect of COVID 19	Project manager and all key workers will have undergone training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OHS) including COVID-19(SOP), core labor laws, applicable environmental laws, etc.	- Training documents - SOP for maintaining safety - OHS	Review of documents and site inspections	Project Locations	Throughout the construction stage	Environment Specialist and support of PMSC; PIU	Safety training conducted at site

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/CHB/W 01
Post-construction activities Unsightly and unhygienic conditions due to debris, septic tank and other hazardous chemicals as well as C&D wastes	- Site clean-up activities to be carried out which are necessary after construction activities. - Restore temporary work areas, remove all tools and equipment, barricades, surplus material, debris and waste material used for the construction. - If not utilized for reuse purpose, dispose in designated sites. - Proper documentation is to be maintained for the restoration of work site.	- Stockpile Management - Spoil Management - Restoration of sites	Review of documents and site inspections	Project Locations	Construction and after construction	Environment Specialist and support of PMSC; PIU	To be complied as per EMP Work just started at site

Table 11: Summary of Environmental Monitoring Activities for the Package Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Location & Design Stage							
Integration of EMP in bidding documents and contracts Lack of awareness by contractors on ADB SPS requirements may result in insufficient budget and non-implementation	- Once the Contractor is selected, the PIU with support from PMSC will inform contractors on their responsibilities in EMP implementation, in compliance with ADB SPS and government requirements, self-monitoring and reporting procedures. - The PMU will incorporate the costs of implementing OHS and the EMP as well as specific provisions requiring contractors to comply with all other conditions	- Contract / BID document - Health and safety plan	Document checking	Project locations	During final design, before commencement of work	Environment Specialist and support of PMSC; PIU	Considered in the design and contract agreement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
of EMP	required into the bidding and contract document.						
Procurement of battery-operated boats and golf carts	- All equipment shall be confirmed to applicable standards, including pollution control, safety - Manufacture shall provide safety equipment, training, and emergency response plans should be in place to ensure the safety of the crew and passengers - Manufacture shall provide assistance in disposal/ recycling of all used components including batteries at the end of their useful life as per latest E waste management rules, Hazardous waste management rules and battery waste management rules of government of India	Design components	Document checking	Project locations- considered under separate package	During final design	Environment Specialist and support of PMSC; PIU and PMU	To be considered under different packages
Location impacts of proposed components--- Nearby community may be affected due to increased pollution during construction Increased carrying capacity of site Increased water requirement and disposal for	- Site location of Sonamukhi is adjacent to nearby habitation in Kaulikura GP and about 6 km from Kailashahar, the District HQ of Unakoti District, which positively benefit the region - Kailashahar would benefit from renovated Unakoti lodge attracting more tourists to the town. - Follow relevant national planning and design guidelines for technical design of the visitor facilities, parking, amenities, eco adventure areas, cottages, indoor games, gymnasium, conference room, restaurants, landscaping etc., - Follow relevant standards and guidelines such as CPHEEO for designing of physical infrastructure	- Checking of selected sites and design - Checking of mitigation measures of EMP	- Site observation - Desk review of documents	All project locations	During design	Environment Specialist and support of PMSC; PIU	Considered during detailed design. CPHEEO guideline is followed Site is free from any impact

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
waste Impact due to proximity to River Manu	facilities such as water supply, sewerage, storm drainage, solid waste management, power requirements etc. ▪ focus on providing a robust system which is easy to operate, sustainable, efficient, and economically viable. ▪ Design measures for treatment of waste water, storm water drainage, solid waste management and construction waste management are incorporated in design						
Change of landuse impacts the potential pollution	▪ Locate all sub-projects already existng footprint areas and maintain same landuse to the maximum extent	• Design parameters	• Document checking	Project sites	During design	Environment Specialist and support of PMSC; PIU	Complied completely
Extraction of construction material -- Extraction of borrow material and boulders impact the geology and topography	▪ Material procurement will be from sources approved by the GoT or from approved third party	• List of approved quarry, borrow pit sites and sources of materials • Construction Contractor • documentation	• Checking of records • Visual Inspection of sites	Quarries and material source areas	During design and implementati on	Environment Specialist and support of PMSC; PIU	Material purchased from license source. Royalty receipt sample copy attached as Appendix 6 .
Pre-construction stage							
Permits, Consents, Clearances and NOCs- Environmental legal non-compliance may attract legal	▪ Obtain all necessary groundwater withdrawal permission, TSPCB consents, permits, clearance, NOCs, etc. prior to start of civil works. ▪ Provide report on compliances of all obtained consents, permits, clearances etc.	List of applicable legislation and present status	Checking of documents	All project locations	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Being Complied and to be continued as per requirement All NOCs applicable – collected Site specific EMP developed. Base line monitoring

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
actions Failure to obtain necessary consents, permits, NOCs etc. can result to design revisions and/or stoppage of works	- Update IEE and EMP prior to starting of works to reflect any changes in project design during design verification and detailed field survey, and submit to ADB for clearance and disclosure - Prepare SEMP based on the updated EMP, and approved by PIU prior to commencement of works - Include in detailed design drawings and documents, all the conditions and provisions stipulated in permits, consents issued by regulatory agencies. - Contractor to conduct pre-construction (baseline) environmental monitoring as indicated in EMP budget tables. The monitoring results shall be referred as baseline quality for key environmental parameters of air, water and noise) - Select and Get NOC for construction camp location from ULB.						has been conducted
Construction work camps, stockpile areas, storage areas, and disposal areas. Conflicts with local community; disruption to traffic flow and sensitive receptors	- Layout plans, areas for construction zone (camp sites, stockpiling, storage and surroundings). - The construction camp and stockpile, storage of fuel and lubricants will be avoided nearby any environmentally sensitive areas, forest area and residential areas. These areas will be finalized in consultation with PIU/supervision consultant.	- Selected location layout plan nearby the work site - Checking of camp set up guideline	- Site observation - Review of documents - Grievance Register	Specific project location	Before commencement of final design and commencement of construction	Environment Specialist and support of PMSC; PIU	Being Complied No disruption noted. Area selected nearby vacant place with all facilities No excess spoil generated. Waste collection system arranged

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	- Establish construction camp away from habitation with proper ventilation system, water facility, provision of beds, septic tank or mobile toilets fitted with anaerobic treatment facility. - Measures shall be taken to prevent mosquito breeding at site. Ensure spraying of bleaching powder or phenyl at regular intervals. - Provision of LPG at construction camp for cooking. Usage of firewood to be prohibited strictly. - Domestic solid waste at construction camp shall be segregated into biodegradable and non-biodegradable waste. - Ensure hygiene of the construction camp as well as the kitchen. - Ensure provision of permeable drains and gutters around the construction camp site. - Guidelines for setting up of construction camps and facilities to be provided are reviewed.						
Labour Requirements Conflict with local labour	The contractor preferably will use unskilled labours from local communities to give maximum benefit to the local community.	Labour engagement – category and origin	Checking of appointment letters	Covering all work sites	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Local labours are engaged
Borrow area / Material procurement Extraction of	- Use material sources permitted by government - Verify suitability of all material sources and obtain approval of PIU;	List of approved Quarry and borrow pit sites and sources of	- Checking of records - Visual Inspection of sites	Quarries and material source areas	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Procurement of materials just started. All materials are sourced from licensed vendor having legal

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution	- Ensure that the loading and unloading of the materials and the transportation of the materials from source to construction site does not cause impact on health and safety of the workers and the community; and - Submit to PIU on a monthly basis documentation of sources of materials. If contractor is purchasing ready mix concrete, asphalt/macadam and aggregates from third party, contractor will assure that all the parties/ suppliers are having CTE/CTO from TSPCB and will collect the copy of these certificates and submit to PIU/consultants	materials Construction contractor documentation					permission
Construction water Water extraction for construction activities and labour camps can disrupt usage by local community	- The Contractor will use ground / surface water as a source of water for the construction with prior permission from CGWB/ Department of water resource . - To avoid disturbance to other water users, the Contractor will use only permissible quantity of water . - The Contractor will provide a list of locations & type of sources from where water for construction will be obtained. - The Contractor will need to comply with the requirements of the State Ground Water Department for the extraction & seek their approval for doing so & submit copies of the permission to the PIU/PMU.	- Design document - Permission and conditions of NOC	Document checking	Project area, camp	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	Applied to CGWA for extraction of ground water for construction purpose (Appendix 5)

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Monitoring of Environmental baseline parameters prior to start of construction activities Establish base line environmental conditions	- Photograph and videograph all pre construction site conditions - Conduct environmental monitoring as per approved monitoring plan - Include photos and GPS coordinates.	- Environment monitoring report - Photos and GPS coordinate checking	Document checking	For entire project areas	Pre-construction stage	Environment Specialist and support of PMSC; PIU	Base line – air, water and noise monitoring has been done
Public disclosure leads to smooth progress of work and timely redressal of any grievances quickly	- Continue information dissemination, consultations and involvement/participation of stakeholders during project implementation. - Capacity building training on environmental and social issues related to the project	- Awareness and public disclosure documents - Training documents - Grievance redressal	Document checking	Project area	Before commencement of work and during construction	Environment Specialist and support of PMSC; PIU	At present work just started for preparation of land and continued at fixed location. To be done as per type of work and project location
Preparation of H&S Plan for Pandemic like COVID-19 With the existing EHS guidelines contracture has to prepare a site specific EHS plan including COVID - 19	- The Contractor to prepare and shall abide by the most stringent procedure available for EHS plan including COVID-19 guidelines . - Consistently practice social distancing. - Cover coughs and sneezes. - Maintain hand hygiene. - Clean surfaces frequently.	Prepared health and safety plan	Checking of documents	Covering all work sites	Before commencement of construction	Environment Specialist and support of PMSC; PIU	HS plan prepared and approved
Construction stage							

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Environmental Management Plan (EMP) Implementation Training along with COVID 19 safety Irreversible impact to the environment, workers, and community, Impact due to effect of COVID 19	Project manager and all key workers will have undergone training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OHS) including COVID-19(SOP), core labor laws, applicable environmental laws, etc.	- Induction & Awareness Trainings - Toolbox Talks Safeguard Trainings	- Review of Training records - Site Inspections	Project Locations	-	Environment Specialist and support of PMSC; PIU	Being Complied; Site Environmental Safety training and awareness arranged. However, number of trainings depends on arrival of new workers Sample training document is attached as Appendix 12.
Construction works close to water bodies Water Quality impact due to contamination from debris, open defecation, oil & grease	- The campsites and storage areas should be established at a minimum distance of 75 m from the river in the areas that would not be affected by flooding and clear of any natural or storm water courses. - No debris should be thrown or collected within 75 m from the edge of the river. - Vehicle parking areas, warehouses and workshop locations must have impervious flooring to prevent seepage of any solvents, paints, leaked oil & grease into the ground. The area should be covered with a roof to prevent the entry of rainwater. - Strictly prohibit open defecation by workers.	Camp site, storage area, debris disposal area checking	Checking of documents	Covering all work sites	Before commencement of construction	Environment Specialist and support of PMSC; PIU	Construction work-land preparation just started. All precautionary measures will be taken up for protection of water bodies Camp site has been selected nearby the work location. No waterbody located nearby. Vehicle parking selected near site office, away from any waterbody.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Siltation of water bodies & degradation of water quality	- Schedule construction activities during non-monsoon season to the maximum extent possible. - Ensure not to excavate beds of any waterbody for borrowing of earth. - Ensure drainages within the construction zones are kept free of obstructions. - If required silt fencing needs to be provided adjacent to waterbodies and around the stockpiles at the construction site close to water bodies. - Ensure construction materials containing fine particles are stored in a suitable enclosure to avoid their drainage to the nearby water body. - Dispose any residuals at identified disposal site (approved/identified by local governing bodies). - Inspect all vehicles daily for fluid leaks, before leaving the vehicle staging area, and repair any leaks before the vehicle resume operations. - Strictly prohibit open defecation by workers in nearby areas. - Ensure mobile toilets at the construction work / camp sites to avoid open defecation.	- Areas for stockpiles, storage of fuels and lubricants and waste materials - Number of silt traps installed along drainages (in slope) leading to water bodies - Entry routes of pollutant in nearby Waterbodies	- Site inspection - Public grievance register	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	Through application of mitigation measures entry of silt in the water body will be stopped Open defecation is not allowed near work site

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Flood prevention Inundation from high floods, erosion due to high velocity of water and safety of residents / tourists during floods	- Ensure provision of permeable drains and gutters around the construction site to divert rainwater to the nearby waterbody. - Maintenance of green areas boundaries	- Design mechanism - Green area maintainance	- Site inspection - Checking of design parameters	Project area	Throughout the project period – pre construction and construction stage	Environment Specialist and support of PMSC; PIU	Drainage provision and green area maintenance considered in the design
Storage of materials at campsites / stockpile areas- Air Pollution	- Conduct regular water spraying on stockpiles. - Avoid stockpiling of excavated and construction material unless covered by tarpaulins or plastic sheets to avoid dispersion of loose dry construction materials. - Conduct regular site inspections in the construction zones to ensure adequate measures have been taken to suppress emission of excessive dust during construction period.	- Location of stockpiles - Monitoring data- PM10, PM2.5 NO2, SO2, CO - Heavy equipment and machinery with air pollution control - Water sprinkling arrangement - Cover materials - Arrangement of safety measures	- Site inspection - Document checking	Covering different project locations. Air – monitoring: At selected sites	Continuous process Base line and during construction Base line air quality monitoring has been done on April 2024	Environment Specialist and support of PMSC; PIU	Complied as per SEMP
Indoor air pollution and safety of workers	- Comply with safety measures during painting works in enclosed spaces such as Unakoti Lodge and buildings proposed in the Sonamukhi project sub-components - Mixing and cleaning operation emits VOCs, hence should be carried out in an enclosed area. - Use of non-hazardous biocide containing paints rather	Safety measures applicable for the project	Site inspection	Camp and office sites	Continuous throughout project period	Environment Specialist and support of PMSC; PIU	Being Complied as per SEMP

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	mercury or lead containing paints should be encouraged.						
Air pollution from construction machinery, equipment and vehicles – Emissions from construction related vehicles, equipment, machinery, resulting to dusts and increase in concentration of vehicle related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons	- Construction materials should be transferred through tarpaulin covered vehicles during transportation and delivery. - All vehicles used by the contractor should have copies of valid Pollution under Control (PUC) certificates as on date as per the requirement of the State Transport Department for the entire duration of the contract. - Sprinkling water and unloading inside the barricaded area will be made to Control dust generation while unloading the loose material (particularly aggregate, soil) at the site - Water is used to maintain soils in a visible damp or crusted condition for temporary stabilization - Water to be used prior to leveling or any other earth moving activity to keep the soil moist throughout the process	- Location of stockpiles - Complaints from sensitive receptors - Monitoring data- PM10, PM2.5 NO2, SO2, CO - Heavy equipment and machinery with air pollution control - Water sprinkling arrangement - Cover materials	Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Being complied as per requirement Preparatory work just started. Equipment and vehicle have PUC certificate (sample attached in Appendix 2) PPEs are used completely as per requirement Air quality monitoring has been done
Fugitive emissions from stockpiles	- Covered stockpiling and storage areas (chemicals, paints, electric equipment etc.) should be ensured. - Construction of temporary enclosures to entrap dust. - Water sprinkling, removal of excess materials, cleaning of sites upon completion of activities.	- Location and covering of stockpiles - Water sprinkling arrangement	Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	No fugitive emission noted at site All mitigation measures applied
Impact on air quality –	Seasonal ambient air quality monitoring at the active	Location of stockpiles	Visual Inspection at	Project locations	Throughout construction	Environment Specialist and	Being complied as per requirement

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Emissions from construction related vehicles, equipment, machinery, resulting to dusts and increase in concentration of vehicle related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons	construction site shall be carried out by contractor with the help of NABL / MoEF&CC approved laboratory, downwind of the project site. - All the vehicles used for transportation of construction materials and construction activities should have valid PUC certificate, proper maintenance and servicing as per the requirement. - While digging for construction, dust prevention measures like water sprinkling, enclosing the area by shade cloth to attenuate dust will have to be taken. - All the diesel generator sets should have appropriate stack height (at least 3 m minimum) for proper dispersion of the gases, complying with the CPCB norms. The stack height should be determined using the formula; $H = h + 0.2 \times \text{SQRT}(kVA)$; where H is the total height of stack in m, h = height of the building where the DG set is to be installed (or the nearest building where there are residents) - Use of lead free and low sulphur diesel have to be encouraged. - The vehicles carrying construction materials should be properly covered to prevent dust falling from vehicles during plying. - All opened construction areas should be sprayed with water and frequently wetted during dry	- Complaints from sensitive receptors - Monitoring data- PM10, PM2.5 NO2, SO2, CO - Heavy equipment and machinery with air pollution control - Water sprinkling arrangement - Cover materials	sites		phase	support of PMSC; PIU	Water sprinkling arranged at site. Equipment and vehicle have PUC certificate (sample attached in Appendix 2) No emission from installed green DG PPEs are used completely Air quality monitoring has been done

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	season to reduce impacts from dust emissions. ▪ At the stock yard, loading and unloading area temporary fence should be provided. All the workers should be provided with Personal Protection Equipment (PPE).						
Disturbance to Geology, Soil and Topography Impacts due to clearing and grubbing, material extraction, soil erosion, contamination and change of contours	▪ The excavated soil should be removed from construction area at the earliest for beneficial reuse such as land raising / filling of excavated areas. ▪ Completed earthworks to be sealed and/or re-vegetated at the earliest with the help of landscape expert. ▪ Garland drains or earthen bunds shall be constructed around stockpile and storage area to arrest silt and sediment in case of sudden downpour; ▪ Piling area for topsoil shall be separate and carefully selected to avoid contamination of the topsoil with other construction materials and debris as that has to be reused for reclamation and rehabilitation of excavated area and for green belt development.	▪ Removal of excess earth, debris	▪ Visual Inspection of sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Being complied Cleaning, grabbing, vegetation cleaning continued Proper store of earth and utilization at site for land development is noted Drain will be developed
Dismantling existing facilities for refurbishment and repair, domestic uses by workers- Unhygienic conditions in	▪ Construction materials should be disposed at the specified dumping site, according to the local municipal authority's norms and procedure. ▪ Preparing and implementing a waste management plan for the construction site.	▪ Storage and disposal of construction materials and waste, respectively ▪ Waste management plan	▪ Checking of records ▪ Visual Inspection at sites	Project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	Construction just started Being Complied-material stored at site and scrap materials will be stored separately Permission has been received from

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
project site, campsite, solid waste decomposing and generating foul odours	- Follow ADB Good Practice Guidance for the Management and Control of Asbestos - Protecting Workplaces and Communities from Asbestos Exposure Risks (March 2022)¹⁶ if ACM are detected - Segregating solid and liquid waste before disposal. - Manage solid waste according to the following hierarchy: reduce, reuse, recycle and dispose. - Prohibit disposal of any material or waste into drainage system, river and water bodies. 1 set of 2 dustbins at 12 places in project area including entry and exit locations of eco-accommodation and eco-adventure zones have been proposed along with dustbins at Unakoti lodge - Additionally bio-mechanical composter of 400 kg/day capacity has been proposed	- Complaints from sensitive receptors - PMU/ PIU/ PMSC to report in writing that the necessary environmental restoration work has been done					Kalishahar ULB for disposal of dismantling materials, garbage of Unakoti tourist lodge (Appendix 7) Unakoti tourist lodge work not yet started.
Surface water quality Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during construction can contaminate	- All the digging and construction related activities should be avoided during monsoon months. The construction works shall be scheduled during dry season so that local flooding and silting can be avoided. - Plastic sheet fencing should be placed around all excavations and earthwork areas.	- Areas for stock piles, storage of fuels and lubricants and waste materials. - Entry routes of pollutant in nearby water bodies.	Site inspection	All project locations	Throughout construction phase	Environment Specialist and support of PMSC; PIU	To be complied. Work just started. - All excess spoil, will be utilized for backfilling and for filling up of low laying sites. - No waste has been deposited nearby waterbody

¹⁶ <https://www.adb.org/sites/default/files/publication/783636/good-practice-management-control-asbestos.pdf>

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
nearby surface water quality. Ponding of water in the pits/foundation excavations	- Disturb only the area required for the project, while keeping intact the rest of the vegetated area so that minimum harm is caused to the topsoil layer and the existing vegetation. - Sediment control traps, silt fencing or sediment basins shall be made to control silt laden runoff entering the water body and clogging drainage channels in the area. - Ensure drainage located within the construction area to be clear and free of obstructions - Mulching to stabilize exposed area and lining steep channel and slopes. - The stockpiles, construction materials have to be kept at least 50 m away from Nageshwari Chhara and Kathal tank. - The construction camp location should be identified in consultation with ULB and to be established away from Manu River floodable area or any other waterbody. - Provide appropriate wastewater treatment facilities and no untreated wastewater shall be discharged into the water bodies - Maintain a stockpile of topsoil for immediate site restoration following backfilling. - Protect exposed or cut slopes with planted vegetation, and						- Surface and ground water quality has been monitored as per EMP - Stockpile placed at isolated areas, away from any waterbody. - Generation of construction waste is very less. - Fuel and lubricant will be stored separately

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	have a slope stabilization protocol ready. - Surface soil is reserved for restoration after excavation; - All construction fluids such as oils, and fuels should be stored and handled well away from all surface waters - Contact Forest department for advice on how to minimize damage to trees and vegetation. - All areas to be re-vegetated and landscaped after construction completed. Consult Forest department to determine the most successful restoration strategy and techniques in area. Replant five trees for each tree removed.						
Domestic usage of water Sewage generation from kitchen and toilets	- A septic tank for and soak pit arrangement shall be provided from waste water from toilets and kitchen separately to be maintained - The septic tank should be cleared of the sludge waste periodically and send to nearest treatment plant	- Arrangement of septic tank - Discharge of kitchen washing water	Visual inspection at sites	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PIU	In labour camp. Septic tank provided with toilet From kitchen water drained to <i>nallaha</i> Sludge will be collected from the tank.
Noise level impact – Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	- DG sets enclosed within acoustic chambers have to be provided and will need to keep noise levels below 75 dB(A) at 1 m from the DG Set as per the standards. - Construction activities should be allowed strictly to daylight hours. Further, no two high noise generating equipment should be operated simultaneously. For example, use of dozer and cutting machine together will push the noise	- Day time noise levels. - Type of equipment used - Noise reducing arrangement - Health check up	- Checking of records - Visual inspection of sites	Covering different work locations.	Monitoring continuous basis- pre construction and during construction	Environment Specialist and support of PMSC; PIU	Work just started. Till report period complied all. Pre construction noise monitoring has been conducted Green silent DG installed at site Mitigation measures are applied

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	levels at the boundary of the site to above 85 dB(A), which is detrimental to the workers in the vicinity over long periods of exposure. - All the instruments used should have lower sound power level. - Installation of mufflers on engine exhausts and compressor components. - Limiting the operation hours for hammer, Jackhammer (if used). - Care should be taken that no employee be exposed to a noise level greater than 85 dB(A) for duration more than 8 hours per day without ear protection. - Periodic medical hearing check-up should be performed on workers exposed to high noise level. - The contractor should comply with EHS Guidelines for Occupational Health and Safety						
Ecological resource- Loss of vegetation and tree cover	- Excavation or any construction activities shall be done during stipulated and permitted time. - Rehabilitate the excavated area immediately after excavation or construction is over to avoid loss of further soil and biodiversity. - All air, noise, soil and water quality measures have to be abiding by for protecting biodiversity of the area. - Enclosing construction sites with safety sheets.	Tree felling requirement and afforestation plan Environment protection plan	- Checking of records - Visual inspection at sites	Project locations	Pre-construction and throughout construction phase	Environment Specialist and support of PMSC; PI U	As of now, tree felling requirement is not envisaged Work and camp areas are demarcated

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Ground water quality- Contamination of ground water quality due to spillage of oil and lubricants	- Prepare and implement a spills management plan; - Provide impermeable liner on the ground and place layer of mortar or concrete over it in the oil and lubricants storage areas, provide spillage trap in oil and lubricant store, use dip tray and pump to pour oil from oil and lubricant drums; - Dispose any oil contaminated wastes generated by construction activities in scientific manner; and - Conduct ground water quality monitoring according to the EMP	- Construction methodology - Spillage/ spoil management plan - Work schedule - Ground water monitoring report as per requirement	- Document check - Site inspection	All project locations	Visit of PMSC – support and Expert and PIU's safeguard in-charge throughout construction period	Environment Specialist and support of PMSC; PIU	- Work just started- no contamination of soil and water - Fuel to be stored separately - Pre construction ground water monitoring has been done.
Construction activities using construction machinery, equipment and transport of material through construction vehicles Noise Pollution - Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	- All construction vehicles and machineries will strictly conform to the CPCB noise standards. - Using equipment and machineries with sound insulation system. - Using padding for big windows to fill the gaps in order to avoid noise and vibration. - Comply with the time and noise limits specified in the Noise Standard (CPCB). - Limit construction activities to the daytime only. - Avoid loud random noise from sirens, air compression etc.	- Type of equipment / vehicle used and confirm CPCB standard - Day time and night time noise levels.	- Checking of records - Visual inspection of sites	Covering different work locations.	Monitoring continuous basis- pre construction and during construction	Environment Specialist and support of PMSC; PIU	Till report period complied all. Work just started. Pre construction noise monitoring has been conducted. Checking of vehicles done

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
Repair of construction equipment, machinery onsite and transport of material from sources Land pollution	- Provision of impervious platform and oil & grease trap for collection of spillages from construction equipment vehicle maintenance platform. - There will be well defined 700 m length of vehicle driveway and parking places inside the premises with paver block arrangement - In addition, 1500 m length of access pathway has also been proposed that will reduce the pressure on green area destruction and prevent the land from being getting destroyed	- Availability of access pathway. - Storage of fuels as per standard norms	Site inspection	Work sites and camps	Construction and post construction period	Environment Specialist and support of PMSC; PIU	Impervious platform provided at fuel storage area. Contamination not expected Access provided for movement of vehicle and equipment
Waste spreading in the construction and tourism premises create unhygienic conditions	- Collecting biodegradable waste at separate bins and disposing of in a pit at designated areas 75 m away from the river. - Collecting non-bridgeable wastes in separate bins and storing them in a secured area within the camp location, and disposal of the same in the nearest municipal solid waste site.	- Waste management practices - Collection and storage of wastes at site	Site inspection	Work sites and area development site	Construction and post construction period	Environment Specialist and support of PMSC; PIU	Complied Waste collection system arranged
Fire safety plan and fire fighting	- Contractor should have fire prevention plan and designated location plan for provision of fire extinguishers and related tools and equipment. - The contractor should give training to the workers on using fire extinguisher and conduct mock drills for emergency preparedness.	- Fire prevention plan - Fire alarm system - Training documents	- Checking of records - Visual inspection of sites	Project locations	Through out the project period	Environment Specialist and support of PMSC; PIU	Complied Fire extinguisher available near fuel storage site and office. Training has been arranged for workers

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	- The contractor should ensure that an access for emergency exit is provided. - Design alarm system, fire protection system and emergency exits shall be provided if not available.						
Occupational Health and Safety Occupational hazards which can arise during work, safe from COVID 19	The construction contractor will be required to: - Comply with all national, state and local labour laws - Develop and implement site-specific occupational health and safety (OHS) Plan along with COVID-19 SOP which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment; (c) OHS Training¹⁷ including COVID 19 for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; - Ensure availability of first aid box at work site;	- Site-specific Health and Safety (H&S) Plan - Application of labour laws - Equipped first-aid stations; - Medical insurance coverage for workers - Number of accidents - Supplies of potable drinking water; - Record of H&S orientation trainings	- Checking of records - Visual inspection of sites	Project locations	Throughout the project period	Environment Specialist and support of PMSC; PIU	Site-specific Health and Safety (H&S) Plan prepared and under implementation. Copy of the approved Health and Safety plan available with PMSC. PIU H & S training including COVID 19 awareness done on regular basis. Sample attached in Appendix 12. Drinking water and first aid box available at site. Use of PPEs by

¹⁷ 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; 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.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	- Make sure vaccination against COVID-19 is done for the labourers - Ensure the workers follow COVID 19 SOP and implement accordingly (COVID 19 SOP guideline attached in Appendix 26); - Maintain Safe distance at work and use of Mask should be encouraged for safeguard from COVID-19 - Provide medical insurance coverage for workers - Secure all installations from unauthorized intrusion and accident risks; - Provide health and safety 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; - Ensured the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; - Ensured 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	- Personal protective equipment - Sign boards for hazardous areas such as energized electrical devices and lines, service rooms					workers noted satisfactory Tie up letter with nearby health center in case of emergency - obtained (Appendix 12) .Health check-up to be conducted after mobilization of complete work force. Medical Insurance arranged for the labourer (attached in Appendix 4) Accident/ First aid register is maintained at each site. There is no first aid cases Poster on GRM- GRC and IEE's Executive Summary in local language to be placed at work site

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	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; - Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. - Provide supplies of potable drinking water; - Provide clean eating areas where workers are not exposed to hazardous or noxious substances						
Waste disposal	- The Contractor would take an active role with regards to the reprocessing and recycling of waste generated by the proposed subproject. An evaluation of the potential for recycling would occur before the project commences. - Waste segregation would be done and non-recyclable wastes will be disposed at an approved solid waste facility. - An area for segregation of waste at the construction site and type of wastes to be recycled, disposed and hazardous / heavy metal laden wastes for safe disposal to be identified.	Waste – spoil management plan	Site inspection and review of documents	Work and camp sites	Construction phases	Environment Specialist and support of PMSC; PIU	Construction just started Segregation and Waste disposal will be done
Quality and safety of construction	The contractor should procure construction materials from certified suppliers.	Checking of quality certificate of	Document checking	Construction sites/ Office	Preconstruction and construction	Environment Specialist and support of	Construction material procurement has just started.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
materials Construction material not meeting the quality standards and affecting the durability		material supplier			phases	PMSC; PIU	
Construction camps- Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants. Unsanitary and poor living conditions for workers	▪ The construction contractor is required to: ▪ As far as possible locate the camp site within the work sites; if any camp to be established outside these, then select a camp site away from residential areas (at least 50 m buffer shall be maintained) ▪ Avoid tree cutting for setting up camp facilities ▪ Ensure that a proper compound wall is provided, and erect a wind/dust screen around ▪ Camp site shall not be located near (100 m) water bodies, flood plains flood prone/low lying areas, or any ecologically, socially, archeologically sensitive areas ▪ Construction camp must be safeguarded from COVID -19 including safe eating area, maintaining Hygiene inside camp, ensure physical distancing measures ▪ Separate the workers living areas and material storage areas clearly with a fencing and separate entry and exit	• Public grievance • Accommodation arrangement • Water and sanitation facilities for employees • Housekeeping – regular disposal of solid waste	• Site inspection and review of documents/ facility	Construction camps	Preconstruction and construction phases	Environment Specialist and support of PMSC; PIU	Complied at work site LPG, drinking water, toilet and separate kitchen area provided. Camp is located away from the waterbody No tree cutting done Drainage, proper safety arranged maintained at labour camp Access available.

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	▪ Provide proper temporary accommodation with proper materials, adequate lighting and ventilation, appropriate facilities for winters and summers; ensure conditions of liveability at work camps are maintained at the highest standards possible at all times; ▪ Consult PIU before locating project offices, sheds; ▪ Minimize removal of vegetation and disallow cutting of trees ▪ Ensure conditions of liveability at work camps are always maintained at the highest standards possible; living quarters and construction camps shall be provided with standard materials (as far as possible to use portable ready to fit-in reusable cabins with proper ventilation); thatched huts, and facilities constructed with materials like GI sheets, tarpaulins, etc., shall not be allowed as accommodation for workers ▪ Camp shall be provided with proper drainage, there shall not be any water accumulation ▪ Ensure COVID vaccination is done for all the labours involved in the work ▪ Provide drinking water, water for other uses, and sanitation facilities for employees						

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
	- Prohibit employees from cutting of trees for firewood; contractor should be provided proper facilities including cooking fuel (oil or gas; fire wood not allowed) - Train employees in the storage and handling of materials which can potentially cause soil contamination - Recover used oil and lubricants and reuse or remove from the site - Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; provide a compost pit for biodegradable waste, and non-biodegradable / recyclable waste shall be collected and sold in local market - Remove all wreckage, rubbish, or temporary structures which are no longer required						
Impact on socio economic condition	- Provide sign boards for pedestrians and local commercial establishments to inform nature and duration of construction works and contact numbers for concerns/complaints. - Employ at least 50% of the labour force, or the maximum extent, local persons from the vicinity of the project area, if possible.	- Availability of sign board - Employment record of workers	- Site inspection - Document checking	Project Locations	Throughout the construction stage	Environment Specialist and support of PMSC; PIU	Being complied as per contract provision. Local labours are engaged
Environmental Management Plan	Project manager and all key workers will have undergone	Training documents	Review of documents and site	Project Locations	Throughout the	Environment Specialist and	Work just started. Safety training

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of Monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring	Compliance Status/ Explanation for the package TTDCL/UKT/W04
(EMP) Implementation Training along with COVID 19 safety Irreversible impact to the environment, workers, and community, Impact due to effect of COVID 19	training on EMP implementation including spoils/waste management, standard operating procedures (SOP) for construction works; occupational health and safety (OHS) including COVID-19(SOP), core labor laws, applicable environmental laws, etc.	SOP for maintaining safety - OHS	inspections		construction stage	support of PMSC; PIU	conducted at site
Post-construction activities Unsanitary and unhygienic conditions due to debris, septic tank and other hazardous chemicals as well as C&D wastes	- Site clean-up activities to be carried out which are necessary after construction activities. - Restore temporary work areas, remove all tools and equipment, barricades, surplus material, debris and waste material used for the construction. - If not utilized for reuse purpose, dispose in designated sites. - Proper documentation is to be maintained for the restoration of work site.	- Stockpile Management - Spoil Management - Restoration of work sites	Review of documents and site inspections	Project Locations	Construction and after construction	Environment Specialist and support of PMSC; PIU	To be complied as per EMP Land preparation work just started

D. Site Specific Issues and Present Compliance Status

35. Upto September 2024 work just started for 4 nos. of packages, progress less than 1%. Site specific EMP have been prepared and monitoring commenced. Preliminary activity and documentation continued, like, placement of project display board, emergency contact no. board, safety signage etc. Worker's camp developed for both the tourism sector packages with all facilities. For urban sector packages construction worker's camp under process at OHSR and WTP locations. Present site-specific issues & compliance status discussed in Tables above. Pending necessary compliance status will be reflected in the next SEMR

36. **Appendix 1** shows some site photographs, showing the activities.

37. Based on preliminary activities, findings and environmental monitoring carried out from March to September 2024, it may be concluded that the subprojects have been implemented in compliance of the required environmental safeguards. Overall compliance level for just started projects is shown in **Table 12** below. Compliance level is more or less satisfactory.

Table 12: Overall Compliance with Environmental Management Plan

No.	Sub-project Name	EMP Part of Contract Documents (Y/N)	EMP Being Implemented (Y/N)	Status of Implementation (Excellent/Satisfactory / Partially Satisfactory, Below Satisfactory)	Action Proposed and Additional Measures Required
Urban Sector					
1	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works for Cluster IA Towns (Khowai, Mohanpur and Ranirbazar) of Tripura (TUDA/WS-01/P-01)	Y	Y	Satisfactory	Timely removal of muck from tube well construction site and discharge of waste water on nearby nallah after settling in the pit
2	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement Works in Cluster IIA Towns (Udaipur, Amarpur, Bishramganj, Melaghar, and Belonia) of Tripura (TUDA/WS-02/P-02)	Y	Y	Satisfactory	Timely removal of muck from tube well construction site and discharge of waste water on nearby <i>nallah</i> after settling in the pit
3	Design, Build, and Operate Contract for Comprehensive Water Supply Improvement	Y	N/A	-	Preliminary activity continued

No.	Sub-project Name	EMP Part of Contract Documents (Y/N)	EMP Being Implemented (Y/N)	Status of Implementation (Excellent/Satisfactory / Partially Satisfactory, Below Satisfactory)	Action Proposed and Additional Measures Required
	Works in Cluster IIIA Towns (Dharmanagar, Kailashahar, Kumarghat and Ambassa) of Tripura (TUDA/WS-03/P-03)				
Tourism sector					
4	Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)	Y	Y	Satisfactory	Storage of construction materials within demarcated area and under cover. Spreading of materials should be avoided.
5	Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDC L/UKT/W04)	Y	Y	Satisfactory	- Preliminary activity continued - Complete use of PPEs during development of land (work just started)

E. Grievance Redressal Mechanism

38. A common grievance redress mechanism (GRM) is placed to receive, evaluate, and facilitate the resolution of social, environmental or any other project related grievances. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. The public awareness campaign will generate awareness of the project and its grievance redress procedures. The campaign will ensure that the poor, vulnerable, and others know about the GRM.

39. The GRM will provide 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 facilitate and address grievances at each stage. ULB-wide public awareness campaigns will ensure that awareness of grievance redress procedures is generated through the campaign. The project coordinator (urban and tourism), supported by independent consultants (social and environment), will be responsible for timely grievance redress on environmental and social safeguards issues.

40. Besides the project's grievance redress mechanism, the state also has a centralized public grievance redress monitoring system (CPGRMS) where the general public can file grievances through a dedicated web portal (grievance.tripura.gov.in). The general administrative (administrative reforms) department is the nodal agency, and an officer of the rank of joint secretary is responsible for its functioning. Each department of the state has nominated officers to receive the grievances. TUDA and DOT have nominated officers of the rank of Deputy Director as nodal officers, whose names and contact details are provided on its website. The affected persons can also lodge their complaints through this online portal.

41. **Information to the stakeholders about the GRM:** The stakeholders, including affected persons, will be informed about the GRM under the project and of the state through public consultations, disclosures, and distribution of public information booklets (PIB). In the case of illiterate DPs, the information will be provided verbally during meetings with them.

42. **Who can complain:** A complaint can be registered by stakeholders directly or indirectly affected by the project. A representative can register a complaint on behalf of the affected person or group, provided that the affected person or group identifies the representative and submits evidence of the authority to act on their behalf.

43. **What the Grievance/Complain should contain:** Any comments, complaints, queries and suggestions 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 the complainant's name, date, address/contact details, location of the problem area, and the problem. A sample grievance registration form is provided in **Appendix 13**.

44. **Where and How to file a Complaint:** The complaint can be filed both online and offline. The people can submit their complaints at the contractor's site office or at PIU/PMU office. In addition, they can also have grievances/suggestions/queries submitted through phone or e-mails or the state grievance portal.

45. **Grievance/Problem Redress through Participatory Process:** The PMU and PIUs must make efforts to resolve the problems and conflicts amicably through a participatory process with the community and the ULBs. In case of immediate and urgent grievances in the complainant's perception, the contractor and supervision personnel from the PIU will provide the most easily accessible or first level of contact to resolve grievances quickly. Contact phone numbers and names of the concerned staff and contractors will be posted and displayed at all construction sites.

46. **Grievance Redressal Committee:** The GOT establish the grievance redressal committees at the site, PIU and PMU levels to provide a mechanism to mediate conflict and disputes concerning compensation payments and cut down on lengthy litigation. The following will be the composition of the GRCs.

- **Site Level GRC (1st level):** The site-level GRC will comprise a Junior Engineer. PIU, Assistant safeguard officer (in-charge) in PIU, a field engineer/ construction supervisor of PMSC, site Engineer of the contractor and a representative from the affected community (as and when required). The effort will be made to resolve issues on-site, in consultation with each other and within five days of receipt of a complaint/grievance.

- **PIU Level GRC (2nd level):** All grievances that cannot be redressed within five days at the field level will be brought to the notice of the PIU-level GRC established in each PIU. The PIU-level within two days of receipt of the complaint to determine the merit of each grievance brought to the committee. GRC at the PIU level will be headed by Project Manager (executive/ assistant engineer)- focal for safeguards, Junior engineer of PIU, and also include the construction management expert of PMSC, the Project Manager of the concerned contractor as members. The PIU-level GRC will also co-opt the representative of line departments (PWD, ULB) and a representative from the affected community, as and when required, including indigenous peoples' communities or CSO working with indigenous peoples, as and when required.¹⁸
- **PMU / State Level GRC (3rd level):** In case the grievances are not addressed at the PIU level within 10 days of receipt, the same shall be brought to the notice of the PMU-level GRC. The PMU-level GRC will comprise of Project Director as chairman, a Co-Project Director as co-chairman, Additional project Director (Urban & Tourism) as a member, Project Coordinator (Urban and Tourism) as member secretary, environment safeguard officer of PMU and social, gender officer of PMU, women representatives from the line departments (ULB, PWD, Environment and Forests) and representative of affected community (including indigenous people community).¹⁹ The committee can co-opt any other member required for the resolution of the grievances. The GRC at the PMU level will resolve the grievance within 15 days of receiving the complaint.

47. The complainant will be informed in writing about the resolution of their complaint or the decision of the grievance redress committees. The complainants are free to approach the court of law at any time of their own will 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.

48. Figure below shows Grievance Redressal Mechanism for the project.

¹⁸ In case of any components with impact on indigenous people, GRC will have representative from affected indigenous people community or NGO working with indigenous people groups.

¹⁹ In case of any components with impact on indigenous people GRC will have representative from affected indigenous people community, including at least one female indigenous person or NGO working with indigenous people groups.

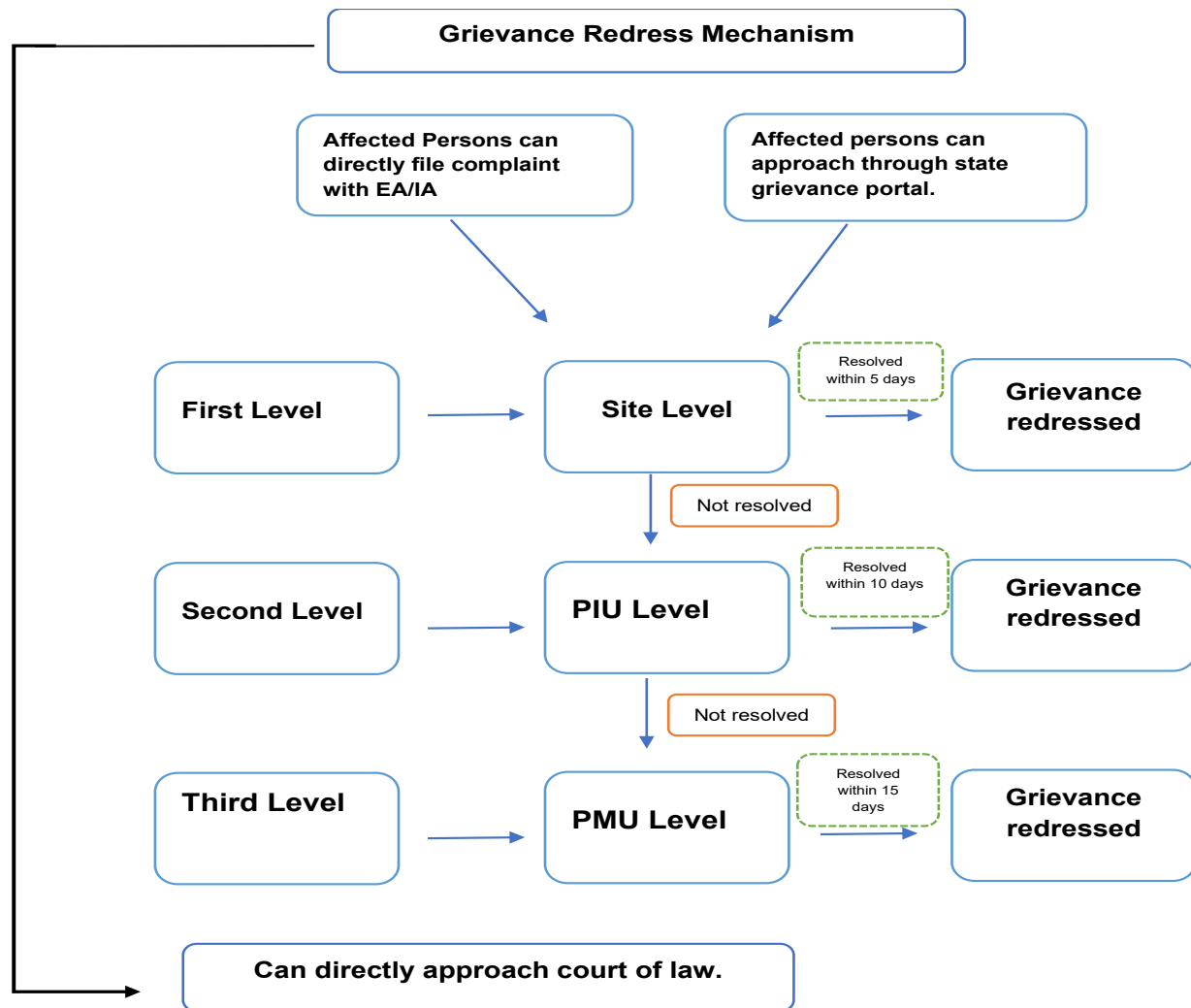


Figure 10: Grievance Redressal Mechanism (GRM)

49. **Documentation.** PMU, with the support of PIUs, will be responsible for the timely registration of grievances, related disclosure, and communication with the aggrieved party. PMU will also ensure that all the details from submission to resolution are well recorded and documented.

50. **Record-keeping.** PIUs will keep records of grievances received, including contact details of the complainant, the date the complaint was received, the nature of the grievance, agreed corrective actions and the date these were affected and the final outcome. The number of grievances recorded and resolved and the outcomes will be displayed/disclosed in the PMU and PIUs and reported in monitoring reports submitted to ADB on a semi-annual basis.

51. **Periodic review and documentation of lessons learned.** The Project Coordinator, PMU, will periodically review the functioning of the GRM in each town and record information on the effectiveness of the mechanism, especially on the project's ability to prevent and address grievances.

52. **Costs.** All costs related to the resolution of grievances (meetings, consultations, communication, and reporting/ information dissemination as well as costs incurred by affected persons to attend GRC meetings, if any) will be borne by PMU.

53. GRM- GRC notification, showing the responsibility is attached in **Appendix 13**. GRC committee members name under selection, since PIU formation is under process. After finalization of members name, GRM – GRC board will be placed at fixed work site. Registers open at site and grievance/ suggestion box arrange at fixed location of tourism package. Sample photo enclosed in **Appendix 1**.

54. Work just started, there is no as such environment related grievances for the packages under implementation.

F. Training, Workshop, Public consultation, and Focus group discussion

55. As per approved IEEs, consultations and disclosure are the continuous process throughout project implementation involving public consultations and focus group discussions. Informal consultations were carried out with local people, pedestrian at tube well construction site (**Appendix 14**). Major work is not yet started. Field level public consultation will be carried out by the contractor on regular basis.

56. The indicative schedule for consultations and disclosure is presented in **Table 13**.

Table 13: Indicative Schedule for Consultations

Type of Consultation/ Disclosure	Target Date	Location	Target Participants	Responsible Person and Source of Funds
Local level consultation	Weekly – to be started	At construction all locations	General public, shopkeepers, pedestrian population	Construction supervisor, Environment & safety officer of contractor Project budget – continuous process
Consultation – safety issues, implementation of EMP	During October 2024 to March 2025 and continued	At project office and site office	Supervisor Engineer, PIU Engineer, all safety and environment staff of contractors	Construction Manager, Environment specialist of PMSC

57. There are series of informal discussions by the engineers, safeguard staff of PMSC with PIU mainly on understanding current situation and optimum design to be adopted in order to attain the safeguard objectives.

58. Environment safeguard orientation for contractor has been arranged from PMU- PMSC. **Appendix 11** shows such training document/ MOM. Review of safeguard application has been conducted on monthly basis for understanding gaps and further requirement for compliance as per loan condition.

59. Training has been conducted by contractor on environment, Health and safety issues, including awareness programme for HIV/ AIDS, First Aid for All training documents and records are available with contractors and sample is attached in **Appendix 12**.

V. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

60. 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 Environment Management Plan (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 quality
- Compliance to EMP
- Compliance to local/state/national environmental regulations

61. Field level monitoring comprises monitoring of environmental parameters like air quality, noise level and water quality. These are monitored for understanding base line conditions at project locations and during construction monitoring for understanding level of impact on environment (in respect to those parameters) from project activity during implementation of the project. Monitoring is conducted as per monitoring plan of approved IEE.

62. Field level checking of EMP application also carried out during pre-construction, construction phases for understanding degree of impacts and mitigation measures. Corrective action plan and target date for effective implementation of mitigation measures planned accordingly. Site Environment Management Plan is the base document for implementation of EMP and application of corrective measures. Field level monitoring is just started, which is continuous process and reported through monthly checklist.

63. Monitoring of applicability of local/state/national environmental regulations in respect to project activity and locations is also required for smooth progress of the project. For that site verification and desk review is essential. Starting from pre-construction to construction – operation phases screening of work areas, work components under the national, state and local statutory rules and regulations is necessary.

VI. MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS

A. Brief discussion on the basis for monitoring

64. In addition to desk reviews and site inspections, monitoring of selected environmental parameters has been conducted during the reporting period. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. Monitoring of ambient air quality, noise level, and water quality has been conducted to establish baseline of environmental qualities in the project area

I. Urban sector packages

65. In accordance with the IEE & SEMP, the contractors are required to undertake environmental monitoring as per below table.

Table 14A: Environmental Monitoring Requirement – Cluster IA, IIA and IIIA water supply packages

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
Package- TUDA/WS-01/P-01Cluster IA water supply			
Ambient air quality	Khowai 3 locations, (OHSR and pipe line) critical areas Mohanpur 3 locations, (OHSR and pipe line) critical areas Ranirbazar 3 locations, (OHSR and pipe line) critical areas	PM ₁₀ , PM _{2.5} NO ₂ , SO ₂ , CO	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2-years period considered)
Ambient noise level	Khowai 3 locations, (OHSR and pipe line) critical areas Mohanpur 3 locations, (OHSR and pipe line) critical areas Ranirbazar 3 locations, (OHSR and pipe line) critical areas	Day time and nighttime noise levels	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2-years period considered)
Surface water quality	One no. for each town if required (suspected water body contamination)	pH, TDS, Oil and grease, Cl, F, NO ₃ , TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	(i) Once before start of construction (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2-years period considered)
Package- TUDA/WS-02/P-02Cluster IIA water supply			
Ambient air quality	Udaipur 3 locations, (WTP, OHSR and pipe line) critical areas (ASI monuments) Amarpur 2 locations along pipeline (covering sensitive area) Bishramganj	PM ₁₀ , PM _{2.5} NO ₂ , SO ₂ , CO	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2.5-years period considered)

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
	3 locations, (OHSR and pipe line) Melaghar 3 locations, (OHSR- and pipe line), one point close to Rudrasagar lake / Raj Ghat Belonia 3 locations, (OHSR, DTW and pipe line)		
Ambient noise level	Udaipur 3 locations, (WTP, OHSR and pipe line) critical areas) (ASI monuments) Amarpur 2 locations along pipeline (covering sensitive area) Bishramganj 3 locations, (OHSR and pipe line) Melaghar 3 locations, (OHSR- and pipe line) one point close to Rudrasagar lake / Raj Ghat Belonia 3 locations, (OHSR, DTW and pipe line)	Day time and nighttime noise levels	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon, and winter) during construction (2.5-years period considered)
Surface water quality	Udaipur One location (River intake point) 1 – if required (suspected river contamination) Melaghar, Amarpur, Bishramganj and Belonia 1 – if required (suspected surface water river contamination)	pH, TDS, Oil and grease, Cl, F, NO ₃ , TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	(i) Once before start of construction (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2.5-years period considered)
Package- TUDA/WS-03/P-03- Cluster IIIA water supply			
Ambient air quality	Kailashahar 4 locations, (WTP- 1, OHSRs- 2, pipe line-1) Kumarghat 4 locations, (WTP- 1, OHSR- 1, pipe line-2) Dharamanagar 4 locations, (WTP- 1, OHSRs- 2, pipeline-1) Ambassa 4 locations, (OHSR-1 and DTW – 1, pipe line-2)	PM ₁₀ , PM _{2.5} NO ₂ , SO ₂ , CO	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2.5-years period considered)
Ambient noise level	Kailashahar 4 locations, (WTP- 1, OHSRs- 2, pipe line-1) Kumarghat 4 locations, (WTP- 1, OHSR- 1, pipe line-2) Dharamanagar	Day time and nighttime noise levels	(i) Once before start of construction. (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2.5-years period considered)

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
	4 locations, (WTP- 1, OHSRs- 2, pipeline-1) Ambassa 4 locations, (OHSR-1 and DTW – 1, pipe line-2)		
Surface water quality	Kailashahar, Kumarghat, and Dharamanagar One location (River intake point) 1 – if required (suspected river contamination) Ambassa 1 – if required (suspected river contamination)	pH, TDS, Oil and grease, Cl, F, NO ₃ , TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	(i) Once before start of construction (ii) Yearly 3 times (for seasons: pre-monsoon, post-monsoon and winter) during construction (2.5-years period considered)

II. Tourism sector packages

66. In accordance with the IEE & SEMP, the contractors are required to undertake environmental monitoring as per below table.

Table 14B: Environmental Monitoring Requirement – Chabimura tourism package

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
Ambient air quality	Near project locations (Chabimura, Fatik Sagar and Amarsagar)	PM ₁₀ , PM _{2.5} NO ₂ , SO ₂ , CO	Thrice in a year (except monsoon) One pre construction and two years of Construction phase
Ambient noise level	Near project locations (Chabimura, Fatik Sagar and Amarsagar)	Leq dB (A) (Day and Night) Average and Peak values	Thrice in a year (except monsoon) One pre construction and two years of Construction phase
Surface water quality	Ground Water near Cahbimura, Fatiksagar and Amarsagar project locations Surface water sample-nearby project location Surface water samples from Gomti River and both the lakes Fatik sagar and Amarsagar	Ground water (GW) parameter as per IS: 10500 (2012) and surface water (SW) parameters as per CPCB guidelines	GW - Thrice in a year (except monsoon) One pre construction and two years of Construction phase SW-Thrice in a year (except monsoon) One pre construction and two years of Construction phase

Table 14C: Environmental Monitoring Requirement – Sonamukhi tourism package

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
Ambient air quality	Near project locations (Sonamukhi eco-accommodation area, eco-adventure area and Unakoti lodge)	PM ₁₀ , PM _{2.5} NO ₂ , SO ₂ , CO	Thrice in a year (except monsoon) One pre construction and two years of Construction phase
Ambient noise level	Near project locations (Sonamukhi eco-accommodation area, eco-adventure area)	Leq dB (A) (Day and Night) Average and Peak values	Thrice in a year (except monsoon) One pre construction and two years of Construction phase

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency
	and Unakoti lodge)		
Water Quality (Surface and Ground water)	Ground Water at Sonamukhi and Kailashahar Surface water sample-nearby project location Surface water samples from Nageshwari Chhara and the Kathal Tank	Ground water parameter as per IS: 10500 (2012) and surface water parameters as per CPCB guidelines	GW - Thrice in a year (except monsoon) One pre construction and two years of Construction phase SW-Thrice in a year (except monsoon) One pre construction and two years of Construction phase

B. Type and location of Environmental Parameters Monitored

67. As detailed in above tables, for all the projects, air and noise monitoring conducted for yearly 3 times except monsoon while surface and ground water quality monitoring also to be conducted, yearly 3 times (except monsoon).

68. **Monitoring Locations of Urban sector Packages.** Monitoring locations are shown with Co-ordinate in Table below and in Figures followed.

Table 15: Ambient Air quality, Noise level and surface water quality Monitoring Locations: Urban sector packages – Baseline/ Pre-construction September 2024

Town	Monitoring Location	Co-ordinates
Package- TUDA/WS-01/P-01 Cluster IA water supply		
Monitoring Phase: Pre-construction (Baseline)-September-24		
Ranirbazar	350 KL OHSR near Anganwadi ward no. 13	23°49'29.6"N 91°22'50.7"E
	800 KL OHSR at Krishna talli, ward no. 11	23°49'55.8"N 91°22'34.5"E
Mohanpur	850 KL OHSR at old MMC ward no.15	23°58'09.2"N 91°22'04.5"E
	750 KL OHSR at Tulabagan	23°56'39.4"N 91°22'03.4"E
Khowai	400 KL OHSR near WTP Campus ward no. 12	24°04'01.9"N 91°36'57.5"E
Package - TUDA/WS-02/P-02 Cluster IIA water supply		
Monitoring Phase: Pre-construction (Baseline)-September-24		
Belonia	400 KL OHSR near Abul Kalam Community Hall*	23°15'16"N 91°27'38"E
	300 KL OHSR near Satmura SB School*	23°14'51.0"N 91°28'36.1"E
Udaipur	12 MLD Intake Well at Baraduar (Surface – river water) **	23°31'59.6"N 91°30'42.3"E
	7.6 MLD Water Treatment Plant at Baraduar	23°31'45.7"N 91°30'56.6"E
	Over Head reservoir (900 KL) at Netaji Nagar	23°32'29.8"N 91°29'11.4"E
	Over Head reservoir (750 KL) near Rajasri Town Hall*	23°31'40.5"N 91°29'42.4"E
Bishramganj	Over Head reservoir (200 KL) at Purba Barjola	23°37'31.6"N 91°20'33.5"E
	Over Head reservoir (250 KL) at Chesrimai (RSV Anganeadi)	23°37'23.3"N 91°19'08.2"E
	Over Head reservoir (300 KL) at Moter Stand old	23°36'27.2"N 91°20'45.3"E

Town	Monitoring Location	Co-ordinates
	DM Office	
Melaghar	Over Head reservoir (450 KL) at Radhamadhabpur JB School	23.51031216N 91.33307256E

All monitoring locations – for both air quality and noise level monitoring. Surface water monitoring site mentioned in the bracket.

* Changed locations

** Monitored by State water testing laboratory, Govt. of Tripura



Figure 11A: Air and Noise monitoring sites at Ranirbazar (Cluster IA town)

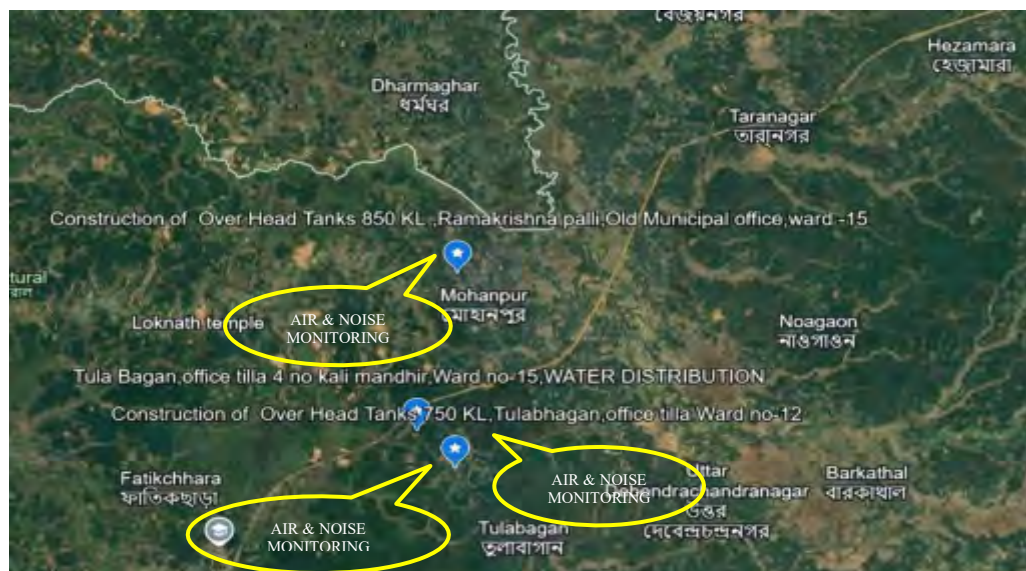


Figure 11B: Air and Noise monitoring sites at Mohanpur (Cluster IA town)

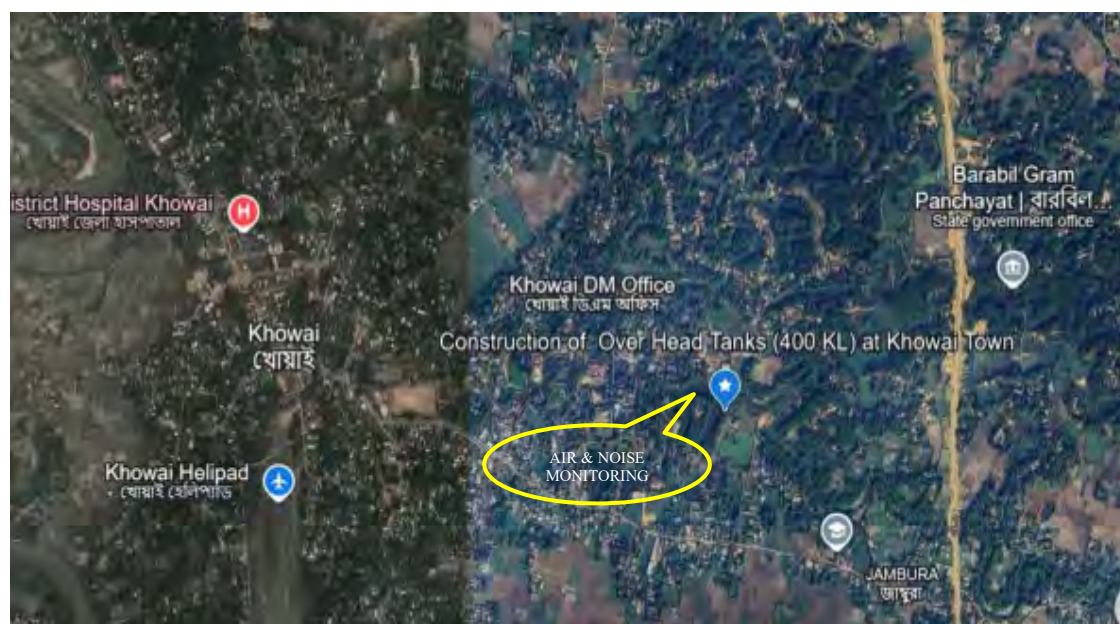


Figure 11C: Air and Noise monitoring sites at Khowai (Cluster IA town)

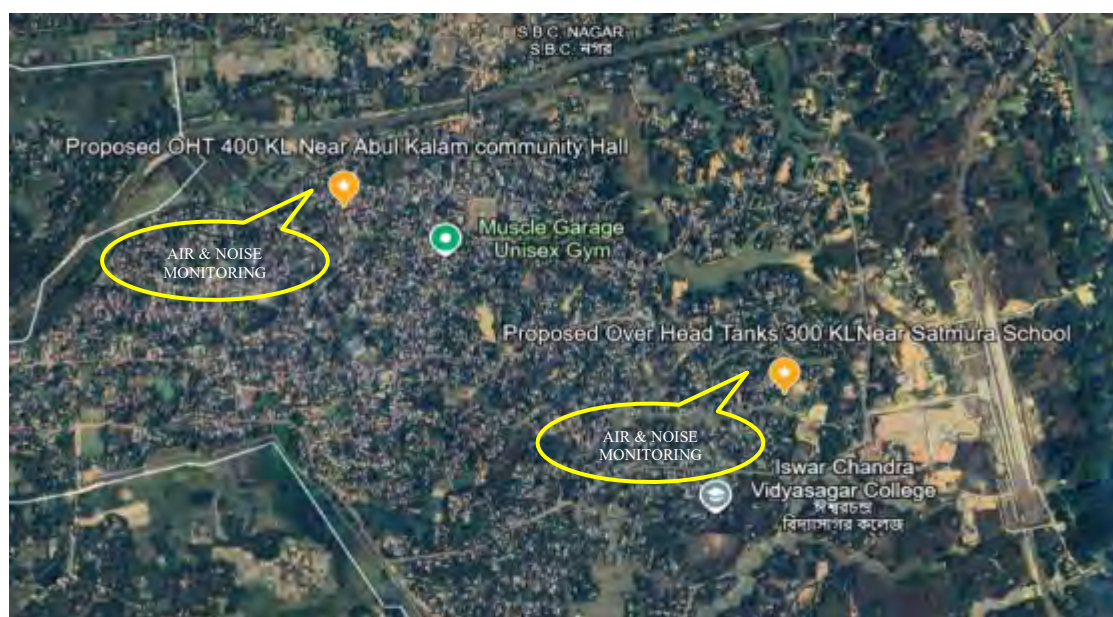


Figure 11D: Air and Noise monitoring sites at Belonia (Cluster IIA town)

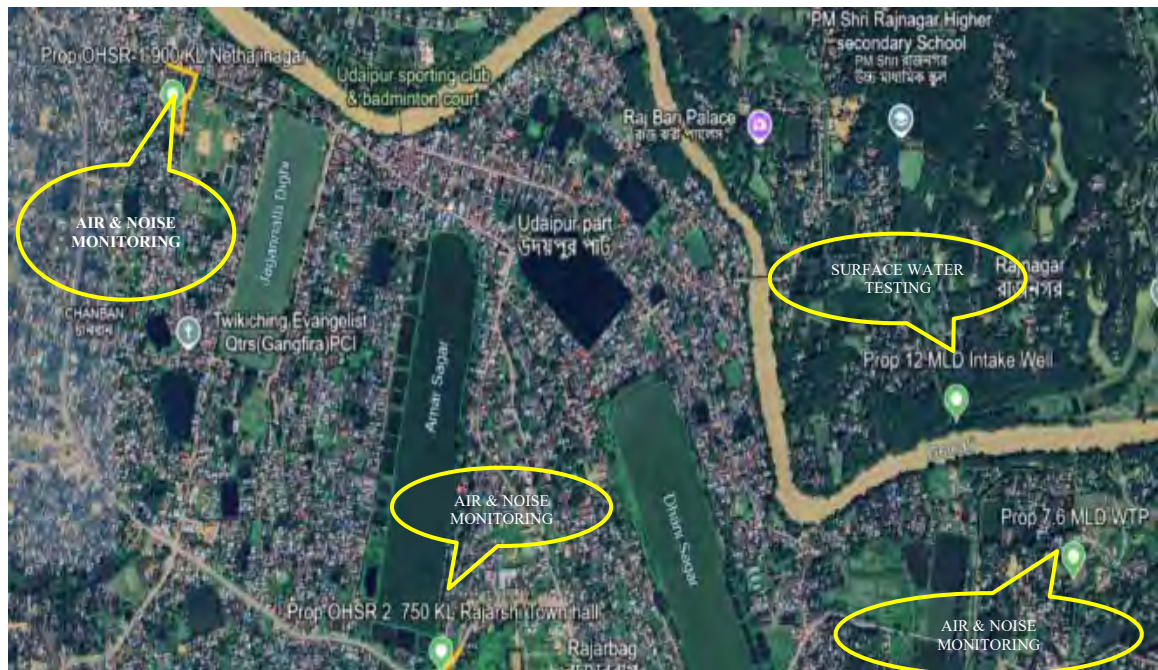


Figure 11E: Air, Noise and surface water monitoring sites at Udaipur (Cluster IIA town)

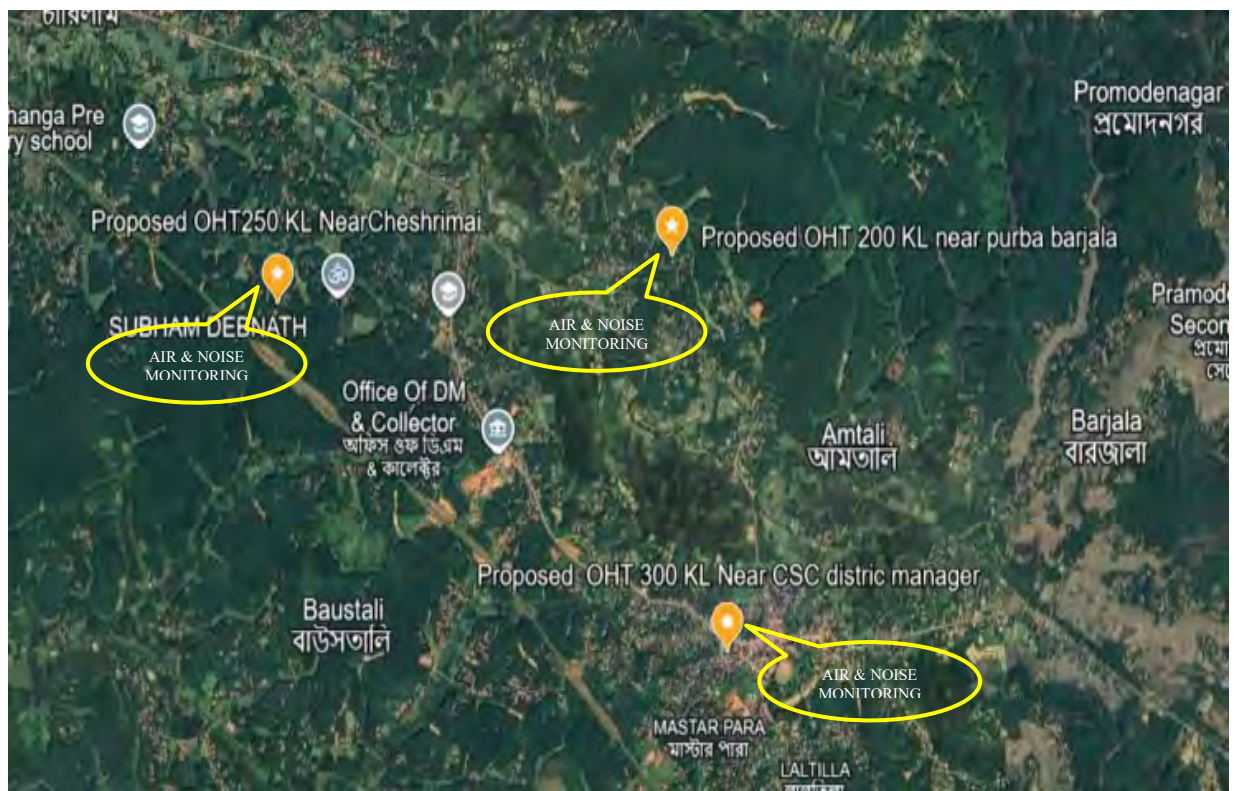


Figure 11F: Air and Noise monitoring sites at Bishramganj (Cluster IIA town)



Figure 11G: Air and Noise monitoring sites at Melaghar (Cluster IIA town)

69. **Monitoring Locations of Tourism sector Packages.** Monitoring locations are shown with Co-ordinate in Table below and in Figures followed.

**Table 16: Ambient Air quality, Noise level and surface & ground water quality
Monitoring Locations: Tourism sector packages – Baseline/ Pre-construction
April 2024**

Sr. No.	Monitoring Location	Co-ordinates
Package Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)		
Monitoring Phase: Pre-construction (Baseline)-April-24		
1	Chabimura (Near Project Office) (Air quality)	23.553991 N,91.61464 E
2	Amarsagar- near project site (Air quality)	23.526496 N,91.655626 E
3	Fatiksagar- near project site (Air quality)	23.516322 N,91.653505 E
4	Chabimura (Near Project Office) (Noise level)	23.553951 N,91.614694 E
5	Amarsagar- near project site (Noise level)	23.526172 N,91.655413 E
6	Fatiksagar- near project site (Noise level)	23.516565 N,91.653159 E
7	Chabimura (Surface water)	23.553167 N,91.613139 E
8	Amarsagar (Surface water)	23.526684N,91.655953E
9	Fatiksagar (Surface water)	23.520583N,91.653194E
10	Chabimura (Ground water)	23.551451N,91.628906 E
11	Amarsagar (Ground water)	23.526642N,91.655769E
12	Fatiksagar (Ground water)	23.516443N,91.653422E
Package - Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDCL/UKT/W04)		
Monitoring Phase: Pre-construction (Baseline)-April-24		

Sr. No.	Monitoring Location	Co-ordinates
Sonamukhi area		
1	Sonamukhi tea garden starting point (Air quality)	24.274603°N 92.035502°E
2	Sonamukhi tea garden end point (Air quality)	24.274709°N 92.031595°E
3	Sonamukhi tea garden end point (Noise level)	24.275037°N 92.032565°E
4	Sonamukhi pond (Surface water)	24.272299°N 92.036632°E
5	Sonamukhi bore well (Ground water)	24.272739°N 92.036501°E
Unakoti Lodge area		
6	Unakoti tourist lodge (Air quality)	24.330154°N 91.998872°E
7	Unakoti tourist lodge (Noise level)	24.330288°N 91.999064°E
8	Kathal dighi pond – beside Unakoti tourist lodge (Surface water)	24.328918°N 91.999452°E
9	Ground water near Unakoti tourist lodge (Ground water)	24.331288°N 91.999136°E

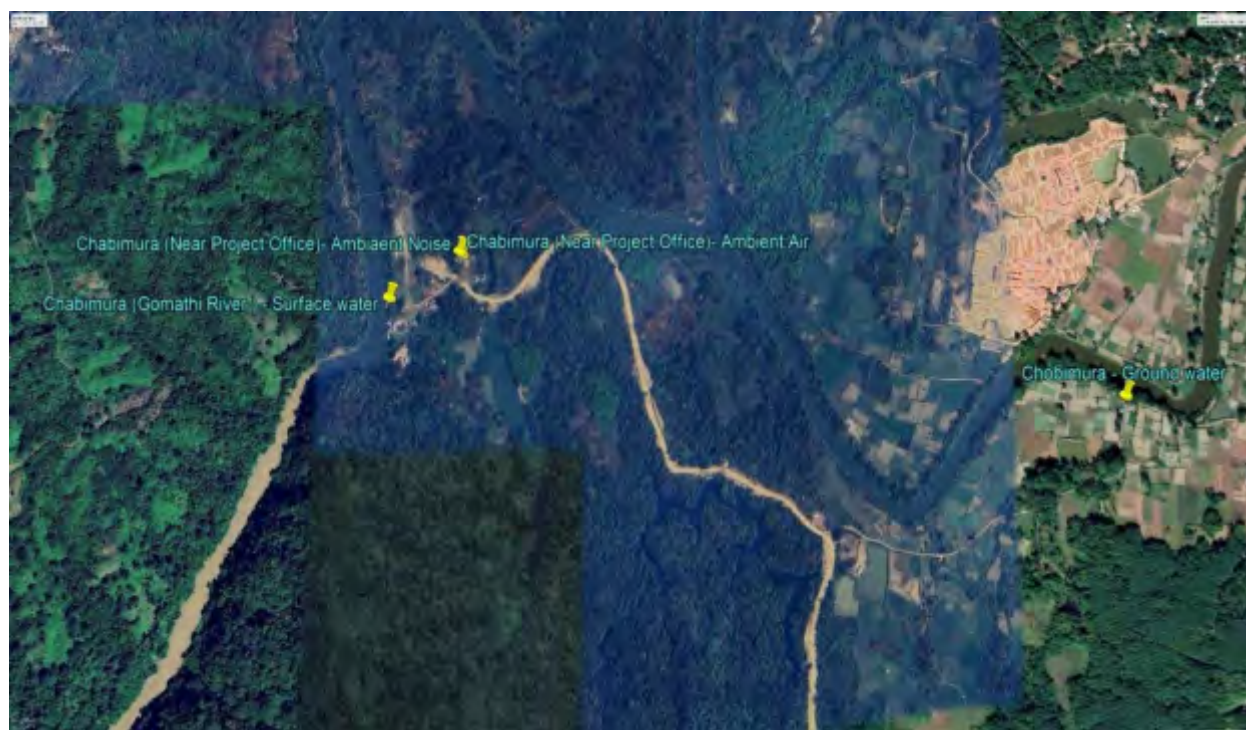


Figure 12A: Air, noise and water quality monitoring sites at Chabimura



Figure 12B: Air, noise and water quality monitoring sites at Amarsagar area



Figure 12C: Air, noise, and water quality monitoring sites at Fatiksagar area

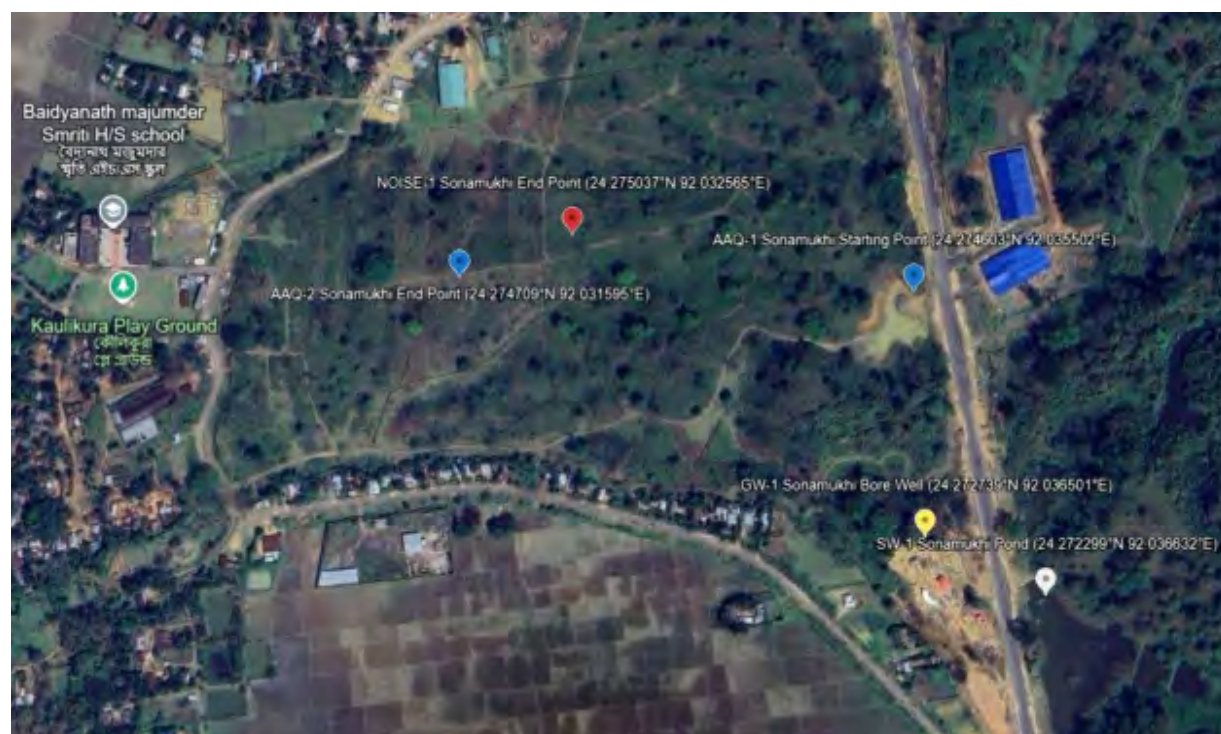


Figure 13A: Air, noise, surface and ground water sampling locations in and around Sonamukhi project area



Figure 13B: Air, noise, surface and ground water sampling locations in and around Unakoti Lodge project area

C Method of Monitoring and Equipment used

70. **Ambient Air Quality Monitoring Equipment and Methodology.** Respirable Dust Samplers and Fine Dust Samplers (Model no.-APM-860/APM-154) have been used to collect samples for PM₁₀ and PM_{2.5} in ambient air at a flow rate of 1.2 m³/min. The ambient air was sucked through the cyclone and filter paper by a blower. Samples of gases were drawn at a flow rate of 0.5 liters per minute and were analysed in the laboratory. Ambient air quality monitoring methodology is given in table below.

Table 17: Methodology for the ambient air monitoring

Sl. No	Parameters	Measurement Method	As per
1.	PM ₁₀	Gravimetric	IS:5182 Part-23, RA-2017
2.	PM _{2.5}	Gravimetric	USEPA CFR-40, Part-50
3.	SO ₂	Colorimetric (EPA modified West & Gaeke Method)	IS:5182 Part-2, 2001, RA-2017
4.	NO _x	Colorimetric (Arsenite modified Jacobs & Hochheiser Method)	IS:5182 Part-6, 2006, RA-2017
5.	CO	Non-Dispersive Infra-Red (NDIR) Spectroscopy Technique	IS:5182 Part-10, 1999, RA-2014

71. **Methodology of Surface and Ground Water Monitoring.** In order to establish baseline/ during construction conditions, grab samples were collected from water source and were analysed for various parameters as per the procedures laid down in the BIS. Samples were collected as per IS- 2488 (Part I-V). Surface water samples were analysed as per surface water quality criteria by Central Pollution Control Board (CPCB) for class B and C. Ground water samples were also analysed as per method provided by CPCB. Wet chemical, Atomic Absorption Spectrophotometer and UV/VIS Spectrophotometer were used for analysis of water samples according to the necessity.

72. **Methodology of Noise Level Monitoring.** Lutron Data logger Noise Meter (Model SL – 4023 SD) was used to monitor the noise levels. Noise level was monitored continuously for 24 hours with one-hour interval. Noise level was measured in the form of Leq dB(A), - Day and Night

D. Monitoring results and analysis of results

73. Monitoring results and analysis of results are presented below for sub projects under urban and tourism sectors

I. Environmental Monitoring Results for Urban Sector projects

74. **Table 18** shows monitoring results for Urban sector project

Table 18: Ambient Air Quality Monitoring Results- Urban sector packages – Baseline/ Pre-construction September 2024

Town	Date of Testing	Site Location	Parameters				
			PM ₁₀ (µg/m³)	PM _{2.5} (µg/m³)	CO (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)
Contract Package – Cluster IA water supply							
Monitoring Phase: Pre -Construction-September 2024							
Ranirbazar	24.09.2024	350 KL OHSR near Anganwadi ward no. 13	53.0	27.0	709.0	6.3	30.2

Town	Date of Testing	Site Location	Parameters				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
		800 KL OHSR at Krishna talli, ward no. 11	39.0	17.0	583.0	5.2	23.2
Mohanpur	23.09.2024	850 KL OHSR at old MMC ward no.15	46.0	21.0	606.0	5.5	25.4
		750 KL OHSR at Tulabagan	35.0	24.0	561.0	5.0	20.6
Khowai	24.09.2024	400 KL OHSR near WTP Campus ward no. 12	40.0	19.0	652.0	5.7	24.9
Contract Package – Cluster IIA water supply							
Monitoring Phase: Pre -Construction-September 2024							
Belonia	27.09.2024	400 KL OHSR near Abul Kalam Community Hall*	41.0	20.0	595.0	5.1	24.5
		300 KL OHSR near Satmura SB School*	48.0	25.0	629.0	5.4	23.6
Udaipur	25.09.2024	7.6 MLD Water Treatment Plant at Baraduar	21.0	13.0	446.0	4.3	22.7
	25.09.2024	Over Head reservoir (900 KL) at Netaji Nagar	28.0	16.0	492.0	4.6	24.2
	28.09.2024	Over Head reservoir (750 KL) near Rajasri Town Hall*	57.0	30.0	744.0	6.6	31.7
Bishramganj	29.09.2024	Over Head reservoir (200 KL) at Purba Barjola	62.0	35.0	732.0	6.8	29.3
	26.09.2024	Over Head reservoir (250 KL) at Chesrimai (RSV Anganeadi)	24.0	15.0	526.0	4.4	23.8
	26.09.2024	Over Head reservoir (300 KL) at Moter Stand old DM Office	19.0	11.0	423.0	4.1	22.2
Melaghar	26.09.2024	Over Head reservoir (450 KL) at Radhamadhabpur JB School	32.0	19.0	595.0	5.2	25.6
National Ambient Air Quality Standard (NAAQS)			100	60	2000	80	80
WHO standard - 2021			45	15	4000	40	25

Note: National level Central Pollution Control Board's (Govt. of India) guideline/ protocol used for sampling, for analysis. INDIAN STANDARD IS 5182 and USEPA CFR 40 (International protocol) used for analysis

75. Baseline air quality monitoring results indicate that PM₁₀ and PM_{2.5} values of cluster IA project sites are within the National Ambient Air Quality standard. Level of PM₁₀ is occasionally above the WHO standard but PM_{2.5} level mostly above the WHO prescribe standard. Maximum PM₁₀ level (53 µg/m³) is noted at Ranirbazar (350 KL OHSR near Anganwadi ward no. 13) site. Level of SO₂, NO₂ and CO are much below the NAAQ standard at all the towns project locations.

76. Baseline air quality monitoring results indicate that PM₁₀ and PM_{2.5} values of cluster IIA project sites are within the National Ambient Air Quality standard. Level of PM₁₀ is occasionally above the WHO standard but PM_{2.5} level mostly above the WHO prescribe standard. Maximum PM₁₀ level (62 µg/m³) is noted at Bishramganj (Over Head reservoir 200 KL at Purba Barjola) site. Level of SO₂, NO₂ and CO are much below the NAAQ standard at all the towns project locations.

**Table 19: Ambient Noise Level Monitoring Results- Urban sector packages – Baseline/
Pre-construction September 2024**

Site No	Date of Testing	Site Location/ Land use	Leq dB(A)	
			Day Time	Night Time
Contract Package – Cluster IA water supply				
Monitoring Phase: Pre- construction-September 2024				
Ranirbazar	24.09.2024	350 KL OHSR near Anganwadi ward no. 13-C	56.9	44.2
		800 KL OHSR at Krishna talli, ward no. 11- C	55.1	42.5
Mohanpur	23.09.2024	850 KL OHSR at old MMC ward no.15- C	53.3	41.0
		750 KL OHSR at Tulabagan- C	54.0	42.4
Khowai	24.09.2024	400 KL OHSR near WTP Campus ward no. 12- A	54.5	44.9
Contract Package: Cluster IIA water supply				
Monitoring Phase: Pre- construction-September 2024				
Belonia	27.09.2024	400 KL OHSR near Abul Kalam Community Hall*- B	58.9	41.8
		300 KL OHSR near Satmura SB School*- C	58.0	43.9
Udaipur	25.09.2024	7.6 MLD Water Treatment Plant at Baraduar- A	55.1	44.3
	25.09.2024	Over Head reservoir (900 KL) at Netaji Nagar -C	54.9	42.8
	28.09.2024	Over Head reservoir (750 KL) near Rajasri Town Hall*- C	53.1	43.9
Bishramganj	29.09.2024	Over Head reservoir (200 KL) at Purba Barjola -C	53.9	42.4
	26.09.2024	Over Head reservoir (250 KL) at Chesrimai (RSV Anganeadi)- C	51..8	43.4
	26.09.2024	Over Head reservoir (300 KL) at Moter Stand old DM Office-B	54.1	44.3
Melaghar	26.09.2024	Over Head reservoir (450 KL) at Radhamadhabpur JB School-C	55.6	42.7
Code/Category		Leq Day Time dB(A) – Standard	Leq Night Time dB(A) – Standard	
A/ Industrial		75	70	
B/ Commercial		65	55	
C/ Residential		55	45	
D/Ecological- Sensitive		50	40	

77. For cluster IA Towns project locations base line day time noise level is more or less within the standard, whereas night time noise level is always within the standard.

78. For cluster IIA Towns project locations base line day time noise level is more or less within the standard, whereas night time noise level always within the standard. At few locations day time noise level is marginally high. Comparatively higher values due to local activity, movement of vehicle nearby the monitoring locations.

79. Water quality have been monitored by State water testing laboratory of Govt. of Tripura at intake site on Gomati River at Udaipur. Monitoring results are shown in **Appendix. 16**. All the parameters are within the prescribed standard.

80. All original test certificates are available with PIU and PMSC office as back-up.

II. Environmental Monitoring Results for Tourism Sector projects

81. **Table 20** shows monitoring results for Tourism sector project

Ambient Air Quality

**Table 20: Ambient Air Quality Monitoring Results- Tourism sector packages –
Baseline/ Pre-construction April – May 2024**

Locations	Date of Testing	Monitoring Locations	Parameters				
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	CO (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
Package Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)							
Monitoring Phase: Pre -Construction-April 2024							
Chabimura	26.04.2024	Chabimura (Near Project Office)	97	51	492	5.8	20.8
Amarsagar - Amarpur	26.04.2024	Amarsagar- near project site	134	63	400	5.1	17.5
Fatiksagar- Amarpur	27.04.2024	Fatiksagar- near project site	93	48	446	4.8	19.1
Package - Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDCL/UKT/W04)							
Monitoring Phase: Pre -Construction-April – May 2024							
Sonamukhi	01.05.2024	Sonamukhi tea garden starting point	87	49	503	5.0	16.9
	30.04.2024	Sonamukhi tea garden end point	169	70	549	4.4	18.5
Unakoti	30.04.2024	Unakoti tourist lodge	84	48	469	5.2	17.2
National Ambient Air Quality Standard (NAAQS)			100	60	2000	80	80
WHO standard - 2021			45	15	4000	40	25

*Interim target 2

Note: National level Central Pollution Control Board's (Govt. of India) guideline/ protocol used for sampling, for analysis. INDIAN STANDARD IS 5182 and USEPA CFR 40 (International protocol) used for analysis

82. Baseline air quality monitoring near the project (TTDCL/CHB/W 01) locations of Chabimura, Fatiksagar and Amarsagar lakes has been carried out through accredited environmental monitoring agency. As per the results recorded, it is observed that the concentration of air quality parameters are within the National Ambient Air Quality Standards for the two locations, Chabimura and Fatiksagar, however at Amarsagar, the particulate matter concentration has increased from the prescribed standard concentration due to some construction activity ongoing near the project site. Both PM₁₀ and PM_{2.5} values are above the WHO standards. However, concentrations of other parameters like SO₂, NO₂ and CO are found to be within the NAAQ permissible limits.

83. Baseline air quality monitoring near the project ((TTDCL/UKT/W04)) locations of Sonamukhi and Unakoti lodge has also been carried out through accredited environmental monitoring agency. As per the results recorded, it is observed that the concentration of air quality parameters is within the National Ambient Air Quality Standards for the two locations, i.e., Sonamukhi starting point and the Unakoti lodge site, however towards end of Sonamukhi site, the particulate matter concentration exceeded that of the prescribed standard concentration due to some construction activity ongoing near the project site. Both PM₁₀ and PM_{2.5} values are above

the WHO standards. However, concentrations of other parameters like SO₂, NO₂ and CO are found to be within the NAAQ permissible limits.

Ambient Noise Level

Table 21: Ambient Noise Level Monitoring Results- Tourism sector packages – Baseline/ Pre-construction April 2024

Site No	Date of Testing	Site Location/ Land use	Leq dB(A)	
			Day Time	Night Time
Package Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)				
Monitoring Phase: Pre- construction-April 2024				
Chabimura	26.04.2024	Chabimura (Near Project Office) - C	50.8	42.6
Amarsagar - Amarpur	26.04.2024	Amarsagar- near project site - C	50.1	41.9
Fatiksagar- Amarpur	27.04.2024	Fatiksagar- near project site - C	52.4	43.0
Package - Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDCL/UKT/W04)				
Monitoring Phase: Pre- construction-April 2024				
Sonamukhi	30.04.2024	Sonamukhi tea garden end point- C	49.5	40.6
Unakoti	30.04.2024	Unakoti tourist lodge- C	51.3	42.6
Code/Category		Leq Day Time dB(A) – Standard	Leq Night Time dB(A) – Standard	
A/ Industrial		75	70	
B/ Commercial		65	55	
C/ Residential		55	45	
D/Ecological- Sensitive		50	40	

84. Baseline Noise level monitoring near the project (TTDCL/CHB/W01) locations of Chabimura, Amarsagar and Fatiksagar locations has been conducted through accredited Environmental Monitoring Agency. All the recorded noise levels are within day time and night time Leq levels of residential zone.

85. Baseline noise level monitoring was carried out for the two sub-project sites, Sonamukhi and Unakoti tourist lodge for the package TTDCL/UKT/W04 during pre-construction phase. The result shows that the recorded noise levels are within day time and night time Leq levels of residential zone.

Surface and Ground water quality

Package - Tourism Destination Development at Chabimura and Upgradation/ Beautification of Visitor Amenities/ Facilities at Fatik Sagar and Amar Sagar (TTDCL/CHB/W 01)

86. The contractor firm has carried out pre-construction sampling and monitoring of the Gomati River water quality at Chabimura location as well as the two water bodies, viz., Amarsagar and Fatiksagar during April-May 2024. The pH value of the project sites varied from 6.52 – 6.81 indicating surface water to be normal in nature. The level of total dissolved solids of the project sites varied from the range of 58 - 510 mg/l. For Gomati River sample, the values for DO and BOD being 5.9 mg/l and less than 2 mg/l respectively as well as the total coliform, being 24 MPN/100 ml suggest the water quality belonging to class of water 'B' under Designated Best Use

Water Quality Criteria. On the other hand, at Fatiksagar lake, the TDS is high, BOD is about 5.6 mg/l, Dissolved oxygen is less than 4 mg/l and Total coliform is more than 50 MPN/100 ml thus, rendering the water quality to be unfit for any of the categories of designated use, not even for propagation of fishes and wildlife. However, the water quality of Amarsagar pond is comparatively better than that of Fatiksagar with BOD less than 2 mg/l, DO more than 5 mg/l and Total coliform is 31 MPN/100 ml, can be categorized under class 'B' used for outdoor bathing purpose. The results of surface water quality monitoring of project locations Chabimura, Fatiksagar and Amarsagar are summarized in **Table 22** below.

Table 22: Surface Water Quality status of Chabimura, Amarsagar and Fatiksagar

Sl. No.	Test parameter	Tolerance limit as per IS: 2296, Class B	Gomati River	Fatiksagar lake	Amarsagar lake
			26.April.2024	27.April.2024	26 April 2024
1	pH	6.5 – 8.5	6.74	6.81	6.52
2	Total Dissolved Solids (TDS) in mg/l	---	70	510	58
3	Biochemical Oxygen Demand (BOD) mg/l	3 (max)	< 2	5.6	< 2
4	Dissolved Oxygen (DO) mg/l	5 (min)	5.9	3.4	5.4
5	Total Coliform Organisms in MPN/100ml	500 (max)	24	58	31

87. Contractor has carried out ground water quality monitoring for the project locations during their pre-construction phase. The ground water sample was collected from a tubewell near Chabimura project site as well as from a tubewell near Amarsagar SDM office and near Fatiksagar. The pH value, total dissolved solid, total hardness and the iron concentration of the groundwater samples are within the tolerance limit prescribed in BIS drinking water specifications. The results of ground water quality monitoring are presented in **Table 23** below.

Table 23: Ground Water Quality in Project Area of Chabimura, Amarsagar and Fatiksagar

Sl. No.	Test parameter	Tolerance limit as per BIS	Tubewell near Chabimura	Tubewell near Amarsagar SDM office	Tubewell near Fatiksagar
			27 April 24		
1	pH	6.5 – 8.5	7.41	6.83	8.15
2	Total Dissolved Solids (TDS) in mg/l	500	162	134	118
3	Total Hardness (CaCO ₃) in mg/l	200	126.7	91	71.7
4	Iron (as Fe), mg/l, Max (Drinking water standard as per IS 10500 : 2012)	0.3	0.18	0.12	0.17

Package - Development of Sonamukhi Eco Accommodation & Adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar (TTDCL/UKT/W04)

88. The contractor firm has carried out pre-construction sampling and monitoring of the surface water qualities of Sonamukhi pond as well as Katal dighi in front of Unakoti lodge during

April 2024. The pH value of the project sites varied from 6.7 – 7.3 indicating surface water to be normal in nature. The levels of dissolved oxygen of the water bodies showed values more than 5 mg/l and that of BOD less than 2 mg/l. Moreover, the total coliform count is also much less than 50 MPN / 100 ml thus, indicating the water bodies belonging to class B of Designated Best Use Water Quality Criteria that can be used for bathing purpose. The results of surface water quality monitoring of the two water bodies are summarized in **Table 24** below.

Table 24: Surface Water Quality status of Sonamukhi pond and Kathal Dighi pond

Sl. No.	Test parameter	Tolerance limit as per IS: 2296, Class B	Sonamukhi pond	Kathal Dighi pond
30 April 2024				
1	pH	6.5 – 8.5	7.31	6.74
2	Total Dissolved Solids (TDS) in mg/l	---	52	68
3	Biochemical Oxygen Demand (BOD) mg/l	3 (max)	< 2	< 2
4	Dissolved Oxygen (DO) mg/l	5 (min)	5.9	5.6
5	Total Coliform Organisms in MPN/100ml	500 (max)	17	21

89. Contractor has carried out ground water quality monitoring for the project locations during their pre-construction phase. The ground water sample was collected from a borewell near Sonamukhi project site as well as from a tubewell near Unakoti tourist lodge. The pH value, total dissolved solid, total hardness and the iron concentration of the groundwater samples are within the tolerance limit prescribed in BIS drinking water specifications. The results of ground water quality monitoring are presented in **Table 25** below.

Table 25: Ground Water Quality in Project Area

Sl. No.	Test parameter	Tolerance limit as per	Borewell near Sonamukhi	Tubewell near Unakoti Tourist lodge
30 April 24				
1	pH	6.5 – 8.5	6.64	7.09
2	Total Dissolved Solids (TDS) in mg/l	500	72	214
3	Total Hardness (CaCO ₃) in mg/l	200	59.4	71.3
4	Iron (as Fe), mg/l, Max (Drinking water standard as per IS 10500 : 2012)	0.3	0.11	0.15

VII SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

90. Status of EMP application discussed in earlier section. It is noted that package work started few days back and progress of work is less than 1 %. In Urban package at tube well construction sites earliest disposal or utilization of muck is required. For Tourism package there is no as such major issue noticed during report period. Only at Chabimura package work site proper material storage will be required. **Table 26**, shows key issues noted during report period and action plans for necessary compliance.

Table 26: Summary of Key issues and compliance requirement

Monitoring aspect	Findings & Key issues	Further Actions/Remedial/Corrective Actions/Measures/Remarks With target completion dates
Availability safeguards personnel (PMU, PIU, Consultants)	Except Individual consultants (IC) at PMU level all safeguard personal in placed For one water supply package, engagement of EHS officer is under process.	Expected to be placed in PMU by December 2024 PMU to set up an interim/a temporary arrangement to ensure and monitor compliance with ADB Environmental Safeguards requirements. Contractor to set up an interim arrangement to ensure implementation of EMP at the work sites while the EHS officer recruitment is under process.
Compliance with statutory requirements (clearance / permissions etc.,)	- For urban packages, TUDA/WS-01/P-01, TUDA/WS-02/P-02 NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor. For package TUDA/WS-03/P-03 application needs to be sent. For withdrawal of ground water for water supply purpose application has been done to CGWA by project authority - For tourism package at Chabimura, TTDCL/CHB/W 01- Applied to water resource department for getting NOC for withdrawal of surface water from Gomati River for construction purpose. For Sonamukhi, TTDCL/UKT/W04- NOC for withdrawal of ground water for construction purpose applied to CGWA by the contractor - For package TUDA/WS-01/P-01 application done to labour dept. for Khowai town for getting labour license. For package TUDA/WS-02/P-02 application done to labour dept. for Bishramganj, Melaghar, Belonia town for getting labour license. Delayed due to Govt. portal problem for the district.	- Follow up is required. Expected to receive permission from CGWA by December 2024/ January 2025 - Follow up is required. Expected to receive labour license by December 2024
Compliance with ADB loan covenants	Status shown in Table 6 NOC from CGWA for construction and supply of water after commissioning	To be complied by January- February 2025 Follow up is continued

Monitoring aspect	Findings & Key issues	Further Actions/Remedial/Corrective Actions/Measures/Remarks With target completion dates
	- Pending Labour license from concerned dept. - Submission of addendum of IEE and updated IEE (after finalization of design) - Continue health check up and training for the workers	
Compliance with preparation, approval, disclosure of draft IEEs	All draft IEE disclosed at ADB and project website	Updated IEE will be finalized and to be disclosed as per ADB's disclosure policy
Compliance with preparation, approval, disclosure of updated/final IEEs	<u>Urban packages</u> For DBO contracts – Cluster IA and Cluster IIA water supply packages – design completed partially. As per construction contractor and technical team of PMSC, major design will be over by January 2025. After receive of final design IEEs for both the packages will be done by January/ February 2025. Design for Cluster IIIA water supply, progress slowly. As per construction contractor and technical team of PMSC, design will be over by February 2025. After receive of final design IEE for the package will be done by March 2025 For Road and Drainage package, in case of change in locations, scope IEE will be updated. Till date no road & drainage packages are awarded Since finalization of design delayed, Addendum – showing change locations details, assessment of additional impacts (if any) for new locations for cluster IA and IIA WS will be submitted by December 2024. <u>Tourism package</u> Some design modification under progress for Chabimura package. After finalization of design IEE will be updated.	Submission of Addendum showing location change by December 2024 Submission of updated IEE by January/ February 2024
Contractor compliance with pre-construction requirements	- Collection of labour license - Construction water withdrawal permission Other pre-construction requirement like, WC policy, All risk policy, engagement of EHS officer, pre-	Instructed to contractors for collection of the same by December 2024/ January 2025

Monitoring aspect	Findings & Key issues	Further Actions/Remedial/Corrective Actions/Measures/Remarks With target completion dates
	construction base line monitoring, health checkup, tie up with hospital – Done -Preparation/Updating of the SEMP to include emergency preparedness and disaster response plan for PMU's immediate approval	
EMP implementation, monitoring, reporting	Work just started; overall progress is less than 1%. EMP implementation, reporting and compliance – continued Partially complied - Use of PPEs - Disposal of muck - Construction material storage - Arrangement of camp with proper sleeping accommodation and kitchen arrangement that meets IFC guidelines	Site and desk review of EMP application Instructed to contractors for compliance at earliest
Training and capacity building activities	Orientation training, safeguard compliance training started and to be continued	On regular basis
Public consultation	After start of pipelaying work for urban packages consultation of public and shopkeepers will be started Informal consultation carried out with locals near tube well construction location	Consultation needs to be continued on regular basis
GRM establishment and GRC formation	GRM notification – done. GRC mentioned in the notice. Selection of members at PIU level – under process	GRM-GRC boards will be placed at work site shortly by January 2025

APPENDIX

APPENDIX - 1: PHOTO ILLUSTRATION

Urban Package: TUDA/WS-01/P-01 (Cluster IA Water Supply)



Project display board, safety signage noted at Ranirbazar DTW work site near cremation ground



Slurry and muck collection pit at Tube well site. Caution tape placed near excavated area



Worker's tent at DTW construction site at Ranirbazar



Separate cooking arrangement with cooking gas, fire extinguisher – noted



First aid box available at Ranirbazar work site.



Project display board – noted at Mohanpur DTW site – Ramkrishna Palli, Old MNC office One Temple is located nearby the



Safety signage noted at Mohanpur DTW site

DTW construction work site



Worker's tent with drinking water and first aid facility



Bamboo barricading noted at work site



Cleaning process of tube well is under progress. Use of PPEs by the workers noted at site



DTW Yield value checking done at Jibanda School Khowai



Land demarcation work done at Khowai Jibananda School.

Urban Package: TUDA/WS-02/P-02 (Cluster IIA Water Supply)



DTW work just started at Belonia – near Dr. Abul Kalam Azad community hall



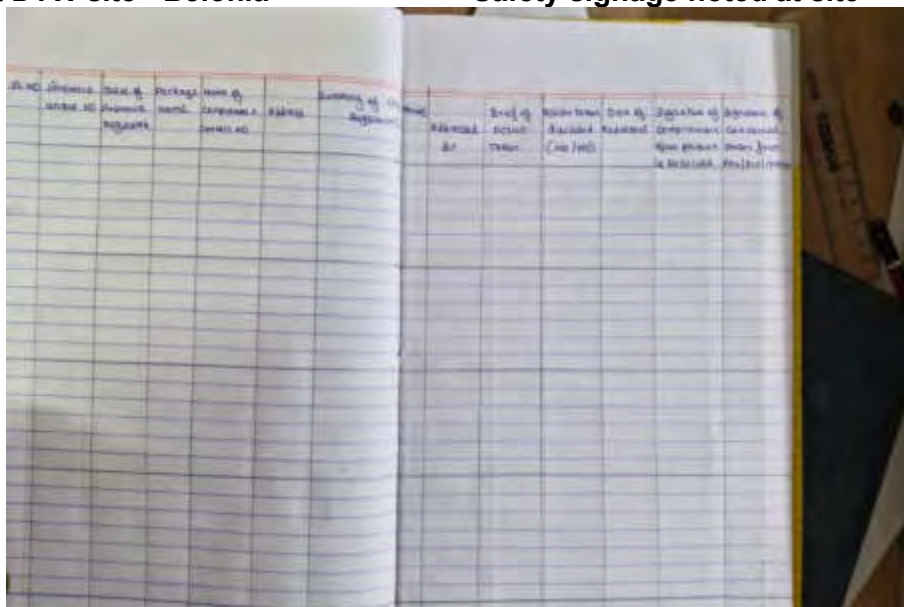
Waste water and muck stored at site, which will be discharge



Toilet facility at DTW site - Belonia



Safety signage noted at site



Sample Grievance record register at site

Tourism Package: TTDCL/CHB/W 01 (Tourism Destination Development at Chabimura)



Project display board noted at project site office



Emergency contact number board at project site office



Worker's camp with facility – noted



Proper storage of fuel drum. 110% containment volume metal tray noted.



Toilet facility noted with labour camp. Arrangement of water is necessary



First aid box placed at labour camp



Proper material storage is required. Stone aggregates need to be removed from camp access



Shuttering of boundary fencing beam – under progress



Material storage yard. Steel keeps under cover



Concreting work for Eco Cottage. Use of PPEs by workers – noted



Work area flooded from Gomati river in the month of August 2024



Staff quarter PCC bed preparation – under progress



Sample Grievance/ Suggestion box arranged at work site

Tourism Package: TTDCL/UKT/W04(Development of Sonamukhi Eco Accommodation & Adventure Park)



Worker's camp constructed at project site



Project display board at site



Worker's Gents and Ladies toilet



Site laboratory and staff camp



Diesel store at site



Steel storage yard



Vegetation cleaning work in progress



Surveying and layout marking work in progress

APPENDIX – 2: POLLUTION UNDER CONTROL CERTIFICATE**SAMPLE COPY****Urban Package: TUDA/WS-01/P-01 (Cluster IA Water Supply)**

Form 59

[See rules 115 (2)]

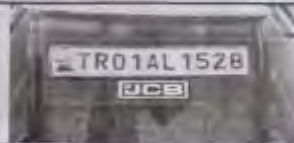
Pollution Under Control Certificate

Authorised By
State Transport Department

Date : 14/09/2024
Time : 11:43:27 AM
Validity upto : 13/03/2025

Certificate SL. No. : TR00100170003506
Registration No. : TR01AL1528
Date of Registration : 22/May/2018
Month & Year of Manufacturing : April 2018
Valid Mobile Number : *****4517
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : TR0010017
GSTIN :
Fees : Rs. 110.00
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



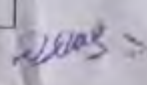
Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.62

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator
60mm x 20 mm

TRIPURA AUTO MOBILE
EXHAUST TEST CENTRE
KARTALI, AGARTALA



Urban Package: TUDA/WS-02/P-02 (Cluster IIA Water Supply)

Form 59

[See rules 115 (2)]

Pollution Under Control CertificateAuthorised By :
State Transport DepartmentDate : 29/07/2024
Time : 10:02:20 AM
Validity upto : 28/01/2025

Certificate SL. No.	:	TR00100210003332
Registration No.	:	TR02C0391
Date of Registration	:	21/Feb/2008
Month & Year of Manufacturing	:	January-2008
Valid Mobile Number	:	*****0000
Emission Norms	:	BHARAT STAGE III
Fuel	:	DIESEL
PUC Code	:	TR0010021
GSTIN	:	
Fees	:	Rs.110.00
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.65
This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.				

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>Authorised Signature with stamp of PUC Operator
60mm x 20 mm

Tourism Package: TTDCL/CHB/W 01 (Tourism Destination Development at Chabimura)

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By :
State Transport Department

Date : 05/07/2024
Time : 10:59:29 AM
Validity upto : 04/07/2025

Certificate SL No. : TR00300060002692
Registration No. : TR03L1673
Date of Registration : 09/Jun/2022
Month & Year of Manufacturing : April-2022
Valid Mobile Number : *****9584
Emission Norms : CEV STAGE IV
Fuel : DIESEL
PUC Code : TR0030006
GSTIN :
Fees : Rs.100.00
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.63

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator
60mm x 20 mm

ATA AUTOMOBILE EXHAUST TESTING CENTRE
Trijumman, Amarpur, (G) T...
M:-8787391518/03821-295273

Scanned with ACE Scanner

Tourism Package: TTDCL/UKT/W04(Development of Sonamukhi Eco Accommodation & Adventure Park)

Form 59
(See rules 115 (2))

Vehicle Under Control Certificate

Issued By: _____
State Transport Department

Date: **01/07/2024**
Time: **11:14:41 AM**
Validity: **30/06/2025**

Vehicle No: **TR00200940002120**
Registration No: **M201P6660**
Date of Registration: **21/Dec/2017**
Month & Year of Manufacturing: **August 2017**
Fuel Type/Model Number: *******4602**
Emission Norms: **BHARAT STAGE IV**
Fuel: **DIESEL**
PUC Code: **TR0020004**
GSTIN: _____
Price: **Rs. 1,10,00**
MS Information: **No**

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling (above 1500 RPM)	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Opacity	Light absorption coefficient	1/metre	1.62	1.05

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorized Signature with stamp of PUC Operator
Minimum 20 mm

M-878778-1662

APPENDIX - 3: LABOUR LICENSE

Urban Package: TUDA/WS-01/P-01 (Cluster IA Water Supply)

Application – Payment Chalan - Khowai

E - CHALLAN Government of Tripura (Candidate Copy)																
GRN :	24154AA398 Date: 02 Jun 2024 09:50:07															
Office Name:	99001-New Secretariat, Tripura															
Treasury:	E-Treasury, Tripura															
Period:	(2024-25) One Time															
<table><thead><tr><th>Head of Account</th><th>Amount</th><th>₹</th></tr></thead><tbody><tr><td>0230-00-101-37-06</td><td></td><td>400</td></tr><tr><td>0230-00-106-37-02</td><td></td><td>200</td></tr><tr><td>8443-00-103-37-01</td><td></td><td>3600</td></tr><tr><td>8443-00-103-37-02</td><td></td><td>10000</td></tr></tbody></table>		Head of Account	Amount	₹	0230-00-101-37-06		400	0230-00-106-37-02		200	8443-00-103-37-01		3600	8443-00-103-37-02		10000
Head of Account	Amount	₹														
0230-00-101-37-06		400														
0230-00-106-37-02		200														
8443-00-103-37-01		3600														
8443-00-103-37-02		10000														
DDO Code:	99001-New Secretariat, Tripura															
Deduction Amount: ₹	0															
Total/Net Amount: ₹	14200															
₹ Fourteen Thousands Two Hundred only																
TENDERER'S DETAIL																
GPF/PRAN/TIN/Actl. no./VehicleNo/TaxId:- 46002																
PAN No:																
Tenderer's Name: MS ECOPROTECTION ENGINEERS PV																
Address: MALANCHANAGAR SHAMOLIBAJAR AGARTALA TRIPURA WEST Agartala- 799002																
Particulars: Swagat Payment																
Cheque/DD-Details:																
Depositor's Signature:																
FOR USE IN RECEIVING BANK																
Bank CIN/Ref No : 10003102024060200033																
Payment Date : 02/06/2024																
Bank: SBI Aggregator																
Status: Success																

E - CHALLAN Government of Tripura (AQ/ Dept Copy)																
GRN :	24154AA398 Date: 02 Jun 2024 09:50:07															
Office Name:	99001-New Secretariat, Tripura															
Treasury:	E-Treasury, Tripura															
Period:	(2024-25) One Time															
<table><thead><tr><th>Head of Account</th><th>Amount</th><th>₹</th></tr></thead><tbody><tr><td>0230-00-101-37-06</td><td></td><td>400</td></tr><tr><td>0230-00-106-37-02</td><td></td><td>200</td></tr><tr><td>8443-00-103-37-01</td><td></td><td>3600</td></tr><tr><td>8443-00-103-37-02</td><td></td><td>10000</td></tr></tbody></table>		Head of Account	Amount	₹	0230-00-101-37-06		400	0230-00-106-37-02		200	8443-00-103-37-01		3600	8443-00-103-37-02		10000
Head of Account	Amount	₹														
0230-00-101-37-06		400														
0230-00-106-37-02		200														
8443-00-103-37-01		3600														
8443-00-103-37-02		10000														
DDO Code:	99001-New Secretariat, Tripura															
Deduction Amount: ₹	0															
Total/Net Amount: ₹	14200															
₹ Fourteen Thousands Two Hundred only																
TENDERER'S DETAIL																
GPF/PRAN/TIN/Actl. no./VehicleNo/TaxId:- 46002																
PAN No:																
Tenderer's Name: MS ECOPROTECTION ENGINEERS PV																
Address: MALANCHANAGAR SHAMOLIBAJAR AGARTALA TRIPURA WEST Agartala- 799002																
Particulars: Swagat Payment																
Cheque/DD-Details:																
Depositor's Signature:																
FOR USE IN RECEIVING BANK																
Bank CIN/Ref No : 10003102024060200033																
Payment Date : 02/06/2024																
Bank: SBI Aggregator																
Status: Success																

Labour license – Ranirbazar and Mohanpur

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/2024/02098

Dated. 11-06-2024

1. Licence is hereby granted to MS ECO PROTECTION ENGINEERS PVT LTD MANAGING DIRECTOR Mr CHANDRASEKAR Son/Daughter of CHINNASAMI, Address: MALANCHANAGAR, SHAMOLI BAZAR, AGARTALA, TRIPURA WEST, 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 MOHANPUR AND RANIRBAZAR OF TRIPURA
3. Name of the principal employer EXECUTIVE ENGINEER, TUDA, GOVT. OF TRIPURA.
4. Registration Certificate no. F.NO.3-(53) TUDA/PROJECT/2023/P-I/2091-2109 and Date 06-02-2024 of the principal employer
5. The licence shall remain in force till 10-06-2025.
6. Maximum number of contract labour 40 to be employed on a single day under the licence
7. Maximum number of migrant workmen 20 to be employed on a single day under the licence

Fee Paid

Contract Labour Rs. 400
ISMW Rs. 200

Security Deposited Paid

Contract Labour Rs. 3600
ISMW Rs. 10000



Signature: Not Required

Designation: Licensing Officer

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

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

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

Urban Package: TUDA/WS-02/P-02 (Cluster IIA Water Supply)
Application – Payment Chalan - Belonia

E - CHALLAN Government of Tripura (Candidate Copy)	
GRN :	24158AJ746 Date: 06 Jun 2024 20:05:54
Office Name:	99001-New Secretariat, Tripura
Treasury:	E-Treasury, Tripura
Period:	(2024-25) One Time
Head of Account	Amount ₹
0230-00-101-37-06	600
0230-00-106-37-02	200
8443-00-103-37-01	5400
8443-00-103-37-02	12500
DDO Code:	99001-New Secretariat, Tripura
Deduction Amount: ₹	0
Total/Net Amount: ₹	18700
₹ Eighteen Thousands Seven Hundred only	
TENDERER'S DETAIL	
GPF/PRAN/TIN/Act. no./VehicleNo/TaxId:- 46265	
PAN No:	
Tenderer's Name: MS ECO PROTECTION ENGINEERS PV	
Address: 12 OPP HOTEL ROYAL INN VIDHYASAGAR SARANI UDAIPUR GOMATI TRIPURA Udaipur- 799105	
Particulars: Swagat Payment	
Cheque-DD-Detail:	
Depositor's Signature	
FOR USE IN RECEIVING BANK	
Bank CIN/Ref No : 10003102024060600827	
Payment Date : 06/06/2024	
Bank: SBI Aggregator	
Status: Success	

E - CHALLAN Government of Tripura (AG/ Dept Copy)	
GRN :	24158AJ746 Date: 06 Jun 2024 20:05:54
Office Name:	99001-New Secretariat, Tripura
Treasury:	E-Treasury, Tripura
Period:	(2024-25) One Time
Head of Account	Amount ₹
0230-00-101-37-06	600
0230-00-106-37-02	200
8443-00-103-37-01	5400
8443-00-103-37-02	12500
DDO Code:	99001-New Secretariat, Tripura
Deduction Amount: ₹	0
Total/Net Amount: ₹	18700
₹ Eighteen Thousands Seven Hundred only	
TENDERER'S DETAIL	
GPF/PRAN/TIN/Act. no./VehicleNo/TaxId:- 46265	
PAN No:	
Tenderer's Name: MS ECO PROTECTION ENGINEERS PV	
Address: 12 OPP HOTEL ROYAL INN VIDHYASAGAR SARANI UDAIPUR GOMATI TRIPURA Udaipur- 799105	
Particulars: Swagat Payment	
Cheque-DD-Detail:	
Depositor's Signature	
FOR USE IN RECEIVING BANK	
Bank CIN/Ref No : 10003102024060600827	
Payment Date : 06/06/2024	
Bank: SBI Aggregator	
Status: Success	

Labour license – Udaipur and Amarpur

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/GMT/LCTR/2024/02366

Dated. 21-09-2024

1. Licence is hereby granted to MS ECO PROTECTION ENGINEERS PVT LTD MANAGING DIRECTOR Mr CHANDRASEKAR Son/Daughter of CHINNASAMI, Address: 12 OPP. HOTEL ROYAL INN, VIDHYASAGAR SARANI, UDAIPUR, GOMATI TRIPURA, 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 DESIGN BUILD AND OPERATE DBO CONTRACT FOR COMPREHENSIVE WATER SUPPLY IMPROVEMENT WORKS FOR UDAIPUR AND AMARPUR CLUSTER IIA TOWNS OF TRIPURA.
3. Name of the principal employer EXECUTIVE ENGINEER, TUDA, GOVT. OF TRIPURA.
4. Registration Certificate no. TR/GMT/RCL/2024/00096 & TR/GMT/RISMW/2024/00069 and Date 20-08-2024 of the principal employer
5. The licence shall remain in force till 20-09-2025.
6. Maximum number of contract labour 60 to be employed on a single day under the licence
7. Maximum number of migrant workmen 25 to be employed on a single day under the licence

Fee Paid

Contract Labour Rs. 600

ISMW Rs. 200

Security Rs. 5400

ISM Rs. 100

SPC-106-008653

Signature: Not Required

Designation: Licensing Officer

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

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

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

Tourism Package: TTDCL/CHB/W 01 (Tourism Destination Development at Chabimura)

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/GMT/LCTR/2024/02283

Dated. 05-09-2024

1. Licence is hereby granted to BVG INDIA LIMITED Son/Daughter of RAMDAS GANPATRAO GAIKWAD,
Address: 250, KAWADE NAGAR, NEW SANGVI, PUNE CITY, MAHARASHTRA -411027
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 Tourism Destination Development at Chabimura and upgradation of visitors amenities at Fatik Sagar and Amar Sagar, Amarpur, Gomati Tripura
3. Name of the principal employer TTDCL
4. Registration Certificate no. TR/WTR/RCL/2024/00087 and Date 21-06-2024 of the principal employer
5. The licence shall remain in force till 04-09-2025.
6. Maximum number of contract labour 25 to be employed on a single day under the licence
7. Maximum number of migrant workmen 25 to be employed on a single day under the licence

Fee Paid

Contract Labour Rs. 400
ISMW Rs. 200

Security Deposited Paid



SPC-106-009743

Signature: Not Required

Designation: Licensing Officer

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

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 swagat.tripura.gov.in portal.

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

Tourism Package: TTDCL/UKT/W04 (Development of Sonamukhi Eco Accommodation & Adventure Park)

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/UKT/LCTR/2024/02245

Dated. 03-08-2024

1. Licence is hereby granted to TRIBENI CONSTRUCTIONS LTD Son/Daughter of Late Mathura Prasad Agarwal,
Address: House no. 36, Bye Lane No. 4, Rajgarh Link Road, Anil Nagar, Guwahati 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 Development of Sonamukhi Eco Accommodation and adventure Park and Rehabilitation of Unakoti Tourist Lodge at Kailashahar under ADB assisted project.
3. Name of the principal employer TRIPURA TOURISM DEVELOPMENT CORPORATION LTD.
4. Registration Certificate no. TR/WTR/RISMW/2024/00066 and Date 21-06-2024 of the principal employer
5. The licence shall remain in force till 04-08-2025.
6. Maximum number of contract labour 50 to be employed on a single day under the licence
7. Maximum number of migrant workmen 150 to be employed on a single day under the licence

Fee Paid

Contract Labour Rs. 400

ISMW Rs. 800

Security Deposited Paid



SPC-106-009610

Signature: Not Required

Designation: Licensing Officer

APPENDIX -4: CONTRACTOR'S INSURANCE POLICY FOR WORKERS

Urban Package: TUDA/WS-01/P-01 (Cluster IA Water Supply)



BAIJAJ ALLIANZ GENERAL INSURANCE COMPANY LIMITED

(A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDAI) vide Regd. No.137)

Regd. Office: Bhaij Allianz House, Airport Road, Taramani, Pune 411008 (India)

EMPLOYEE'S COMPENSATION INSURANCE POLICY SCHEDULE UIN: INDANI13CP0052ND201920

Policy issuing office and correspondence address for communication by holder of policy for claim, service request, notices, renewals, etc.		487/488, 5th floor, Bhaij Allianz Building, Poppaswadi High Road, Arambakkam, Chennai - 600106	
Insured Name		ECO PROTECTION ENGINEERS PVT LTD	
		Policy Number	
		DG-25-1501-2802-00000532	
INSURED DETAILS		POLICY DETAILS	
Proposer Address:	PLOT NO 943, 5TH STREET, TVS COLONY ANNA NAGAR WEST EXTN CHENNAI-600103, TAMIL NADU	Policy Issued on:	17 SEP 2024
Customer ID	148467290	Period of Insurance	From: 22 AUG 2024 12:01 AM To: 21 AUG 2503 Midnight
CSIN / UIN	TAACCEZ15PE20	Endorsement	DG-25-1501-2802-00000532-EM02 [End] DL37-SEP-2024 Wed 17 SEP 2024
STATE CODE/NAME	03 - Tamil Nadu	Policy Status	Issued
1. No.			
2.	Risk Location address	Cluster I Adithyan / Adithyan / Adithyan	
3.	Proposer's business (Correspondence) address	Cluster I Adithyan / Adithyan / Adithyan	
4.	Proposer's trade or occupation	PROJECT - Water Supply Improvement Work Cluster I (Tripura Urban Planning and Development Authority (TUDA))	
5.	Particulars of work to be covered in Detail	PROJECT - Water Supply Improvement Work Cluster I (Tripura Urban Planning and Development Authority (TUDA))	
6.	Retrospective Date: The company shall not be liable for any claim prior to this date when if the claim is first made during the policy period (Applicable only to Occupational Disease Endorsement)		
7.	Notes: The Policy covers liability of the insured under the following Law(s) chosen as covered. Subject to terms being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to limit of indemnity as stipulated against each Law		
8. INCL	LAW	LIMIT OF INDEMNITY	COVERED
8(a)	Employee Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & exclusions of the Policy, the amount of liability insured by the Insured (Employee's covered under Employees State Insurance Act 1923) are not covered under this indemnity.	Yes
8(b)	Common Law	Subject otherwise, to the terms, conditions & exclusions of the Policy, the amount of liability insured by the Insured	Yes

7. Additional Covers

Covered	Under Air Pollution	Aggregate Limit 0
NA		

8. Details of Employees Covered

Nature Of Work	Classification No.	Description Of Employees	Salary per Month	No of employees	No Of Months	Total Wages	Total Wages upto 12000	Total Wages upto 15000
Waterworks and Pumping Stations. Incl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	623	PROJECT MANAGER	Rs.50000	1	12	Rs.600000	Rs.500000	Rs.450000
Waterworks and Pumping Stations. Incl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	623	SITE INCHARGE	Rs.40000	1	12	Rs.480000	Rs.380000	Rs.300000
Waterworks and Pumping Stations. Incl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	623	SITE ENGINEER	Rs.25000	6	12	Rs.2520000	Rs.5080000	Rs.1440000
Waterworks and Pumping Stations. Incl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	623	SAFETY ENGINEER	Rs.25000	1	12	Rs.300000	Rs.300000	Rs.240000

For help and more information:

Contact our 24 Hour Call Centre at 1800-338-5588, 1800-102-5656 (Toll free)

Email: baiaj@allianz.com, baiaj@allianz.comCorporate Credit Rating Number: <https://www.baiaj.com><https://www.baiaj.com><https://www.baiaj.com><https://www.baiaj.com>

Fax no: 044-80522246

Give a Missed Call on 8880545001, SMS WDRITY to 575758

Say Hi on WhatsApp on 7507245858

Page 7 of 11



(A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDAI) Lic. Regd. No.113)

Regd. Office: Bajaj Allianz House, Airport Road, Yerwade, Pune 411006 (India)

EMPLOYEE'S COMPENSATION INSURANCE POLICY SCHEDULE UIN: IRDAN113CPO053VD1201920

Policy issuing office and correspondence address for communication by holder of policy for claim, service request, notice, summons, etc.	497/498, 5th floor, Isara Kattina building, Poornavallee High Road, Arumbakkam, Chennai - 600106
--	--

Insured Name:	ECO PROTECTION ENGINEERS PVT LTD
---------------	----------------------------------

Policy Number	OG-75-1501-2802-00000632
---------------	--------------------------

9. Period of Insurance

From 22-AUG-2024 to 21-AUG-2025 (both days inclusive)

10. Co-Share Details

Own Share: 100%

11. Premium Details

Full height and crown width ratios:

Contact our 24 Hour Call Centre at 1 800-208-4358, 1 800-100-5262 (Toll Free)

Downloaded from <http://ajphaphysoc.org/> at University of California, San Diego on June 11, 2015

Corporate Identification Number: UN0000942000PL00155007

Free fax 1205-855 173 46

Give a Mixed Call on 080046000, SMS WORRY to 070750

Say Hi on WhatsApp us on 750/245858

Follow us on Facebook: <https://www.facebook.com/EdsAlla>
 or on Twitter: <https://twitter.com/EdsAlla>

<http://twitter.com/DejaVu>

<http://www.aphis.usda.gov/wnaaff/npa>

<https://www.cambridge.org/core/terms> <https://doi.org/10.1017/S0022278X20000530> Published online by Cambridge University Press

© 2005 Life Insurance

Page 9 of 11



BAJAJ ALLIANZ GENERAL INSURANCE COMPANY LIMITED

(A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDAI) vide Regd. No.118)

Regd. Office: Bajaj Allianz House, Airport Road, Yerwade, Pune - 413006 (India)

EMPLOYEE'S COMPENSATION INSURANCE POLICY SCHEDULE UIN: IRDA/LET/CP006/3VQ2201920

Policy Issuing office and correspondence address for communication by holder of policy for claim, service request, notice, summons, etc.	497/498, 5th floor, Isana Kattime Building, Poomamallee High Road, Arumbakkam, Chennai - 600106
Insured Name	EEO PROTECTION ENGINEERS PVT LTD
Policy Number	CG-JS-1501-2802-00000532

Special Conditions	1. Subject to submission of duly filled in proposal & payment of premium. 2. All the workers in site have to be covered and the books of accounts and attendance register shall be meticulously maintained by the insured. 3. Gross wages including value of perquisites need to be given. 4. In the event of a claim and if employee is covered under the ESE Act, then appropriate affidavit regarding non-submission of claim for same incidence at ESE will be required for processing the claim on event under this policy. This document will be mandatory in nature and without this document claim process will be prejudiced. 5. Coverage applicable under Fatal Accident Act, DSS.
Claims	1. On expiry of policy actual statements of wages need to be provided for adjustment of premium. 2. Only specified work nature is covered and any change in work nature needs to be informed and terms change accordingly. 3. To include employees of sub-contractors, full details of contract are to be furnished specifically. 4. All other details and terms to be same as existing employee compensation insurance policy.
Warranties	1. Starting works or works involved with employees not covered unless specified and agreed by Insurance Company. 2. All employees shall be covered without any selection under given job Description. 3. Intoxicated and penalty are not covered. 4. The policy does not cover for accidents occurring under the influence of intoxicating liquor or drugs or where employee has disobeyed safety instructions or regulations, or disregarded the use of safety devices.
Exclusions	1. Any liability caused by any infectious or contagious disease is not covered under this policy. 2. Oil & Energy, Offshore, Blasting/Tunneling, Mining, Asbestos, Security Agencies not covered unless specified and agreed by Insurer. 3. Any change with respect to Any changed/ revised rates/ revised instructions from regulatory/ supervisory bodies like IRDAI/IRDAI/CI/CI Council. 4. Cyber Risk exclusion NMA 2915. 5. Section & Limitations clause.
Additional cover	NA
Proposal date	NA
General Instructions Ref. No.	
Agency Code & Name	44530001, Priyadarshini Sheshadri
Contact No.	09845317008, 09845317008
E-Mail	BNSIYENGAR17@GMAIL.COM

It is mandatory to keep your policy with updated contact (Mobile No., Email ID and PAN Card) and bank details. To avoid any of your service requests faster and hassle-free in future.

You can update the same through Carrying your App (<http://www.bajajallianz.com>), WhatsApp Service (Say Hi on WhatsApp - +91 75072 45858), Contact our 24-Hour Call Centre at 1800-305-1008, 1800-103-9958, Give a Missed Call on 1800395000, SMS/WHY to 575756, Email bajajhelp@bajajallianz.co.in, website (<http://www.bajajallianz.com>), contact your agent or nearest branch.

For & on the behalf

Bajaj Allianz General Insurance Company Ltd.

QR Code



Authorized Signatory

This document is digitally signed, hence counter signature / Stamp is not required

Consolidated Stamp Duty of Rs. 25.85/- paid for insurance policy stamps vide Order No. CSD/36/2024-25/2886 dated 01-AUG-24 of General Stamp Office, Mumbai, India.

BASIC GST No: 33AAH29573G124 | Principal Location: 497/498, 5th floor, Isana Kattime Building, Poomamallee High Road, Arumbakkam, Chennai - 600106 Ph: 044-43994600 | Service Accounting Code: 997395 - Other non-life insurance services (including reinsurance services). No reverse charge is payable on these services. | Invoice No.: 483459345/2

Schedule: 3 | Printed on: 17-Sep-2024 09:06:59 | karthika.s@bajajallianz.com | VES |

For info and more information:

Contact our 24 Hour Call Centre at 1800-305-1008, 1800-103-9958 (Toll Free)

Email: bajajhelp@bajajallianz.co.in, Website: www.bajajallianz.com
General Instructions: Mumbai: www.bajajallianz.com<https://www.bajajallianz.com/bajajallianz><http://india.bajajallianz.com><http://www.bajajallianz.com/bajajallianz><https://www.bajajallianz.com/bajajallianz>

For Act: 044-89512286

Give a Missed Call on 1800395000, SMS/WHY to 575756
Say Hi on WhatsApp at 7507245858

Securely Insure

Page 2 of 3

Urban Package: TUDA/WS-02/P-02 (Cluster IIA Water Supply)



BAJAJ ALLIANZ GENERAL INSURANCE COMPANY LIMITED

(A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDAI) vide Regd. No.113)

Regd. Office: Baji Allianz House, Airport Road, Yerewade, Pune 411006 (India)

EMPLOYEE'S COMPENSATION INSURANCE POLICY SCHEDULE UIN: IRDAN11SCPO063V02201920

Policy Issuing office and correspondence address for communication by holder of policy for claim, service request, notice, summons, etc.

497/498, 5th floor, Isha Kalima building, Poonamallee High Road, Anambakkam, Chennai - 600106

Insured Name ECO PROTECTION ENGINEERS PVT LTD

Policy Number CG-25-1501-2802-0000531

INSURED DETAILS		POLICY DETAILS	
Proposer Address:	PLOT NO 963, 54TH STREET, IVS COLONY ANNA NAGAR WEST EXTN CHENNAI- 600101 TAMIL NADU	Policy issued on:	17-SEP-2024
		Period of Insurance:	From: 22-AUG-2024 12:01 AM To: 21-AUG-2025 Midnight
Customer ID:	148467290	Endowment:	CG-25-1501-2802-0000531-EN02 End On: 17-SEP-2024 Wed. 17-SEP-2024
GSTIN / IEN:	33AACCE7151P120	Policy Status:	Issued
STATE CODE/NAME:	33 - Tamil Nadu		

SL. NO.	This Location/Address		Cluster IIA, Village/Amman, Echraungu, Melghat, Bikanis
1	Proposer's business/Correspondence address:		Cluster IIA, Village/Amman, Echraungu, Melghat, Bikanis
2	Proposer's trade or occupation:		PROJECT - Water Supply Improvement Work Cluster II Tropics Urban Planning and Development Authority (TUDA)
3	Particulars of work to be covered in Detail:		PROJECT - Water Supply Improvement Work Cluster II Tropics Urban Planning and Development Authority (TUDA)
4	Retrospective Date: The company shall not be liable for any claim prior to this date even if the claim is first made during the policy period (Applicable only for Occupational Disease Endowment)		
5	Limit: The Policy covers Liability of the insured under the following law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to limit of indemnity as stipulated against each law:		

SL. NO.	LAW	LIMIT OF INDEMNITY	COVERED
a(i)	Employees Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of the Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability insured by the insured (Employee covered under Employees State Insurance Act 1948 are not covered under this insurance)	Yes
a(ii)	Common Law	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability insured by the insured	Yes

7. Additional Covers

Cover	Limit Per Employee	Aggregate Limit
NA		

8. Details of Employee Covered

Nature of Work	Classification No.	Description of Employees	Salary Per Month	No of employees	No of Months	Total Wages	Total Wages upto 15000	Total Wages above 15000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	PROJECT MANAGER	Rs.50000	1	12	Rs.600000	Rs.150000	Rs.450000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	SITE INCHARGE	Rs.40000	1	12	Rs.480000	Rs.150000	Rs.330000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	SITE ENGINEER	Rs.25000	07	12	Rs.2100000	Rs.1050000	Rs.1050000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	SAFETY ENGINEER	Rs.35000	1	12	Rs.420000	Rs.150000	Rs.270000

For Amd and make int/revision:

Contact our 24 Hour Call Centre at 1800-309 4608, 1800-302 5858 (Toll Free)

Email: Regulatory@ Bajaj Allianz.co.in, Insurance@ Bajaj Allianz.co.in

Complaint Helpline Number: 1800-309 4608/1800-302 5858

<http://www.bajajallianz.com/BajajAllianz><http://twitter.com/BajajAllianz><http://www.facebook.com/BajajAllianz>

Ref no: B00-0012748

Create a Mutual Call on 09909040555, 09950000000/09950000000

Buy H on WhatsApp on 7807240555

<http://www.linkedin.com/company/bajaj-allianz-general-insurance><http://www.google.com/+BajajAllianz>

Page 7 of 11



(A Company incorporated under Indian Companies Act, 1956 and licensed by Insurance Regulatory and Development Authority of India (IRDAI) vide Regd. No.113)

Reqd. Office: Bajaj Allianz House, Airport Road, Yerwada, Pune 411006 (India)

EMPLOYEE'S COMPENSATION INSURANCE POLICY SCHEDULE UIN. IRDAN113CP0053VD1201920

Policy issuing office and correspondence address for communication by holder of policy for claim, service request, notice, surrenders, etc.		497/498, 5th floor, Kana Kattina building, Peerasambalur High Road, Annambakkam, Chennai - 600106
Insured Name:	ECO PROTECTION ENGINEERS PVT LTD	Policy Number
		06-25-1501-2802-00000631

Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	QUALITY ENGINEER	Rs.25000	1	12	Rs.420000	Rs.180000	Rs.240000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	MECHANICAL ENGINEER	Rs.25000	1	12	Rs.420000	Rs.180000	Rs.240000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	ELECTRICAL ENGINEER	Rs.25000	1	12	Rs.420000	Rs.180000	Rs.240000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	STORE INCHARGE	Rs.8000	8	12	Rs.720000	Rs.360000	Rs.500000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	SUPERVISOR	Rs.25000	10	12	Rs.3000000	Rs.1800000	Rs.1200000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	MACHINERY OPERATORS	Rs.25000	8	12	Rs.1200000	Rs.720000	Rs.880000
Domestic Servants-In private residences or in personal service of employer Residence in boarding house club or hotel (not in employee of proprietors) Motor Car Driver, Cleaners and attendants	123	DRIVERS	Rs.20000	6	12	Rs.1440000	Rs.1080000	Rs.880000
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	SKILLED WORKMEN	Rs.15000	25	12	Rs.4500000	Rs.4500000	Rs.0
Waterworks and Pumping Stations Excl. construction, alteration maintenance or repair work, the sinking or digging of wells and the use of Explosives	629	UNSKILLED WORKMEN	Rs.15000	80	12	Rs.1080000	Rs.1080000	Rs.0

From 22-AUG-2024 to 21-AUG-2025 (both days inclusive)

Own Share: 100%

Description:	Description:	Amount (INR)
	Net Premium	Rs. 70,676
	State-GST (9%)	Rs. 6,361
	Central GST (5%)	Rs. 3,661
	Final premium	Rs. 80,698



Tourism Package: TTDCL/CHB/W01 (Tourism Destination Development at Chabimura)



IFFCO - TOKIO GENERAL INSURANCE CO. LTD

Regd. Office: IFFCO SADAN (1) Dist Centre Saket New Delhi - 110017

Workmen's Compensation Policy Schedule

Cum Tax Invoice

ORIGINAL FOR RECIPIENT

OST Application

UIDI : IRDAI106P0006V01200001



Servicing Office:

IFFCO TOKIO GENERAL INSURANCE

Office no 16, 6th Floor

Sagar Platinum Tower/Mayap Road

Off Mangadra Road,Pune-411001

State Code: 27, GSTIN: 27AAAC7573H1ZC

General Insurance Service: 987133

Insured's name:	BVG INDIA LTD.			Unique Invoice No.	43317011
Address:	4th Floor, Moss Tower, Rajiv Gandhi Infotech Park/Hinjewadi			Policy No.	43317011
	Phase-1, Pune			Date of Issuance	30/01/2024
	HINJAYADI (CT), MAHARASHTRA			Policy effective from 0001 hrs	02/01/2024
	Pincode: 411057			To Midnight	11/01/2025
State Code/Place of Supply	27	Country Name:	India	GSTIN	27AACCB2943142K
Phone Number	XXXXXX0266	Cell No.		Agent No.	5000485 SIA
Aadhaar No.				Agent Name	LORDS MARK INSURANCE BROKING SERVICES PVT LTD

	Turnin Value	GST	SGST	IGST	CESS
Rate		8.00	8.00	0.00	0.00
Amount	5208.00	488.72	488.72	0.00	0.00
Total Tax		936.44			
			Total Value		₹6136.44

Whether GST is Payable on Reverse Charge Basis - No

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Trade or Business	House keeping, Facility attendant, Mechanised
Place of Employment(s)	Tourism Destination Development At Chabimura &
	Upgradation And Beautification Of Visitor Amenities
	At Fatih Sagar And Amar Sagar And Fatih Sagar

Sl. No.	Category of Employee	Estimated Total Wages,Salaries and other e	Rate (%)	Premium without Service Tax (Rs.)
1	(i) Worker Wages upto 15000	160000.00	0.4614	17805.20
2	Worker Wages above 15000	240000.00	0.0908	1219.20
3	(ii) Worker Wages upto 15000	540000.00	0.6144	35715.60
4	Worker Wages above 15000	720000.00	0.0440	3168.00
		Overall Total Wages		1680000.00

Signature Not Verified

Digitally signed by SUBRAT K MOJAL

Date: 2024.01.18 10:23:02 IST

Reason: Valid Policy Copy

Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIDI : IRDAI106P0006V01200001)

Attaching to and forming part of Policy Number 43317011

How Signature is Verified -> Go to 'Show page's Options' -> Go to 'Verify That' -> Click on 'Verify'

Downloaded from: https://www.iffco-tokio.com

Additional Clauses /Endorsements / Other details, if any
Classification No. 120 & Endorsement No. 179
Total Workers: 40 & Total Wages: Rs 16,800,000/-
10 Skilled Worker Monthly Wages Rs. 35000/-Per worker
05 SemiSkilled Worker Monthly Wages Rs. 35000/-Per worker
25 UnSkilled Worker Monthly Wages Rs. 35000/-Per worker
Location:-
Tourism Destination Development At Chabimura & Upgradation And Beautification Of Visitor Amenities At Fatik Sagar And Amar Sagar And Fatik Sagar, Amarpur, Tripura 796001, And Amarpur City. A - 40, Akhaura Road, Agartala 799 001 Tripura, India And Near By Location Of Tripura.
Nature of Work:-
House keeping & M&PS Manpower Service & Technician , landscape civil work , irrigation work , construction work, guard, Shelf , and related work Complete Detail - Tourism Destination Development at Chabimura and upgradation/Beautification of Visitor amenities/facilities at Fatik Sagar and Amar Sagar- River Rejuvenation, Entrance Gate, Bus ,car, Ambulance, Fire Brigade Parking, Entrance plaza with security tower, interpretation center, toilet & Drinking water facility,Tree Plaza,Refurbished main jetty,Lawn -open and seating, Picnic Area,Childrens play area, souvenir shops, Restaurants, Kayak Storage River Bridge,Cottages, Deck & Benches Gardens, party Lawns , Double storey cottages,Staff quarters , yoga area,water supply, sanitization components, Storm Water drainage system , irrigation system, electrical, Gabion Mattresses, Construction of pathway & Cycle track along Peripherl, 2x2 MLD STP, Ring Main Drain, Solar System, Allied Electrical Work, Structural Bridges, Garden Development, Sculptures, Broughtout Items & Boating Work etc.
Standard Terms, Conditions, Warranties, Exclusions
1. Quote is subject to worker are properly trained and Adequate safety measures to be followed while working on site as per industry norms.
2. Attendance Register should be maintained in the places of

Signature Not Verified

Digitally signed by SUBRATA MOHANTY,
Date: 2024.01.16 10:23:02 IST
Reason: Valid Policy Copy
Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIN : IRDAN106P0006V01200001)

Attaching to and forming part of Policy Number 43317011

Show Signature Properties: Click on 'Show signer's Certificate' -> Go to Tab 'Trust' -> Click on 'Verify'

Trusted Certificates: Click on 'OK' -> Click on 'Close'

employment mentioned.

as designation on site should not exceed the total number of persons and designations as declared under the policy.

Furnish the total number of employees working on site at the time of accident. In case of total no. of workers as well as no. of persons in designation is exceeding, the same should be immediately informed to the insurer and the premium should be paid accordingly.

4 The change in places of employment if any during the policy period should be referred to the insurer.

compulsorily or else cover will be void.

.

Major Exclusion

1 The workman having been under the influence of liquor or drugs, or any other toxic.

2 The wilful disobedience by the workman of orders and rules expressly given to secure the safety of the workman.

or

3 The wilful trespass or disregard by the workman of any safety devices provided for the safety of workmen.

.

Additional Terms, Conditions, Warranties (if any) :

1 Medical Extension Benefit Covered upto INR 25,000 per case.

2 Occupational Diseases Not Covered.

3 Compressed air diseases are not covered.

4 Terrorism Covered.

5 No Cover for underground/tunnel Activities.

6 Warranted that no underground work and/or blasting is carried out at the work site.

7 Work carried out above 9 meters height IS Covered.

8 National extension including to & fro by own vehicle Not Covered.

9 Contractor, Sub contractor covered.

Agent Name & Telephone No:	LORDS MARK INSURANCE BROKING SERVICES PVT LTD
---------------------------------------	---

The Policy is subject to following endorsement(s) - Endorsement No / Endorsement Wording

The Policy is subject to the following Warranties / Conditions/ Definitions
1. Coverage of Employees should be as per The Indian Employee's Compensation Act - 1923.
2. Wage & Attendance register must be maintained.

Signature Not Verified

Digitally signed by SUBRATA MOHAPAL
Date: 2024.01.16 10:23:02 IST
Reason: Valid Policy Copy
Location: IFFCO Tokyo General Insurance Company Ltd, India

Workmen's Compensation (W) - IRDAN106F0006V012000011

Attaching to and forming part of Policy Number 43317011

Show Signature Properties -> Click on Show again to Download -> Go to Tab: Tools -> Click on Print to
Download Certificate -> Click on OK -> Click on Close

Exclusion: Losses or damages caused directly or indirectly due to any infectious or contagious disease, pandemic epidemics as declared by WHO and / or Government of India will be an exclusion under this policy.
The Coverage is as per Policy Wordings / Endorsements / Clauses attached with the Policy Schedule. Please go through Workmen's Compensation Policy and in case of discrepancy, Please inform us.
Corporate Identity Number(CIN): U74889DL2000PLC107021
Toll Free : 1-800-103-5499 ; Other : (0124) 428-5499 ; SMS "claim" to 56161
Policy Issuing Office: Delhi
Consolidated Stamp Duty deposited as per the order of Government of National Capital Territory of Delhi

Workmen's Compensation Insurance - Policy Wordings
Employer's Compensation Act 1923, Indian Fatal Accidents Act 1955, Common Law WHEREAS the Insured carrying on the Business described in the Schedule and no other for the purpose of this insurance by a proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein has applied to the IFFCO TOKIO GENERAL INSURANCE CO. LTD. (here in after called The Company) for the insurance hereinafter contained and has paid or agreed to pay the Premium in consideration for such insurance NOW THIS POLICY WITNESSETH that if at any time during the period of Insurance any employee in the Insured's immediate service shall sustain personal injury by accident or disease arising out of and in the course of his employment by the Insured in the Business and if the Insured shall be liable to pay compensation for such injury either under The Law(s) set out in the Schedule or at Common Law then subject to the terms, exceptions and conditions contained herein or endorsed hereon the Company will indemnify the Insured against all sums for which the Insured shall be so liable and will in addition be responsible for all costs and expenses incurred with its consent in defending any claim for such compensation. PROVIDED ALWAYS that in the event of any change in the Law(s) or the substitution of other legislation thereof this Policy shall remain in force but the liability of the company shall be limited to such sum as the Company would have been liable to pay if the Law(s) had remained unaltered. EXCEPTION The Company shall not be liable under the Policy in respect of: a. Any injury by accident or disease directly attributable to war, invasion, act of foreign enemy hostilities (whether war be declared or not) civil war, rioting, insurrection, rebellion, revolution or military or usurped power. b. The Insured's liability to employees of contractors to the Insured. c. Any liability of the Insured which attaches by virtue of an agreement but which would not have attached in the absence of such agreement. d. Any sum which the Insured would have been entitled to recover from any party but for an agreement between the Insured and such party. CONDITIONS 1. This Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been attached in any part of

Signature Not Verified

Digitally signed by SUBRATA MOYDAL
Date: 2024.01.16 10:23:02 IST
Reason: Valid Policy Copy
Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIN : IRDAN106P0006V01200001)
Attaching to and forming part of Policy Number 43317011

When Signed Properly: Click on "Show Signer's Seal/Name" or "Show Stamp" or "Show QR Code"
If not Verified: Click on "OK" or "Cancel" (Close)

Tourism Package: TTDCL/UKT/W04 (Development of Sonamukhi Eco Accommodation & Adventure Park)



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Viceroy Sarovar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

EMPLOYEE'S COMPENSATION INSURANCE

UIN- IRDANI15CP0017V02201920

POLICY SCHEDULE

Policy No. 4010/328270633/00/000 (TRUE COPY)

Issued at MUMBAI

1. Name of the Insured:

M/S TRIBENI CONSTRUCTIONS LIMITED

2. Address of the Insured:

Tribeni Commercial Complex
2nd Floor Ulubari G.S Road Guwahati
Kamrup
Assam Pin- 781007

3. Intermediary Details:

Agency Code:
Agency Name:
Agent's mobile no.:
Agent's E-mail ID :

4. Total Sum Insured:

2,08,80,000.00

5. Scope of cover:

Main Coverage:

WC Liability Cover Table 'A'

Medical Extension cover:

Medical Extension is covered upto Rs. 1,00,000

Extensions

Endorsement

(i) Table A: Coverage provided is Indemnity against legal liability for accidents to employees under the Workmen's Compensation Act, 1923 and subsequent amendments of the said Act prior to the date of the issue of the policy; The Fatal Accidents Act 1855 and at Common Law only

Exclusions:

- (i) Any employment compensation in excess of the actual sum insured for workmen compensation ordinance (not to apply in respect of common law awards).
- (ii) Underground and/or underwater mines and/or underground services in connection therewith. However, this exclusion shall only apply where more than 20 people are working at the same location at any one time.
- (iii) Subaqueous work (underwater work).
- (iv) Quarries, where explosives are used.
- (v) Contractors engaged exclusively in wrecking or demolition of building and/or scrap metal merchants.
- (vi) Aircraft crews in respect of flight risk. However, this exclusion shall not apply to aircraft which are set aside for non fare paying executive use and which are crewed by six persons or less.
- (vii) Ship crews other than on inland vessels or on vessels operating within territorial waters. However, this exclusion shall not apply to a vessel crewed by six persons or less.
- (viii) Fire bridges other than those formed privately for loss prevention purposes.
- (ix) Service in any kind of armed forces (including, but not limited to military, police, security services).
- (x) Operation of railways, other than sidings.
- (xi) Employees employed on a permanent basis in USA and/or Canada.
- (xii) Professional sports team.
- (xiii) Fire crackers manufacturing activity
- (xiv) Losses suffered in the course of manufacturing and /or supplying and/or producing storing, filling, breaking down,



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

transporting:- (a) Fireworks, ammunition, fuses, cartridges, powder, nitro-glycerine, or any explosives. (b) Gases and/or air under pressure in containers. (c) Butane, methane, propane, and other liquefied gases. (d) Celluloid and pyroxylin. (e) Petrochemicals and also chemicals of a toxic (as defined under India's Public Liability Act 1991), noxious, explosive and/or highly flammable nature. (f) Asbestos and/or asbestos products. (It is understood and agreed, however, that the storage, transport and/or handling if any of the substances above mentioned other than f) which is merely incidental to the operation and/or trade of the Insured not otherwise excluded, is covered.)

(xv) Losses suffered on or in connection with offshore rigs.

(xvi) Any compensation in medical extension expenses if the injured is hospitalized for more than 12 month due to an accident as per the coverage opted in WC policy

(xvii) Pandemics/epidemics as declared by WHO and / or Government of India

Conditions:

(i) Risk Classification code: 46

(ii) Policy for Table A only

(iii) Builders - construction incl civil constructions:

(iv) Medical expenses covered upto Rs. 1,00,000.

(v) Policy is issued on unnamed basis.

(vi) Entry age limit: As per WC Act

(vii) No. of lives: 100

(viii) Risk Location Address: LETTER OF ACCEPTANCE FOR SELECTION OF AGENCY FOR THE WORK OF DEVELOPMENT OF SONAMUKHI ECO ACCOMMODATION AND ADVENTURE PARK AND REHABILITATION OF TOURIST LODGE AT KAILASHAHAR UNDER ADB PROJECT, NORTH TRIPURA, 799277, TRIPURA, INDIA. FILE NO - F.2 (325) -PI/TT/2023/8840-43

Nature of work/activity

Policy type	UNNAMED
Entry age limit	As per WC Act
Policy cover	table A
Risk classification code	46 , 46
No of lives	100

6. Period of Insurance:

From: 05/02/2024 Time: 00:00 Hours

To Midnight of 04/02/2025

7. Premium Calculations

Premium Break Up	(Rs.)	Premium (Rs.)
Stamp Duty	(Rs.)	25.00
*Total Premium	(Rs.)	59,594.94

*Premium value mentioned above is inclusive of taxes applicable

8. Details of workmen to be insured

Estimated Number of Employees	Occupation Employees	Estimated Total Salaries Wages and other money earnings	Estimated Total Earnings for the Policy Duration	Place or Places of Employment	Industry Classification	Sub Industry Classification	Risk Classification Code
40	Skilled Workers	18,000.00	86,40,000.00	LETTER OF ACCEPTANCE FOR SELECTION OF AGENCY FOR THE WORK OF DEVELOPMENT OF	Builders - construction incl civil	NA	46



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

				SONAMUKHI ECO ACCOMMODATION AND ADVENTURE PARK AND-- REHABILITATION OF TOURIST LODGE AT KAILASHAHAR UNDER ADB PROJECT----- TRIPURA--NORTH TRIPURA- -799277	constructions		
60	Unskilled Workers	17,000.00	1,22,40,000.00	LETTER OF ACCEPTANCE FOR SELECTION OF AGENCY FOR THE WORK OF DEVELOPMENT OF SONAMUKHI ECO ACCOMMODATION AND ADVENTURE PARK AND-- REHABILITATION OF TOURIST LODGE AT KAILASHAHAR UNDER ADB PROJECT----- TRIPURA--NORTH TRIPURA- -799277	Builders - construction incl civil constructions	NA	46
Total: 100			Total: 2,08,80,000.00				

Subject otherwise to terms and conditions of Employee's Compensation Insurance Policy

Signed for and on behalf of the ICICI Lombard General Insurance Company limited, at Mumbai on this date 05/02/2024.

The Policy shall stand cancelled ab initio in the event of non-realization of premium.

Gaurav Arora

Authorized Signatory
ICICI Lombard General Insurance Company Ltd.

GSTIN Reg. No: 18AAACI7904G1ZM

IL GIC GSTIN Address : Office No 305 And 306, Third Floor, Kamkhya Tower, G.S Road, Guwahati, Kamrup Metropolitan,
Assam-781005

HSN/SAC code : 997139 - GENERAL INSURANCE SERVICES

"The stamp duty of Rs. 25.00 paid in cash or by demand draft or by pay order, vide Reciept/challan no. CSD1820234850 dated 30/11/2023."