



Environmental Monitoring Report

Project Number: 42265-023
Semestral Report: January 2022 – June 2022
March 2023

India: Assam Urban Infrastructure Investment Program - Tranche 1- Additional Financing

Prepared by Guwahati Development Department and Urban Development Department, Government of Assam for the Asian Development Bank

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.

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Asian Development Bank

ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM

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No. AUIIP/515/2023/94

Date: 21/03/2023

From: The Project Director,
Assam Urban Infrastructure Investment Program,
Ganeshguri, Guwahati-05

SFG Log: 5442

To: The Country Director,
India Resident Mission
Asian Development Bank.

Sub: Loan No. 2806-IND & 3624-IND: Submission of Revised Semi Annual Environmental Monitoring Report for the period January- June 2022 and Semi Annual Environmental Monitoring Report for the period July- December 2022.

Ref: Your E-mail Dated 13.03.2023

Sir,

With reference to the subject cited above, I am submitting herewith the Revised Semi Annual Environmental Monitoring Reports for the period January to June 2022 and Semi Annual Environmental Monitoring Report for the period July- December 2022 under both the loans.

This is for favour of your kind information.

Encls: As stated above.

Yours sincerely



Project Director

Assam Urban Infrastructure Investment Program

Project Director
Assam Urban Infrastructure Investment Program
Ganeshguri, Guwahati-5

Revised Semi Annual Environmental Monitoring Report

ADB Loan Number 3624-IND

**IND: Assam Urban Assam Urban Infrastructure
Investment Program – Project2
Period Covered: January to June 2022**

January 2023

Prepared by Department of Housing and Urban Affairs, Government of Assam for Asian Development Bank

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Table of Contents

I. INTRODUCTION	4
A. Overall Project Description.....	4
B. Background and Context of the Report	5
C. Environment Performance Indicators, if any.....	5
II. IMPLEMENTATIONPROGRESS	7
A. Status of Subproject Under Project 2	7
B. Implementataion Arrangement.....	10
III. ENVIRONMENTAL ASSESSMENT AND REVIEW PROCEDURE.....	11
A. Environmental Legal Requirement.....	11
B. Compliance with Environmental Legal Requirement.....	12
C. Compliance of Safeguard Loan Covenants	14
D. Compliance Status With the Environmental Management and Monitoring Plan.....	16
IV. ENVIRONMENTAL MONITORING AND EVALUATION	30
V. CONSULTATIONS AND DISCLOSURE CONDUCTED	32
VI. GRIEVANCE REDRESS MECHANISM	32

LIST OF TABLES

Table No.	Contents	Page No.
Table 1	Status of Sub-project Awarded/Implementation under Project 2	7
Table 2	Physical Progress of the sub-projects awarded under Project 2	9
Table 3	Details of AUIIP PMU and PIUs	10
Table 4	Environmental Legal Requirements Applicable to AUIIP	11
Table 5	Status of Compliance with National and State Legal Requirements	12
Table 6	Compliance to Loan Agreements (Environmental Safeguards)	14
Table 7	Compliance of EMP and OH&S Norms. Package: DTP drain outfall, secondary drainage and allied work in Dibrugarh	18

Table No.	Contents	Page No.
Table 8	Performance Fact Sheet for EMP Implementation of Project 2 AUIIP	31
Table 9	Consolidated Table of Consultation	32

LIST OF FIGURES

Figure 1: Key Plan for DTP and Secondary Drain Dibrugarh.....	8
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LIST OF APPENDICES

Appendix No.	Contents	Page No.
1	Photo Illustration	34
2	Sample PUC certificate for vehicle& equipment	35
3	Labour License	36
4	Photographs of Public Consultation and signature sheet	37

ABBREVIATIONS

ADB	-	Asian Development Bank
AUIIP	-	Assam Urban Infrastructure Investment Program
APCB	-	Assam Pollution Control Board
AUWSSB	-	Assam Urban Water Supply and Sanitary Board
CTE	-	Consent to Establish
CTO	-	Consent to Operate
DFO	-	Divisional Forest Officer
DHUA		Department of Housing and Urban Affairs
DMB	-	Dibrugarh Municipal Board
DMSC	-	Design Management and Supervision Consultant
DSC	-	Design & Supervision Consultant
DTP	-	Dibrugarh Town Protection
EARF	-	Environmental Assessment and Review Framework
EC	-	Environmental Clearance
EIA	-	Environmental Impact Assessment
EM	-	Environment Monitoring
EMP	-	Environmental Management Plan
GDD	-	Guwahati Development Department
GMC	-	Guwahati Municipal Corporation
GMDA	-	Guwahati Metropolitan Development Authority
GRM	-	Grievance Redress Mechanism
IEC	-	Information, Education and Communication
IEE	-	Initial Environmental Examination
LOA	-	Letter of Acceptance
LOI	-	Letter of Intent
MFF	-	Multi Tranche Financing Facility
NABET	-	National Accreditation Board for Education and Training
NOC	-	No Objection Certificate
NTP	-	Notice to Proceed
PD	-	Project Director, AUIIP
PHED	-	Public Health Engineering Department
PIU	-	Project Implementation Unit
PMC	-	Project Management Consultants
PMU	-	Project Management Unit
PPMS	-	Project Performance Monitoring System
PUC	-	Pollution Under Control
SPPTS	-	Support project program and Technical Assistance
SPS	-	Safeguards Policy Statement, 2009
STP	-	Sewage Treatment Plant
SWM	-	Solid Waste Management
TL	-	Team Leader
TOR	-	Terms of Reference
DTL	-	Dy. Team Leader
UDD	-	Urban Development Department
WO	-	Work Order
WTP	-	Water Treatment Plant

I. INTRODUCTION

A. OVERALL PROJECT DESCRIPTION

1. Asian Development Bank (ADB) has approved the Assam Urban Infrastructure Investment Program (AUIIP), a \$200 million Multi-Tranche Financing Facility (MFF) on 20th September 2011, to improve water supply of South Guwahati East Zone¹ as well as drainage and solid waste management (SWM) of Dibrugarh.² AUIIP will also provide support for ongoing urban reforms and associated capacity development for improved service delivery, urban governance and financial management in Guwahati and Dibrugarh. Loan 2806-IND: AUIIP-Tranche1 for \$81 million was approved on 18 November 2011; signed on 9 March 2012 and declared effective on 25 April 2012. In March 2014, \$20 million and in September 2016, \$10 million of Tranche 1 was cancelled and reallocated to the MFF pool. After, that Tranche 1 (Project 1) stands at \$51 million. The original loan closing date was 30 June 2018. The loan closing date has been extended till 29 June 2021. Presently Project 1 is under implementation. Loan 3624, Project 2 for \$26 million was approved on 13 December 2017, signed on 8 March 2019 and declared effective on 24 May 2019. The loan closing date for Project 2 was 29 June 2021 which was further revised to 30th September 2021. The extension of completion time period up to 20.01.2023 has been granted to carry out the balance work of Tranche 2, Dibrugarh.

2. Two contract packages awarded under Project 2 (Loan 3624) namely, (i) Dibrugarh drainage (\$32 million with \$22.4 million ADB financing) and (ii) Design, Management and Supervision Consultant (DMSC) (\$5.2 million with \$3.64 million ADB financing) and are being funded through Loan 3624 for an amount of \$26.04 million.

3. Project 2 contains only one sub project i.e., Construction of DTP drain outfall, secondary drainage, and allied works at Dibrugarh.

4. The executing agency is Department of Housing and Urban Affairs (DHUA). The Project Management Unit (PMU) in Guwahati and respective Project Implementation Units (PIUs) have been established in Guwahati and Dibrugarh. Initially, Project Management Consultants (PMC) and Design and Supervision Consultants (DSC) were mobilized under Tranche 1 (Project 1) to assist the PMU and PIUs. However, in the third quarter of 2016, the PMC had withdrawn their services from AUIIP and DSC's contract was lapsed on 30th May 2018 after extension of their contract for three months. In the month of October 2018, GKW Consult GmbH in association with Vision EIS Consulting Pvt. Ltd. has been awarded the contract for the Design, Management and Supervision Consultancy (DMSC) and the contract expired 30.09.2021.

5. The primary objective of the program is to formulate and implement a roadmap that helps national and state-level targets for water supply in Guwahati and storm water drainage and SWM facility in Dibrugarh.

6. **Outputs of the Project:** The major key outputs are as follows:

- Improvement water supply infrastructure in Guwahati

¹Guwahati has been divided into four water supply zones; one north of the Brahmaputra river and three to the south. In south Guwahati, the west zone is being financed under Jawaharlal Nehru National Renewal Mission (JNNURM), the central zone by Japan International Cooperation Agency (JICA), and the east zone has been identified for ADB assistance.²Dibrugarh suffers from prolonged local flooding during the annual monsoon. Because of the lack of sewerage and inadequate solid waste management much of the areas in the city's drainage system becomes choked and severely polluted with un-treated wastewater.

- Improved SWM infrastructure in Dibrugarh
- Improved drainage in Dibrugarh
- Enhanced capacity building

7. Outcomes:

- Improved access to Urban infrastructure
- Reduced flooding
- Environmental sustainability
- Gender main streaming

B. BACKGROUND AND CONTEXT OF THE REPORT

8. **Environmental Categorization:** Sub project under AUIIP **Project 2** has been categorized as ADB Category B for environment as per ADB Safeguard Policy (SPS 2009), and accordingly Initial Environmental Examination (IEE) report was prepared and which approved by the ADB.

9. Environmental Monitoring Plans (EMP) which addresses the potential impacts and risks identified by respective environmental assessments of each sub-project are included in the IEE reports. The level of complexity of the EMP and the priority of the identified measures and actions commensurate with the sub projects' impact and risks. The EMP is a part of bidding and contract documents.

10. The Semi-Annual Environmental Monitoring Report presents the status of sub project implementation, details of compliance with environmental regulations of the Government and policies of ADB, details of compliance with environmental loan covenants, details of complaints received and their redressal and the status of compliance with various aspects of EMP as stated in the IEE reports.

11. This report consists of the following content:

- Status of Subproject;
- Compliance of Safeguard Loan Covenants;
- Implementation Arrangement;
- Environmental Legal Requirement;
- Compliance with Environmental Legal Requirements;
- Compliance status with the environmental management and monitoring plan;
- Environmental monitoring and evaluation;
- Consultations and disclosures conducted;
- Grievance redress mechanism;
- Findings and recommendations;
- Appendix

C. ENVIRONMENT PERFORMANCE INDICATORS, IF ANY

12. For effective monitoring, selected environmental parameters have been identified as indicators which may be qualitatively and quantitatively measured and compared over a period of time in order to assess/ ensure the compliance to the Environmental Management Plan (EMP) of subproject. The environmental performance indicators selected are physical, biological and social characteristics identified as most important in affecting the environment at critical

locations all along the sub project corridors. The parameters identified as performance indicators are:

- Compliance with environmental management and monitoring plan;
- Compliance to State/ National environmental regulations; and
- Monitoring of ambient air quality, water quality, silt quality and noise levels and comparison with baseline environmental quality and State/ National Standards.

II. IMPLEMENTATION PROGRESS

A. STATUS OF SUBPROJECT UNDER PROJECT 2

13. Project 2 contains only one sub project on Storm Water drainage in Dibrugarh.
14. **Table 1** shows the status of subproject under Project 2 and the works of the package as of January-June'2022 period.
15. The package "secondary drainage and outfall for Dibrugarh DTP" was awarded in Oct 2016 to M/s Gannon Dunkerly & Co.
16. Package location map is shown in **Figure 1**.
17. Physical Progress of the sub-project awarded under Project 2 is shown in **Table2**. **Appendix 1** shows photographic illustration of the said package under implementation.

Table 1: Status of Sub-project Awarded/Implementation under Project2

Town	Package No.	Components	Status- up to June 2022
Strom water Drainage Subproject			
Dibrugarh	AUIIP/PR-2/DIB/DR-02	Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh	<p>Contract awarded on 1st Oct 2016. Contract commenced on 18th March 2019 (after issue of NTP) and will be completed by 17th march 2022 as per contract agreement.</p> <p>The ADB loan closure date was 30th September 2021. Then The extension of completion time period up to 20.01.2023 has been granted to carry out the balance work. So, the remaining spills over works are undergoing and the cost will be beared by the State Government.</p> <p>Currently work is under progress- The overall physical progress till end of reporting period was 86.365 %</p>

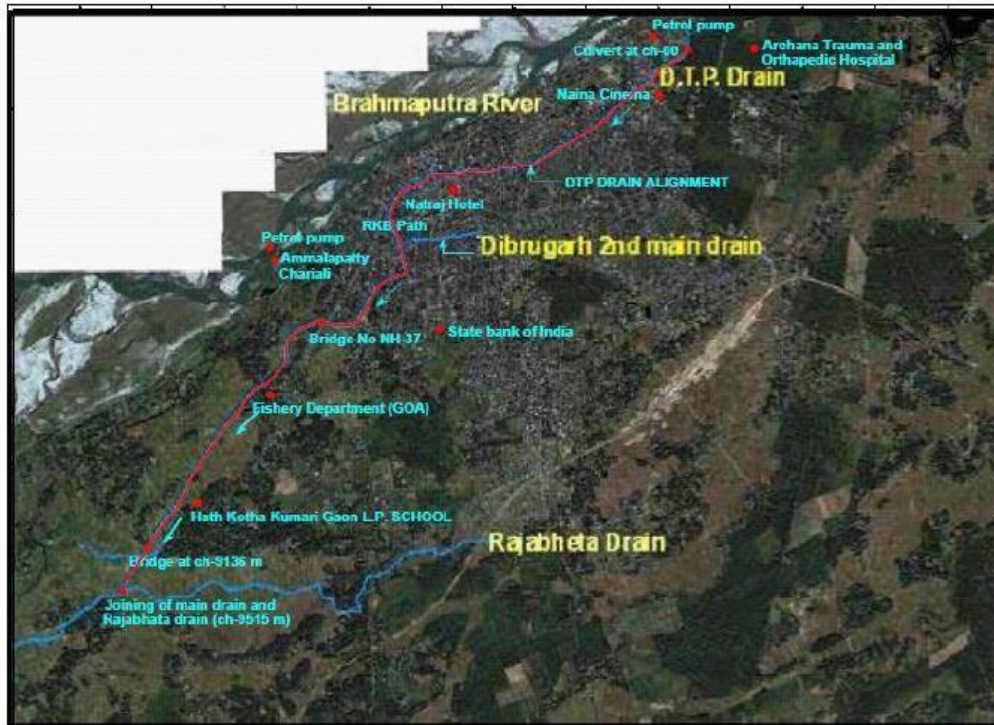


Figure 1: Key Plan for DTP and Secondary Drain Dibrugarh

Table 2: Physical Progress of the sub-projects awarded under Project 2

Sl. No.	Component of the Project & Package Ref No.	Name of the Contractor	Contract value in INR	Starting date of Implementation	Schedule date of completion (Extended date of completion)	Contract period in months/days	Work completed till 30 th June 2022	Cumulative Physical progress (%) as on 30.06.2022
1	Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh (AUIP/PR-2/ DIB/ DR-02)	M/s Gannon Dunkerley & Co. Ltd.	212.44 Crore	Notice to Proceed NTP issued 18.03.2019	Expected completion date is 20.01.2023 to carry out the balance work	1095 days or 36 months	<ul style="list-style-type: none"> Excavation – 1249544.04 cum completed as per scope Geo-textile fibre placing 161597.35 sq.m completed, Embankment construction from roadway cutting 98491.04 cu.m, rest under progress Boulder pitching, RCC panels, launching apron, top end gabion done. Boulder pitching done for 127673.663 cu.m .RCC work 368.97 cu.m completed and PCC work 8906.137 cu.m completed. Filter media completed for 32312.47 cu.m Work completed in Paltan Bazar Road Drain, Aaunatisatra to Rajabheta Main Drain, Jail Road Main Drain to NH 37, Red Cross road Drain to NH 37, WRD Office Drain Paltan Bazar to India Gas Agency Culvert, WRD Office Drain Paltan Bazar to Shiv Temple Tiniali, Police Reserve Drain (Internal), D.C. Office Drain (Internal), Lakhi Nagar Drain, Padum Nagar and Hatimora Drain Beel area development: completed 	86.365 %

B. IMPLEMENTATION ARRANGEMENT

18. The Government of Assam's DHUA (earlier it was Guwahati Development Department) is the executing agency. PMU has been established to manage AUIP through PIUs, one each in Guwahati and Dibrugarh. The PMU functions as the implementing agency for project administration and coordination and monitor all the project implementation activities with a focus on performance and achievement of results. PMU reports to the Empowered Committee (the Committee) of the Government of Assam headed by the Chief Secretary, who is responsible for the project results on behalf of Government of Assam. The PIUs are responsible for the day-to-day activities of project implementation in the field and will be under the direct administrative control of the PMU. **Table 3** shows the contact details of the PMU and PIUs.

Table 3: Details of AUIP PMU and PIUs

Designation	Name and Contact Details
PMU, Project Director	Name: Md. Nawab Al Azhar Ali, ACS Office Address: Assam Urban Infrastructure Investment program Tripti Towers, 3 rd Floor, Ganeshguri, Guwahati-781005 Phone: 0361-2529839, Email: pmu.auiip@assam.gov.in
PIU Guwahati, Senior Project Officer (Additional Program Manager i/c)	Name: Mr. Joydeep Bhuyan Office Address: Assam Urban Infrastructure Investment program Tripti Tower, 3 rd Floor, Ganeshguri, Guwahati-781005 Phone: 0361-2529839, 70021 07299, Email: piu.auiip@gmail.com
PIU Dibrugarh, Additional Program Manager (i/c)	Name: Mr. Diganta Mili Office Address: Assam Urban Infrastructure Investment program. Leela Gogoi Path, Milan Nagar, Mancota Road P.O. – C.R. Building, PIN- 786003, Dist- Dibrugarh. Phone: 8474863470, Email: piu.dibrugarh@gmail.com

19. PMU and PIU Safeguard officers: The Safeguards compliance officer at the PMU has resigned in June 2018 and following this, the Resettlement Specialist and Environment Officer from PIU, Guwahati were transferred to PMU, Guwahati with effect from July 2018 and the PIU in Guwahati the said positions are vacant with no safeguard officers. The PIU Resettlement Specialist is in place in Dibrugarh and the Resettlement Specialist has additional responsibility to implement the Environment Safeguard Policies. However, the Resettlement Specialist and Environment Officer PMU, Guwahati have resigned and at present these two posts are vacant.

20. In the month of October 2018 GKW Consult GmbH in association with Vision EIS Consulting Pvt. Ltd. has been awarded the contract for the Design, Management and Supervision Consultancy (DMSC) which got expired on 30.09.2021.

III. ENVIRONMENTAL ASSESSEMENT AND REVIEW PROCEDURE

A. ENVIRONMENTAL LEGAL REQUIREMENT

21. The following Regulations detailed in **Table 4** are currently in force in India that deals with environmental issues that could apply to infrastructure development.

Table 4: Environmental Legal Requirements Applicable Tranche 2 of AUIP

Component	Applicable Legislation	Compliance	Action Required for AUIP Subprojects
1. All components that require acquisition of forest land and Tree felling	Forest (Conservation) Act 1980; Wildlife (protection) Act 1972	Approval from State Principal Chief Conservator of Forest and Ministry of Environment, Forests and Climate change, Government of India Approval from DFO, Assam/ Concerned Dept. in case of Tree felling	
2. Establish of Batching plant, hot mix and wet mix plant	Air (Prevention and Control of Pollution) Act, 1981, amended 1987 and its Rules, 1982	CTE and CTO for batching plant, hot mix and wet mix plant	The CTO has been obtained for batching plant from Assam Pollution Control Board and validity till 31.03.2022.

B. COMPLAINT WITH ENVIRONMENTAL LEGAL REQUIREMENT

22. The following Table shows the regulatory requirements of subproject/components under Project 2 and the present status of compliance. At present work continued for the package "Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh (AUIP/PR-2/ DIB/ DR-02)"

Table 5: Status of Compliance with National and State Legal Requirements

Town	Package No.	National and State Legal Requirement	Clearances given by and Date	Conditions of the Clearance/NOCs
Dibrugarh	Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh (AUIP/PR-2/ DIB/DR-02)	Forest (Conservation) Act 1980- For tree felling;	<p>Following set of trees have been identified along the project stretch:</p> <ul style="list-style-type: none"> ➤ 84 trees (41 in DTP outfall and 43 in secondary drain): Requisite permission for cutting of trees has been obtained from the Forest Department. <p>During design finalization, 43 number of trees have been saved (for DTP Outfall) and only 41 number of trees are required to be cut for the secondary drain (NOC was attached in the earlier SEMR).</p> <p>As of now 34 are already cut after obtaining the requisite permission.</p> ➤ 44 trees (Paltan Bazar- Left Secondary Drain): The construction work for this portion of drain was not carried out till end of 	No condition given.

Town	Package No.	National and State Legal Requirement	Clearances given by and Date	Conditions of the Clearance/NOCs
			<p>the reporting period. The NOC would be obtained from DFO, Dibrugarh after making payment for the 44 nos. trees and commencement of work would be undertaken after obtaining the requisite permission.</p> <ul style="list-style-type: none"> ➤ 19 trees (Paltan Bazar RHS Police Reserve Hatimora): NOC has been received from the Forest Department, Dibrugarh (NOC was attached in SEMR July-December'21) ➤ 6 trees (Hatimora Secondary Drain). NOC has been received from the Forest Department, Dibrugarh (NOC was attached in SEMR July-December'21) 	Tree cutting has been completed and the conditions given in the NOC were followed.
		<p>Air (Prevention and Control of Pollution) Act, 1981, amended 1987 and its Rules, 1982.- For establish of hot mix, wet mix and batching plant</p>	<p>The previous CTO of batching plant has been renewed from Assam Pollution Control Board and validity till 31.03.2022. (CTO was attached in the earlier SEMR).</p>	Compliance of condition Was attached in SEMR July-December'21.

C. COMPLIANCE OF SAFEGUARD LOAN COVENANTS

23. The loan agreement for AUIP **Project 2** was signed on 8th March 2019 and is available on ADB website (<https://www.adb.org/sites/default/files/project-documents/42265/42265-025-Ina-en.pdf>). **Table 6** provides a summary of compliance to the loan covenants related to environmental safeguards.

Table 6: Compliance to Loan Agreements (Environmental Safeguards)

Serial No. as per Loan Agreement	AUIP Project 2 Specific Covenants	Status/Issues
Environment		
Schedule 5, para 10 (Project 2)	The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or preventative actions set forth in the Environment Monitoring Report.	Being Complied <ul style="list-style-type: none"> - Environmental safeguard documents⁴ are prepared in accordance with the requirements of relevant national and state laws, ADB SPS 2009 and EARF. - Draft IEE was prepared during project preparation and finalized after the finalization of detailed design. The final IEE was submitted to ADB and approved. - For Dibrugarh Storm Water Drainage Subproject - IEE has been included in the bid and contract document to ensure measures and requirements set forth in the IEE, specifically the EMP. <p>Site specific EMP prepared</p> <p>-- Regular submissions of SEMRs are done to ADB for review and disclosure in its website.</p>
Human and Financial Resources to Implement Safeguards Requirements		
Schedule 5, para 14 (Project 2)	The Borrower shall cause the State to make available necessary budgetary and human resources to fully implement the EMPs, the RPs and any IPP	Being Complied <ul style="list-style-type: none"> - As per implementation arrangement for environmental safeguards, PMU & PIU's Safeguard Officials except at Dibrugarh and DMSC Environment Specialists were present till the Loan Closing Period. At present the Safeguard Officials post are vacant in both PIU and PMU. At present the Resettlement Specialist, PIU, Dibrugarh has additional responsibility to implement environmental safeguard policy. - PMU and PIUs have allocated its counterpart funds to ensure implementation of subproject EMPs. The construction contractor has allocated necessary budget to implement mitigation measures and

⁴IEE following ADB SPS was prepared based on design for AUIP Project 2 subproject.

Serial No. as per Loan Agreement	AUIIP Project 2 Specific Covenants	Status/Issues
		monitoring program as required in the IEE. Tentative budgets for each contractor were provided in SEMR July December'21.
Safeguards – Related Provisions in Bidding Documents and Works Contracts		
Schedule 5, para 15 (Project 2)	<p>The Borrower shall cause the State to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures and requirements relevant to the contractor set forth in the IEEs, the EMPs, the RPs and any IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;</p> <p>(b) make available a budget for all such environmental and social measures;</p> <p>(c) provide the PMU with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs or any IPP;</p> <p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>	<p>Being Complied</p> <p>(a) IEE and specific provisions related to mitigation measures and environmental monitoring are included in the bidding and contract document.</p> <p>(b) The budgets for the Environment, Health and Safety have been appended as Tentative budgets for each contractor were attached in SEMR July-December'21.</p> <p>(c) No unanticipated environmental, resettlement or indigenous people's risks or impacts.</p> <p>Being Complied</p> <p>(d) Record of conditions of roads, agricultural land and other infrastructure are not yet submitted by the contractor.</p> <p>Not yet applicable.</p> <p>(e) Reinstatement of pathways, pathways, other local infrastructure, and agricultural land to at least their pre-project condition for the package is not yet required</p>
Safeguards Monitoring and Reporting		
Schedule 5 para 16 (Project 2)	<p>The Borrower shall cause the State to do the following:</p> <p>(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p>	<p>Being Complied</p> <p>(a) This is 6th Semi-annual Safeguards Monitoring Report for Tranche 2. For any non-compliance related to ADB Safeguard policy or national</p>

Serial No. as per Loan Agreement	AUIP Project 2 Specific Covenants	Status/Issues
	<p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs or any IPP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) Report any breach of compliance with the measures and requirements set forth in the EMPs, the RPs or any IPP promptly after becoming aware of the breach.</p>	<p>regulations, corrective action plans are prepared and included in monitoring report.</p> <p>(b) No unanticipated environmental risks or impacts.</p> <p>(c) Till date there is no breach of compliance</p>
Labor Standards		
Schedule 5 para 19 (Project 2)	<p>The Borrower shall cause the State to ensure that Works contracts 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; (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; and (iii) maximize employment of women and local poor and disadvantaged persons for construction purposes, provided that the requirements for efficiency are adequately met. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.</p>	<p>Being Complied</p> <p>(i) H&S training has been made mandatory for workers prior to mobilization in worksites. These trainings also include specific HIV/AIDS awareness programs which are conducted among the laborers in all sites by the contractor. COVID 19 awareness training to be conducted on regular basis.</p> <p>(ii) IEEs include provisions on strict implementation of applicable labor laws in the EMPs.</p> <p>(iii) Contractors are encouraged to employ women and local poor and disadvantaged persons</p>

D. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

24. This section presents the compliance status of Environmental Management and Monitoring Plans of different subproject under implementation. Under Project 2, the only package "Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh (AUIP/PR-2/ DIB/ DR-02)" is in progress. The construction of secondary drainage has been completed. Photographs of ongoing construction work of DTP Drain and environmental management measures are presented in **Appendix 1**. The contractors follow the Environmental Monitoring Plan (EMP), which is part of the IEE and Contract document.

25. Site Specific Environment Management Plan (SEMP) has been developed by contractor. That Site specific EMP is attached in earlier SEMR.

26. A reporting format filled up by the Contractor on a daily basis on compliance with SEMP has been issued and they are being compiled on a monthly basis. Monthly, daily environment monitoring reports are available with PMU, PIU and DMSC.

27. In addition to desk reviews and site inspections, monitoring of selected environmental parameters have been conducted during the reporting period. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. For the current working subproject under **Project 2**, the parameters need to be monitored are ambient air quality, noise levels, silt/ sludge quality and water quality. The contractor has not been carried out monitoring of the above-mentioned parameters till the reporting period.

28. Compliance on EMP and Environment, Health Safety Norms for package is shown in Table7. Since it is the time of end of the project. So, all the related information of construction site is not getting in details and the available information are presented in the table.

29. For implementation of EMP, arrangement of human safety, provision of PPE for workers engaged in construction is being implemented. Training is being provided to the contractor by DMSC's Environment Specialist. Moreover, instruction is given to contractors to follow the specified clause of BID document to mitigate environmental and social impacts.

30. The contractor whose work requires environmental implementation has been instructed to submit their environmental management plan for approval. Environment Management Plan as submitted by the contractor are scrutinized and checked, wherever necessary environment criteria required is added.

31. Construction contractor provides all necessary safety arrangement for individual safety and construction site, for individuals they provide all type of PPE like Safety Vest, Safety Helmet, Hand Gloves, Safety Shoes and respiratory mask. At work site use of PPEs is improved. For further improvement awareness about need of full use of PPE among the laborers especially with risk nature of the worksite job and type of PPE used for such type of jobs required.

Table 7: Compliance of EMP and OH&S Norms. Package: DTP drain outfall, secondary drainage and allied work in Dibrugarh (AUIP/PR-2/ DIB/ DR-02)

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
1.	Sources of Materials (i) Use quarry sites and sources permitted by government; (ii) Verify suitability of all material sources and obtain approval of Investment PMU/PIU; (iii) If additional quarries will be required after construction has started, obtain written approval from PMU/PIU; and; (iv) Submit to DMSC on a monthly basis documentation of sources of materials.	Material source site	Contractor	Visual observation	DMSC, PIU	<ul style="list-style-type: none"> Construction material are collected from licensed source in compliance with Environmental regulation of the country.
2	Air Quality (i) Consult with PMU/PIU/DMSC on the designated areas for stockpiling of construction materials; (ii) Carry out air quality monitoring; (iii) Damp down exposed soil and any stockpiled at site by spraying with water when necessary, during dry weather; (iv) Use tarpaulins to cover sand and other loose material when transported by trucks; and (v) Fit all heavy equipment and machinery with air pollution control devices which are operating correctly.	Working site	Contractor	Visual observation	DMSC, PMU, PIU	<ul style="list-style-type: none"> Material and wastes are located at secure/designated locations. Air quality monitoring has not been carried out during the period of January-June'2022. Water sprinkling continued as per requirement The PUCs are submitted by contractor. Appendix 2 shows sample copy of PUC

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
3	Traffic Management Traffic flow to be avoided during construction.	Working site	Contractor	Visual observation and compliance to traffic management plan.	DMSC, PIU	<ul style="list-style-type: none"> Contractor has implemented the traffic management measures at the construction site as per requirement and makes sure that the traffic is not significantly impeded during construction period (Photograph in Appendix1) Traffic Management plan submitted; by the contractor and that copy was included in last SEMR.
4	Surface water Quality (i) Avoid stockpiling of dredged silt/ sludge especially during the monsoon season unless covered by tarpaulins or plastic sheets. (ii) Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PMU/PIU/DMSC on designated disposal areas; (iii) Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; (iv) Place storage areas for fuels and lubricants away from any drainage leading to water bodies; (v) Dispose any wastes generated by construction activities in designated sites-preferably for landfill site development and (vi) Conduct surface quality	Working site	Contractor	Laboratory Test and visual observation and compliance to spoil management plan.	DMSC, PMU, PIU	<ul style="list-style-type: none"> Slit/ sludge mostly covered by tarpaulins or plastic sheets. Excess spoils and materials for the construction works disposed as per spoil management plan. Spoil Management plan prepared by the contractor and NOC was obtained for disposal land (Ref earlier SEMR). Fuel and lubricants are stored as per norms and kept away from water contact. Surface water quality monitoring during construction have been completed in July and September 2021. All testing certificates are available with PIU and DMSC as back up.

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	inspection according to the Environmental Management Plan.					
5	Noise Quality (i) Plan activities in consultation with PMU/ PIU/ DMSC so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance (ii) Require horns not be used unless it is necessary to warn other road users of the vehicle's approach; (iii) Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor, (iv) Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s; and (v) Carry out noise level monitoring	Working site	Contractor	Monitoring report	DMSC, PMU, PIU	<ul style="list-style-type: none"> Workers are using earmuffs near high noise producing area, particularly during operation of equipment. For minimizing noise from construction equipment, vehicle silencers are used. Noise level monitoring during construction has not been carried out during the period of January-June'2022. Activities with high noise potential are not conducted during night time.
6	Ecological resources – Terrestrial (i) Minimize removal of vegetation and disallow cutting of trees; (ii) Approx. 84 nos. of tree	Working site	Contractor	Visual observation	DMSC, /PIU	<ul style="list-style-type: none"> Tree felling has been done after receiving of requisite permission from the Forest Dept. Contractor have provided LPG

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	feeling will be required, obtain tree cutting permit from forest and environment dept., (iii) Require to plant three (3) native trees for every one (1) that is removed; and (iv) Prohibit employees from cutting of trees for firewood					gas for cooking to avoid tree cutting for firewood
7	Existing infrastructure and Facilities (i) Obtain from PMU/PIU/DMSC the list of affected utilities and operators if any; (ii) Prepare a contingency plan to include actions to be done in case of unintentional interruption of service decided.	Working site	Contractor	Visual observation	DMSC, PIU	<ul style="list-style-type: none"> Excavation of DTP drain is continued outside the city area, there is no as such infrastructure.
8	Disposal sites of dredged sludge and solid wastes Dispose dredge and solid waste at pre-identified agreed upon sites (e.g., existing dumpsites or use for development of landfill) away from sensitive receptors. Physico-chemical testing will be required before disposal.	Drain Site	Contractor	Visual observation and testing record	DMSC, PIU	<ul style="list-style-type: none"> Excavated soil from DTP drain outfall is used at site along the drain for construction of embankment. Testing has been done on a regular basis for sludge and NOC received for disposal of sludge. (Ref. earlier SEMR)
9	Landscape and Aesthetics (i) Prepare and implement Waste	Drain Site	Contractor	Visual observation and document checking	DMSC, PMU, /PIU	<ul style="list-style-type: none"> Adequate storage facilities are provided at the work sites to

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	<p>Management List;</p> <p>(ii) Avoid stockpiling of excess excavated soils; and</p> <p>(iii) Coordinate with DMB for beneficial uses of dredged silt or immediately dispose to designated areas (specifically use for development of landfill;</p> <p>(iv) Recover used oil and lubricants and reuse or remove from the sites;</p> <p>(v) Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas.</p> <p>(vi) Remove all wreckage, rubbish; and</p> <p>(vii) Request PMU/ PIU/ DMSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work</p>					<p>store the stockpiles. Early disposal ensured by construction contractor</p> <ul style="list-style-type: none"> Construction wastes are reused wherever possible. Disposable wastes from camp and work site are collected by the municipality. Spoil Management plan has been prepared and under implementation. Oil & Lubricants are stored as per standard norms and at secured place. Waste burned oil will be removed from site and handed over to registered waste oil recycler All scrap materials disposed from construction site
10	<p>Accessibility</p> <p>(i) Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites;</p> <p>(ii) Schedule transport and hauling activities during non-peak hours;</p> <p>(iii) Locate entry and exit points in areas where there is low potential for traffic congestion;</p>	At all work sites	Contractor	<p>Visual observation and compliance to traffic management plan.</p> <p>Record of Complaints from sensitive receptors;</p> <p>Number of signages placed at subproject location</p>	DMSC, PIU	<ul style="list-style-type: none"> Contractor has prepared Traffic Management Plan (TMP) and same has been implemented as per requirement Caution board is placed at working location. Diversion board and road closure board are placed. Transportation done during non-peak hours. In case of road closure,

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	(iv) Keep the site free from all unnecessary obstructions; (v) Drive vehicles in a considerate manner; (vi) Coordinate with Dibrugarh Traffic Office for temporary road diversions and with for provision of traffic aids if transportation activities cannot be avoided during peak hours; (vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. (viii) Provide planks across drains in front of businesses, and ensure works are completed quickly to avoid disruption, and (ix) Avoid full street closure					diversion permission is obtained from Traffic and Police dept. <ul style="list-style-type: none"> • Metal sheets or wooden planks are provided at work sites for maintaining access and as per requirement • There are no notified sensitive receptors within the working area. • During construction period, as and when required, half of the road is kept open for local traffic.
11	Socio-Economic-Income (i) Leave spaces for access between mounds of soil; (ii) Provide walkways and metal sheets where required for people; (iii) Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools. (iv) Consult businesses and	Drainage work site	Contractor	Observation of records / complaints from sensitive receptors; availability of walkways, signages	DMSC, PIU	<ul style="list-style-type: none"> • Walkways are provided for the people as per requirement. • Signage boards and caution tapes are provided. • Presently there are no business establishments nearby. • Labour intensive construction measures are used where appropriate and local labours are employed wherever it is possible.

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	institutions regarding operating hours and factoring (v) 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.					<ul style="list-style-type: none"> Tool box talk is done by the safety officer of the contractor.
12	Socio-Economic –Employment (i) Generation of contractual employment and increase in local revenue.	Drainage work site	Contractor	Observation on, (i) Employment records; (ii) records of sources of materials	DMSC/ PIU	Yes, more than 50% local people are employed at site. Employment records are available
13	Occupational Health and Safety (i) Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose mask and ear plugs; (c) H&S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; (ii) Ensure that qualified first- aid	DTP Drain and Secondary drain Site, camp site	Contractor	Compliance to respective Health and Safety plan Visual observation and reports.	DMSC/PIU	<ul style="list-style-type: none"> Site specific health and safety plan and COVID 19 H & S plan have been prepared and available at site. First aid box has been provided at working locations For any incident, accident reports are maintained at site. During reporting period there are no first aid cases reported. Medical insurance coverage is provided by contractor. Portable drinking water is provided to workers at work site and camp H&S orientation training including COVID 19 awareness program is conducted for all

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	<p>can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the site;</p> <p>(iii) Provide medical insurance coverage for workers;</p> <p>(iv) Secure all installations from unauthorized intrusion and accident risks.</p> <p>(v) Provide supplies of potable drinking water;</p> <p>(vi) Provide clean eating areas where workers are not exposed to hazardous or noxious substances</p> <p>(vii) Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers.</p> <p>(viii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s donot enter hazard areasunescorted;</p> <p>(ix) Ensure the visibility of workers through their use of high visibility vests when working in or walking through</p>					<p>new workers and ensured that they are apprised of the basic site rules of work at the site, using personal protective protection, and preventing injuring to fellow workers (Records are available with PMU). Use of PPE noted. Review and safety meeting arranged for the contractor.</p> <ul style="list-style-type: none"> Workers are provided with high visibility safety jackets while working in areas with high traffic movement. The working site does not have area where hazardous condition or substances may be present. DTP drain work site at isolated location. Caution tapes are provided at secondary drainage location within the city. Improvement is required; instruction has been given to contractor. Sign boards are provided at working site. There are no as such hazardous areas.

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	<p>heavy equipment operating areas;</p> <p>(x) Ensure moving equipment is outfitted with audible back- up alarms;</p> <p>(xi) 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; and</p> <p>(xii) Disallow worker exposure to noise level greater than 85 dBA for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively</p>					
14	<p>Community Health and Safety.</p> <p>(i) Plan routes to avoid times of peak-pedestrian activities</p> <p>(ii) Liaise with PMU/PIU/DMSC in identifying high-risk areas on route cards/maps.</p> <p>(iii) Maintain regularly the vehicles and use of manufacturer-</p>	Drainage work site	Contractor	Site observation, record of public complaints, observation on traffic management plan	DMSC, PIU	<ul style="list-style-type: none"> Traffic Management Plan has been prepared for controlling traffic movement at work site. Regular maintenance of the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	<p>approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.</p> <p>(iv) Provide road signs and flag persons to warn.</p> <p>(v) Provide protective fencing around drain, and cover any open trench with metal planks during non- construction hours. potentially cause soil contamination</p>					<p>failure.</p> <ul style="list-style-type: none"> Flag men have been engaged as per requirement and road signs to be provided to avoid traffic congestion. Protective fencing partially provided around drain, and any open trench with metal planks during non- construction hours to be covered to avoid causesoil contamination
15	<p>Core labor standard (CLS) safety and compliance.</p> <p>(i) Any kind occupational health impacts on the health of labour to be avoid.</p> <p>(ii) Child labour and forced labour to be prohibited</p> <p>(iii) Equal pay to be provided irrespective of gender ethnicity and caste.</p>	For entire project	Contractor	Visual observation and employee record. Periodic medical Examination report.	DMSC, PIU	<ul style="list-style-type: none"> Contractors have a labour License to employ more than 100 employees valid till 03.03.2023 (Appendix 3). Tie up with health institution is available (document was attached in the earlier SEMR).Medical Examination for the workers has not been done during report period under COVID pandemic situation Child labour and forced labour are not considered Equal pay is provided
16	<p>Office work site camp storage sites</p> <p>(i) Consult PMU/PIU/DMSC before locating project offices, sheds, and construction plants;</p> <p>(ii) Minimize removal of</p>	At drainage work site, office and camp sites	Contractor	Visual observation on complaints from sensitive receptors, Water and sanitation facilities for employees	DMSC, PIU	<ul style="list-style-type: none"> Site office is constructed at the project site Jamirah with permission of PIU. Adequate water and sanitation facilities are provided at that site. Toilets are provided at

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	vegetation and disallow cutting of trees; (iii) Provide water and sanitation facilities for employees; (iv) Prohibit employees from cutting of trees for firewood; (v) Train employees in the storage and handling of materials which can potentially cause soil contamination; (vi) Recover used oil and lubricants and reuse or remove from the site; (vii) Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; (viii) Remove all wreckage, rubbish, or temporary structures (such as buildings, shelters, and latrines) which are no longer required; and (ix) Request PMU/PIU/DMSC to report in writing that the camp has been vacated and restored to pre-project conditions before acceptance of work			4		camp. Canteen is provided for all staff. Regular cleaning of toilet and maintenance is required. <ul style="list-style-type: none"> Waste management – storage and disposal of waste continued. Employees are prohibited from poaching wildlife and cutting of trees for fire wood. Instructions have been given. Adequate storage areas are provided at the work sites and workers are informed about the storage and handling of materials which can potentially cause soil contamination. Camp will be closed as per requirement. Cleaning will be done before acceptance of work
17	Social and Cultural Resources (i) Strictly follow the protocol for chance finds in any excavation work; (ii) Request PMU/PIU/DMSC or any authorized person with archaeological field training to	All site Working	Contractor	Visual observation	DMSC, PIU	<ul style="list-style-type: none"> Till date there are no socio-cultural resources reported nearby. Chance-find protocol will be maintained accordingly. Instructions provided to workers in this connection

Sl. No.	Mitigation Activates and Method	Location	Responsible for Mitigation	Monitoring method	Responsible for monitoring	Compliance status
	<p>observe excavation;</p> <p>(iii) Stop work immediately to allow further investigation if any finds are suspected; and</p> <p>(iv) Inform PMU/PIU/DSC if a find is suspected and take any action, they require ensuring its removal or protection in situ.</p>					

IV. ENVIRONMENTAL MONITORING AND EVALUATION

32. During the current reporting period, ambient air quality, noise levels, water quality, sludge/ drainage silt quality monitoring has not been carried out for ongoing packages of Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh AUIIP/PR-2/DIB/DR-02. Instruction has been given to contractor for regular testing of ambient air quality, noise levels, water quality, sludge/ drainage silt quality till completion of the construction.
33. All contractors have health and safety budget for implementation of EMP and monitoring of pollution parameters (The budget was provided with the earlier SEMR).
34. A performance monitoring fact sheet has been prepared to facilitate tracking and quick reference on environmental monitoring of **Project 2** package. (**Table 8**).

Table 8: Performance Fact Sheet for EMP Implementation of Project 2 AUIIP

	Package Number	Name of Contractor	EMP Part of contract Document (Yes / No)	Availability of HSE person	Overall Status of EMP Implementation	Field to be Monitored as per EMP												
						Source of Materials	Camp Sites	Landscape and Aesthetics	Air Quality	Noise Level	Traffic	Ecological Resources - Terrestrial	Accessibility	Water Quality	Occupational Health & safety	Community Health & safety	Socio cultural resources	Employment generation
						In compliance (2) / Partial Compliance (1) / Not in compliance (0) / Not applicable (n/a)												
1	AUIIP/PR-2/ DIB/ DR-02	M/s Gannon Dunkerley & Co Ltd.	Yes	Yes	Complied	2	2	2	0	0	2	n/a	2	0	2	1	n/a	2

Note calculation of numerical value for determining performance status- Calculation is based on addition of numerical value like below-

AUIIP/PR-2/ DIB/ DR-02 = Total score- 2+2+2+0+0+2+2+0+2+1+2= 21. Number of working fields =11, Then- 15/11=1.36- More than 1, complied

V. CONSULTATIONS AND DISCLOSURES CONDUCTED

35. As per approved IEE, consultations and disclosure will be a continuous process throughout project implementation involving public consultations and focus group discussions. Instruction has been given to contractor for arrangement of regular tool box training on HSE aspect.

36. During consultation following issues are discussed:

- Possible short-term impact- accessibility
- Disposal of soil/ spoil/ sludge
- Public safety arrangement
- Application of mitigation measures for control of dust and noise

37. The activities carried out for public consultation and public awareness, for the subprojects in Dibrugarh for the reporting period is given in Table 9. No community consultation was carried out for Guwahati sub projects as the site works are already completed. The photographs and signature sheets of public consultations conducted in Dibrugarh are in **Appendix 4**

Table 9: Consolidated Table of Consultation

Date	Place	Participants	Summery queries and responses
18.02.2022	Borpathar, DTP Drain - AUJIP/PR-2/DIB/DR-2	Total 11 persons were consulted including 11 females	<ul style="list-style-type: none">• Community appreciated construction work of DTP Drain by AUJIP. They have requested AUJIP for quick disposal of drainage sludge after desludging remove the sludge of DTP Drain before rainy season comes which may flow with rain water to the paddy field.• The community requested to provide employment to the local people.

VI. GRIEVANCE REDRESS MECHANISM

38. The grievance redress committee has been constituted on 1st July 2015 for Guwahati as well as for the Dibrugarh (notification was attached in the earlier SEMR).

39. The stakeholders are being informed about the Grievance Redress Mechanism (GRM) through public awareness campaigns. The project information leaflet has been prepared that contains information on the GRM, the contact phone number and address of the PIU. The PMU Environmental Specialist and Resettlement Specialist are responsible for processing and placing the all the papers before the GRC, maintaining the database of complaints, recording the decision, issuing minutes of the meetings and monitoring that decision are implemented. During the reporting period, January to June 2022 no grievances related to environment safeguards have been reported. Record format maintained by contractor.

APPENDICES

Appendix 1: Photo Illustration

Package: Construction of DTP drain outfall, secondary drainage and allied works at Dibrugarh



Shuttering of side walls of the drain



H&E Training/tool box talk conducted by Safety Officer, Contractor (Pkg DR-02)

Appendix 2: Sample PUC certificate for vehicle& equipment

AUIIP/PR-1/DIB/DR-02- M/s Badri Rai & Co (Dibrugarh)

Form 59
(See rules 115 (2))

Pollution Under Control Certificate
Authorised By:
Government of Assam

Date : 20/08/2021
Time : 16:52:41 PM
Validity upto : 19/08/2022

Certificate No. : AS06600320003409
Registration No. : AS06BC8024
Date of Registration : 23/Mar/2020
Month & Year of Manufacturing : January-2020
Valid Mobile Number : 98615
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : AS0660032
GSTIN :
Fees : Rs.130.0(GST as applicable)
MR 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	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	1.62	1.2

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://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
(Optional for State)
60mm x 20 mm

Form 59
(See rules 115 (2))

Pollution Under Control Certificate
Authorised By:
Government of Assam

Date : 20/08/2021
Time : 16:15:16 PM
Validity upto : 19/08/2022

Certificate No. : AS06600320003406
Registration No. : AS06BC8027
Date of Registration : 23/Mar/2020
Month & Year of Manufacturing : December-2019
Valid Mobile Number : 98615
Emission Norms : BHARAT STAGE IV
Fuel : DIESEL
PUC Code : AS0660032
GSTIN :
Fees : Rs.130.0(GST as applicable)
MR 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	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	1.62	1.17

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://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
(Optional for State)
60mm x 20 mm

Appendix 3: Labour License

Package: AUIP/PR-2/ DIB/ DR-02 - M/s Gannon Dunkerley & Co. Ltd. (Dibrugarh)

STOP CHILD LABOUR
Engaging Child Labour is a Crime

FORM -VI
(See Rule 25(1))

GOVERNMENT OF ASSAM
OFFICE OF THE LICENSING OFFICER :DIBRUGARH (ASSAM)

License NO. CL/D/ 8259

Fee Paid Rs. 50.00
Dated 9-3-18

Office of the Asst. Labour Commissioner
Govt. of Assam
Dibrugarh

Office of the Asst. Labour Commissioner
Govt. of Assam
Dibrugarh

LICENCE

Licence is hereby granted to: M/s Basu Rai and Company, Part-8 to Arun Kr. Rai and Sri Ajay Kr. Rai, Station Road, Dalgiajan, Dist- Dibrugarh

Under Section 12(1) of Contract Labour (regulation and Abolition) Act, 1970 subject to the condition specified in Annexure.

2. This Licence is for doing the work of Construction and Repairing Works in the establishment of _____

at Asst. Program Manager, P.H. AUIP, Dibrugarh

3. This licence shall remain in force till 8-3-2019

Date: 9/3/18

Signature & Seal of the
Asst. Labour Commissioner
Dibrugarh

RENEWAL
(See Rule 29)

Date of Renewal	Fee paid of renewal	Date of Expiry	Signature of Licensing Officer
15/03/2019	Rs. 50.00	08-03-2020	15/03/19
18/03/2020	Rs. 1400.00	08-03-2021	18/3/20
22/02/2021	Rs. 900.00	08-03-2022	22/02/21
01/03/2022	Rs. 900.00	08/03/2023	01/03/22

Overleaf

Signature & Seal of the
Licensing Officer, Dibrugarh

Appendix 4: Photographs of Public consultation & Attendance Sheet



ATTENDANCE SHEET

Project: DTP DRAIN OUTFALL (Ch. 11500m)

Date: 12/02/22

Venue: BORPATHER

Time: 11:30 am

Sl. No.	Name & Designation	Gender	Contact No.	Signature
4	Junmoni Gogoi	F		Junmoni
21	স্বপ্না মন্ডল	F		স্বপ্না মন্ডল
31	জন্মপা দিহাতিয়া	F		জন্মপা দিহাতিয়া
41	স্বপ্না মন্ডল	F		স্বপ্না মন্ডল
51	জন্মপা দিহাতিয়া	F		Junmoni Gogoi
61	স্বপ্না মন্ডল	F		Junmoni Gogoi
71	জন্মপা দিহাতিয়া	F		জন্মপা দিহাতিয়া
81	স্বপ্না মন্ডল	F		জন্মপা দিহাতিয়া
91	জন্মপা দিহাতিয়া	F		জন্মপা দিহাতিয়া
101	জন্মপা দিহাতিয়া	F		Junmoni Gogoi
111	Meenakshi Baruah, AS, PIA, A. 11 P	F	9864232004	