



Environmental Monitoring Report

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Semestral Report: August 2022 – January 2023
June 2024

India: Assam Skill University Project

Prepared by Assam Skill Development Mission (ASDM) for the Government of Assam (GOA) and the Asian Development Bank (ADB).

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Asian Development Bank

Semi-annual Environmental Monitoring Report

Reporting period: August 2022-January 2023

Project Number: 53277
Loan number: L4166-IND

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India: Assam Skill University Project

February 2024

Prepared by Assam Skill Development Mission (ASDM) for the Government of Assam (GOA) and the Asian Development Bank

ABBREVIATIONS

ADB	-	Asian Development Bank
ASDM	-	Assam Skill Development Mission
ASI	-	Archaeological Survey of India
ASU	-	Assam Skill University
CPCB	-	Central Pollution Control Board
CSQA	-	Construction Supervision and Quality Assurance
DMP	-	Disaster Management Plan
EA	-	Executing Agency
EIA	-	Environmental Impact Assessment
EMP	-	Environmental Management Plan
GoA	-	Government of Assam
Gol	-	Government of India
GRC	-	Grievance Redress Committee
GRM	-	Grievance Redress Mechanism
IEE	-	Initial Environment Examination
IA	-	Implementing Agency
MOEFCC	-	Ministry of Environment, Forest and Climate Change
PMC	-	Project Management Consultant
PMU	-	Project Management Unit
PSC	-	Project Steering Committee
PUC	-	Pollution Under Control
PWD	-	Public Works Department
REA	-	Rapid Environmental Assessment
SEIAA	-	State Environment Impact Assessment Authority
SEED	-	Skill, Employment and Entrepreneurship Department
SPS	-	Safeguard Policy Statement
STP	-	Sewage Treatment Plant

CURRENCY EQUIVALENTS
(As of 22 February 2024)
Currency unit – Indian rupee (Rs)
Rs1.00 = \$0.01201923
\$1.00 = Rs 83.27

WEIGHTS AND MEASURES

µg	–	microgram
dB(A)	–	weighted decibel
km	–	kilometer
km ²	–	square kilometer
m	–	meter
m ²	–	square meter

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EXECUTIVE SUMMARY

1. The objective of the Assam Skill University Project (ASUP) is to strengthen industry-aligned and flexible skills education and training system in Assam by developing management and operating systems, business models, faculty development and management systems for Assam Skill University (ASU); developing environmentally sustainable and climate resilient ASU campus and facilities; designing and delivering industry-aligned and flexible skills education and training programs; developing the capacity to manage and support entrepreneurship, applied research and development, and technology transfer; and improving access to professional development and skills education and training resources for technical and vocational education and training and higher education institutions in Assam, the northeastern region, and neighboring countries. The Skill, Employment and Entrepreneurship Department (SEED) of the Government of Assam (GoA) is the Executing Agency (EA) and Assam Skill Development Mission (ASDM) is the implementing agency (IA) of the project. ASDM has established a Project Management Unit (PMU) to carry out day-to-day project management activities. To achieve the above-mentioned objective; it is proposed to support design and construction of a new green field ASU on 82.737acre (250 Bigha) land (334828.083 m²) plot near Mangaldai in Darrang district.

2. At the time of project concept stage in September 2020, 100 Bigha of land were allotted for the ASU, and the project team completed environmental screening, categorization and consultations in November 2020. Subsequently, in January 2021, the Government of Assam, through the land advisory committee of the Darrang district, recommended additional 150 Bigha of land for the project. Based on this recommendation, the ASDM carried out the engineering survey and prepared a preliminary design layout covering an area of 210 Bigha (69.5 acres) of land with an aim of making campus more open, grand, and beautiful. The IEE report was prepared in March 2021 and was approved in April 2021 for 210 Bigha area. Subsequently after loan signing, additional area (40 Bigha) was also included, due to this ASU plot boundary limits were changed and boundary wall length changed. Hence, the IEE report was updated for 250 Bigha plot of ASU. In newly added area of 40 Bigha, the EA will plan and implement the facilities in future.

3. The site for ASU has been finalized near Mangaldai town of Darrang district in Assam. The site is about 73 km from Guwahati. The ASU will be comprised of: (a) school of manufacturing and construction; (b) school of management and finance; (c) school of agriculture and food technology; (d) school of technology; (e) school of sustainability; (f) school of mobility; (g) school of design and creativity; (h) school of tourism, hospitality and wellness; (i) school of healthcare; (j) school of entrepreneurship and innovation; (k) school of life skills and languages; (l) school of lifelong learning; and (m) school of faculty and curriculum development. The built-up area of the ASU will be around 76,131 m². The total cost of project is estimated to be US\$ 140 million.

4. The ASU project site is unencumbered land owned by the government. The project is categorized as 'B' for environment. Accordingly, to comply with the Asian Development Bank (ADB) Safeguard Policy Statement (SPS), 2009, the initial environmental examination (IEE) report has been updated for the latest sub-project configuration and ASU plot area of 250 Bigha of land.

5. For ease of implementation, ASU campus development has been divided into a few sub-projects. Some of these subprojects, will be prepared and supported under the project, while the others will be prepared after the construction is completed. The major subproject involves detailed design and construction of ASU campus and facilities, including academic and administration buildings (18386 m²), laboratories (13008m²), workshops (2761m²), staff quarters and guest houses(14609m²), hostels (3500 m²), community center(2316m²), miscellaneous buildings (1079 m²), multipurpose hall (2316 m²), single storied corridor with RCC roof (1144m), single storied corridor with sheeting roof (3102 m), and open-air theatre (150 m²). Asbestos products will not be used in the roofing sheets. The subproject also comprises utility infrastructure, including sewage treatment plant (STP) (400 KLD capacity for phase I, space available for future expansion), transformer capacity 4000 kVA, DG set for backup power 1500 kVA and overhead water storage tank (400m³), solar power heating system for 64000 liters per day capacity and roof top solar system for solar power generation 100 kW capacity. The utility infrastructure is included in the built-up area (76,131m²) mentioned above (para. 2). Three rainwater harvesting structures with a combined capacity of 800 m³ will also be provided. The revised IEE report has been prepared for ASU project based on overall plot, preliminary design, soil testing and geotechnical investigation report and drawings of above-mentioned ASU campus and facilities.

6. Preliminary design of ASU campus and facilities were finalized after topographic survey, soil testing and geotechnical report and with due consideration to other climatic and location specific factors such as intense rainfall, liquefaction (weak soil strength) and earthquake zone V coefficient. The detailed design under progress takes care of all the above risk factors. The construction of ASU campus and facilities will mainly be for buildings, workshops and laboratories and furnishing these with equipment, instruments, and machinery. In addition to electrifying these buildings and facilities, drainage, water supply and sewage network systems and sewage treatment plant will be installed as part of utility infrastructure. To make campus ambience soothing to the eyes, plantation of shrubs and ornamental trees, landscaping in open areas (total green area - 217830.74 m²), and development of existing small ponds/low lying areas as water bodies shall also comprise this subproject.

7. The revised IEE provides details of the subprojects and associated potential environmental impacts during pre-construction, construction, and operation phases. The revised IEE report also suggests ways of mitigating and addressing these identified environmental impacts. In the vicinity of ASU site, there are no environmentally and/or ecologically protected areas (national parks, wild-life or bird sanctuaries, tiger reserves, biospheres, forests, etc.), wetlands, mangroves, or estuaries in or near the ASU site. There are no archeologically protected monuments, structures, or heritage sites within 300 m distance of ASU plot boundary (nearest protected structure at about 35 km distance from ASU site). The ASU site is a plain terrain.

8. Since the subproject will involve civil works, consumption of natural resources (water, construction materials), transportation of construction materials, usage of construction equipment and machinery and consumption of power supply, there will be environmental impacts. Like the construction stage impacts, there will be environmental impacts during

operation phase as well. Yet environmental impacts during both construction and operation phases are not likely to be significant as these will be limited to ASU site with no tree cutting requirements for campus and facilities construction. The routine and localized impacts associated with construction and operation can be mitigated easily by following the measures laid down in the revised **Environment Management Plan (EMP)** included in the revised IEE report. The revised EMP is included in the contract of the finalized contractor. The revised IEE report confirm the subproject (detailed design and construction of ASU campus and facilities) and (Construction of Boundary Wall of University Campus) as environment category “B”. No further special study or detailed environmental impact assessment (EIA) needs to be undertaken to comply with ADB SPS, 2009 or Government of India EIA Notification, 2006.

9. A ‘with’ and ‘without’ ASU project scenario has been considered to justify the subproject. Location and usage of alternative materials have also been analyzed from environmental and sustainability considerations. The sustainability considerations have also been discussed for the project scenario.

10. PMU at ASDM is responsible for supervising overall planning and implementation of civil works. The PMU has environmental and social safeguard specialists. To assist PMU in supervision, project management consultant (PMC) firm and construction supervision and quality assurance (CSQA) firm have been appointed. PMU and PMC will ensure that the revised EMP is followed during pre-construction and construction phases. The revised EMP implementation will be monitored by the environment safeguard specialists of PMU and appointed PMC firm.

11. The contractors of construction package (CW-01) have not mobilized and CW-02) have initiated earth filling works from November 2022. In addition to construction, site offices and construction workers’ camps are being established by the contractors. This second semi-annual environmental monitoring report (for August-2022 to January -2023) covers the status of EMP implementation, and compliances with the loan covenants and regulatory requirements. The action points to be followed during the next reporting period (February- July 2023) have also been covered.

I. INTRODUCTION

A. Background

12. **Location.** The proposed location of ASU is near Mangaldai in Darang district of Assam. The latitude and longitude of the ASU site are given below (**Table-1**) and coordinates of newly added area central point are also given. Further, detailed map having coordinates marked on boundary of current plot is given in the next section of the report.

Table 1: Latitude and Longitude of the ASU site

Sl. No.	Name of Facility	Latitude	Longitude
1	Assam Skill University	26°25'21.36"N	92° 0'53.93"E
2	Assam Skill University Newly added area (150 Bigha)	26°42'0.69"N	92° 0'12.99"E

13. The nearest rail head to Mangaldai is Tangla at about 35 km and Rangia Junction 48 km away from the ASU site. The project site is well connected to important destinations such as Guwahati, New Jalpaiguri, Rangia and Nalbari. The distances of important destinations are given below in **Table-2**:

Table 2: Distances of important destinations from ASU site

Sl. No.	Name of Facility	Altitude (m)	District	Distance from ASU site
1.	ASU	51.24	Darrang	Guwahati Airport : 70 Km Guwahati City : 72 Km Tezpur : 107 Km Nalbari : 68 Km IIT Guwahati : 52 Km Udalguri : 43 Km Alipurduar : 303 Km Cooch Behar : 323 Km Darang : 5 Km Barpeta : 123 Km Morigaon : 141 Km

14. The proposed Skill University site is a vacant land in the ownership of Assam Skill University (ASU), Government of Assam. The Darrang district geographically lies between the latitude 20° 9'N to 26.96° North and longitude 91° 45' E to 92° 22' East.

B. Purpose of Report and Report Preparation

15. The Second Semi-annual Environmental Monitoring Report (SEMR) covers the period from August 2022 to January 2023, in compliance with the Project Loan Agreement, for submission to ADB. The report presents the findings of the monitoring of environmental safeguards protection and supervision activities. In particular, it determines whether or not the EMP and environmental protection measures and mitigation recommended in the approved EMP document have been implemented effectively to avoid, minimize, or mitigate environmental impacts. It also identifies activities that have not been properly implemented by the project.

II. PROJECT PROGRESS

A. Project Implementation Progress

16. The project has two Civil Contracts CW- 01: Land preparation and boundary wall for ASU campus and CW- 02: Detailed design and construction of ASU campus and facilities. Project overview and project progress are summarized in the **Table 3**.

Table 3: Project Overview, Snapshot of Project Progress

Project Number and Title:	Project Number: 53277 Loan: 4166-IND Title: Assam Skill University Project	
Safeguards Category	Environment	B
Reporting period:	Aug 2022-Jan 2023	
Next report date:	August 2023	
Key sub-project activities	<ul style="list-style-type: none"> Land preparation and boundary wall for ASU campus (CW-01) Detailed design and construction of ASU campus and facilities (CW-02) 	
Report prepared by:	PMU under technical support of PMC environmental safeguards specialist	

17. The physical construction activities and work progress for the reporting period of Aug 2022 - Jan 2023 has been indicated below. Based on **Table 4**, the detailed progress of Assam Skill University Project is as follows.

- ▶ Geotechnical investigation report for the subsoil exhibits that the entire proposed site is potentially liquefiable up to a maximum depth of 10.5m from E.G.L. Considering this, a revised structural drawing of the boundary wall was designed and submitted by IIT Guwahati. A part of this boundary wall is being constructed as brick wall and in some portion it will be fencing (on the zigzag area which is more feasible and cost effective). For the brick wall portion of 2051 meters, a pile foundation with 450mm dia pile and 12m length is proposed. For the Chain-link portion of 1791 meters, a pile foundation with 450mm dia pile and 12m length is proposed.
- ▶ CW02 has submitted the updated master plan and design with additional stilt level along with the storm water drainage plan on 21st January 2023. Further the IIT vetted drawings of the Guest House were submitted in January 2023. Pile works for the guest house is expected to start from 15th February 2023. Earth filling works details from November 12th 2022 till January 31st 2023 is approximately 79216 cum. Installation of Batching Plant, site office and labour camp are in progress.
- ▶ ASU Interim Campus has been proposed in ITI Guwahati. Due diligence survey has been conducted and IEE report has been submitted to ADB for approval along with the DPR for the Interim Campus.

Table 4: Progress work of each sub-project

SL.N O.	CONTRACT NO.	CONTRACT NAME	CONTRACTOR	AWARD DATE	COMPLETION DATE	STATUS
1.	CW- 01	Land preparation and boundary wall for ASU campus	M/s A. S. Enterprise	30 th September 2021	13 th October, 2023	++Final Revised Boundary Wall Design

						has been submitted by IIT Guwahati.
2.	CW- 02	Detailed design and construction of ASU campus and facilities	M/s Pawan Communication Pvt. Ltd. in JV with Brahmaputra Infrastructure Ltd.	2 nd November 2021	2 nd November 2024	Updated Master Plan received. Drawings in approval stage.

++ Although the work awarded but works could not commence in reporting period as design was revised due to liquefaction issue. Approved drawings for construction were not available.

III. INSTITUTIONAL ARRANGEMENTS FOR ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN IMPLEMENTATION

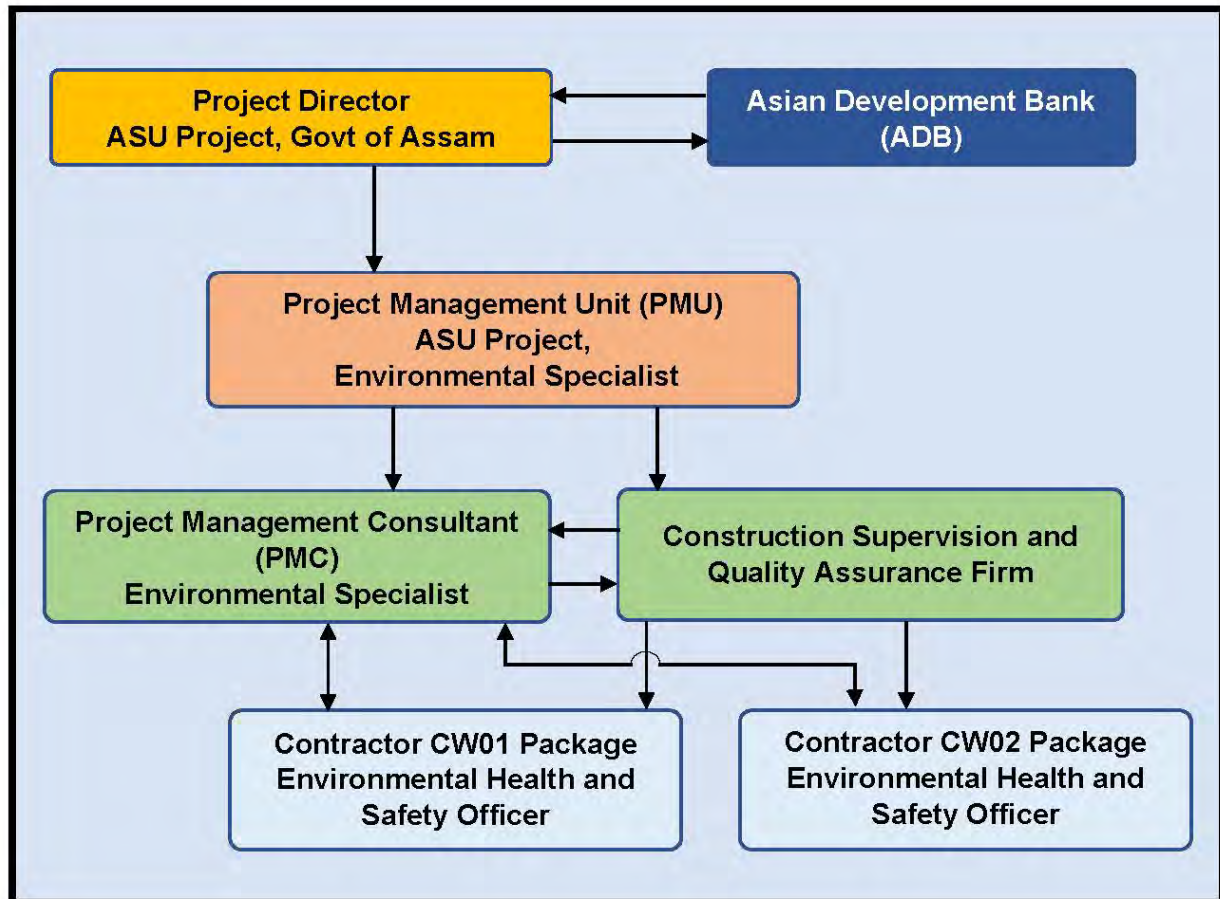
A. Roles and Responsibilities for IEE and EMP Monitoring Implementation

- i. The ASDM has established a PMU, headed by a full-time Project Director (PD) at ASDM, and consisting of personnel drawn from relevant line departments and market. This PMU have safeguards specialists (social and environment). The PMU is being supported by the project management consultants (PMC). The PMC team has one environmental safeguard specialist.
- ii. The construction of ASU campus and facilities at site are being supervised by the CSQA firm multidisciplinary team. This CSQA firm team is being headed by the Team Leader.
- iii. The project management consultant (PMC) has been engaged to provide support to the PMU in overall planning, risk management, implementation, monitoring, reporting, and evaluation under the project. The PMC team has experienced professionals specializing in areas such as procurement, social safeguards, environmental safeguard, finance, etc. The PMC provides assistance to the PMU and ASDM in meeting the relevant requirements of ADB, GoA, and Gol for project implementation. The PMC team reports and works under the overall guidance of the PMU.
- iv. In order to ensure effective implementation of safeguard related components in the project, PMU has safeguard experts (one environmental specialist and one social development specialist). These safeguard experts ensure implementation of environmental management plan and social safeguard actions under the project.

The CW02 contractor in the current subproject has appointed one HSE Manager for the implementation of the IEE and EMP requirements at site. CW01 has also deployed one person as HSE Manager as designate. The contractor is yet to deploy a qualified HSE officer for the implementation of IEE and EMP. The CW01 contract also requires the contractor to deploy a qualified safety officer. The contractor is yet to deploy a safety officer.

The organization chart for the environmental management has been provided below in **Figure-1**.

Figure-1: Organization Chart for Environmental Management in ASU Project



B. Responsibility for updating IEE during Pre-Construction and Construction

- i. **Responsibility for monitoring.** During construction, the environmental specialists of the PMU and PMC are monitoring the contractor's EMP implementation at site and also updating of IEE reports for change in scope of project features and /or inclusion of a new component.
- ii. **Responsibility for Reporting.** PMU submits semi-annual reports on the implementation of the EMP to ADB. The PMU also permits ADB to field environmental review missions to examine in detail, the environmental aspects of the project. Any major lapses (such as non-compliances with regulatory requirements, etc.) in adhering to the IEE and/or EMPs for specific sub-projects shall be reported to ADB immediately. The PMC's environment specialist assists the PMU in finalizing the semi-annual environmental monitoring reports. For any non-compliance observed, corrective actions will be implemented in a time bound manner. The cost for mitigating non-compliance will be borne by the contractor as per contract provisions.

C. Environmental Implications due to Changes in Project Scope and Updated IEE & EMP

- i. No impacts on natural and cultural heritage have been identified in the reporting period. The specific management measures laid down in the revised IEE will effectively address any adverse environmental impacts due to the ASU project. The effective implementation of the measures proposed will be ensured through the building of capacity towards environmental management within the PMU supplemented by the technical expertise of safeguards specialists of the PMC. Further, the environmental monitoring plan provides adequate opportunities towards course correction to address any residual impacts during boundary wall construction.
- ii. Negative impacts on water, air quality and noise levels during civil works will be appropriately monitored and adequately mitigated. This report has not identified any comprehensive, broad, diverse or irreversible adverse impacts caused by the ASU project. Based on the findings of the revised IEE, the classification of the project as Category "B" is confirmed. No further special study or detailed EIA needs to be undertaken to comply with ADB SPS (2009). The versions of the IEE, revised IEE, and EMPs can be found at <https://asdm.assam.gov.in/frontimpotentdata/assam-skill-university-project-asup>

IV. ENVIRONMENTAL PERFORMANCE MONITORING

A. EMP and Monitoring Plan Objectives

18. The EMPs outline the mitigation and monitoring to be undertaken during project implementation and operation to avoid, minimize, or control adverse environmental and social impacts, as well as the actions and resources needed to implement these measures. The EMP reflects the commitment to environmental management and shall serve as an environmental operation manual for use by management and project staff, contractors, and regulatory authorities. The EMPs implementation shall ensure that the national environmental quality standards for air, water, and noise quality are complied with during the construction and operation phases of the project.

B. Incorporation of Environmental Requirements in Project Contractual Arrangements

19. It is noted that environmental considerations have been incorporated in the design, bidding documents, and civil works contracts to ensure environmentally responsive procurement. The cost of all mitigation measures during construction have been included in all bidding documents and signed contracts. The EMPs of individual contract packages (CW01 and CW02) are part of the contract documents of the contractors. The EMP implementation status for the construction packages (CW01 and CW02) for the ASU project has been given in **Table 5** and **Table 6**.

Table 5: Compliance with EMP Requirements (Environmental Performance) during Pre-Construction Phase (CW01):

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
1	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created	Design has included provisions for ensuring effective maintenance and protection of boundary wall so as to ensure the long-term sustainability. The long-term sustainability has been ensured by taking into consideration appropriate Bureau of Indian Standards Codes (BIS) for design, Seismic Zone V coefficient, appropriate wind load factor (corresponding to 39 m/s wind speed), and detailed design after completing topographic survey of ASU site. The site drainage system has been designed based on local conditions, flooding data of Brahmaputra River and hydrological study	Complied with	Boundary wall has been designed by IIT Guwahati considering the sustainability factors.
2	Layout of components to avoid impacts on the aesthetics of the project site and	The boundary wall will not have any adverse impacts on aesthetics of site as there will be only erection of boundary wall. However,	Complied with.	Boundary wall design has been done accordingly and will not have

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
	surroundings	boundary wall exterior looks will match the local building exteriors in the project region. The additional length of boundary wall added due to additional 40 Bigha area will also be constructed with the same specifications as per planned for tendered length.		adverse impacts on aesthetics.
3	Increased storm water runoff from alterations of the site's natural drainage patterns due to landscaping, excavation works, Construction of parking lot, and addition of paved surfaces	The boundary wall construction will not increase any significant paved surface. But subsequent layout finalization and design of ASU will take care of site storm water runoff quick disposal through effective drainage plan.	In progress for the compliance	Updated master plan along with the storm water drainage has been submitted by CW02 contractor for the entire ASU project. This will be applicable for this package also. This master plan is under review in the reporting period.
4	Consents, permits, clearances, no objection certificate,(NOC), etc.	Obtain all necessary consents, permits, clearances, NOCs, etc. prior to start of civil works. Acknowledge in writing and provide report on compliance, all obtained consents, permits, clearances, NOCs,	Being Complied with	Land NOC received, NOC for Wild Life & Forest from State Forest Department – received, Labour license and insurance – processed by contractor Ground water withdrawal approval-Under process. The contractor not mobilized at site during the reporting period (due to change in design and approved drawings not available) so labour license was not applicable for this package.
5	Establishment of baseline environmental conditions prior to start of civil works	Conduct documentation of location of components, areas for construction zone (camp, staging, storage, stockpiling, etc.) and	Complied with	Baseline monitoring completed (Monitoring reports provided

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
		<p>surroundings (within direct impact zones). Include photos and GPS coordinates.</p> <p>Carry out environmental monitoring at project site for ambient air quality, water quality and noise levels to establish baseline environmental monitoring for the parameters indicated in the monitoring plan</p>		<p>in Annexure 4). The baseline monitoring completed by the CW02 contractor and will be applicable for this package also as contractor was not mobilized in the reporting period. Documentation of various zones (camp, stockpiling of construction materials, etc.) will be completed once contractor is mobilized and it will be updated in the next reporting period.</p>
6	Utilities	<p>The locations and operators of utilities to be impacted for the boundary wall construction should be identified and documented in detailed design documents to prevent unnecessary disruption of services during the construction phase.</p> <p>Require contractor to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.</p> <p>Obtain from the site team of PMU the list of affected utilities and operators.</p> <p>If relocation is necessary; contractor will coordinate with the providers to relocate the utility.</p>	Complied with	Contingency plan included in Site Specific EHS Plan
7	Social and cultural resources	Develop a protocol for use by the contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures	Complied with	Chance 'Find Protocol' developed by PMU and PMC

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
		are taken to ensure they are protected and conserved		
8	Construction camp locations, selection, design and layout	<p>Sitting of the construction camp, if required, at project site shall be as per the guidelines below and details of layout to be approved by PMU.</p> <p>The potential sites for labor camp and construction camp shall be identified by the contractor and this identified site shall be visited by the environmental specialist of PMU and one having least impacts on environment will be approved by the PMU.</p> <p>As far as possible, construction camp and labor camp will be established within the boundary of plot for the project to avoid impacts on private land. Locations for storage of construction materials shall be identified at the site or at existing buildings in the Mangaldai town. Sanitation facilities at construction camps shall be adequately planned.</p>	Not Applicable in the reporting period.	The contractor is yet to be mobilized at site. The contractor once mobilized, needs to ensure well-ventilated and structurally stable accommodation and adequate and sanitation and drinking water facilities. The above requirements will be followed up during the camp construction in the next reporting period.
9	Sources of construction materials	Use quarry sites and sources compliant with environmental regulations of India at the national, state and local levels. Verify suitability of all material sources and obtain approvals from PMU. Submit to PMU on a monthly basis documentation of sources of materials.	Not Applicable for the reporting period.	The CW01 contractor advised for the compliance. All materials will be procured from the sources compliant with the environmental regulations of GoI and GoA. In the reporting period consumption of materials was not there as contractor was not mobilized.
10	Access for construction material transportation	Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of ASU project site. Schedule transport and hauling activities during	Compliance in progress in the reporting period.	Detailed plan yet to receive from contractor as routes of transport are being firmed up.

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
		<p>non- peak hours. Locate entry and exit points in areas where there is low potential for traffic congestion. Keep the site free from all unnecessary obstructions. Drive vehicles in a considerate manner. Coordinate with the Traffic Police Department for temporary road diversions and for provision of traffic aids if transportation activities cannot be avoided during peak hours.</p>		
11	Occupational health and safety	<p>Comply with IFC EHS Guidelines on Occupational Health and Safety.</p> <p>Develop comprehensive site-specific health and safety (H&S) plans. The overall objective is to provide guidance to contractor on establishing a management strategy and applying practices that are intended to eliminate, or reduce, fatalities, injuries and illnesses for workers performing activities and tasks associated with the project.</p> <p>Include in H&S plan measures such as: (i) type of hazards at construction site;(ii) corresponding personal protective equipment for each identified hazard; (iii) H&S training for all site personnel;(iv) procedures to be followed for all site activities; and (v) documentation of work-related accidents. Take necessary measures for the protection of COVID-19. Provide medical insurance coverage for workers.</p>	Not Applicable for the reporting period	<p>H&S Plan submitted by Contractor & same approved by Engineer. The contractor is yet to mobilize at site.</p> <p>The contractor once mobilized will be instructed to maintain an accident register for the documentation of work related accidents.</p> <p>The contractor once mobilized at site will be instructed to obtain suitable insurance cover to all category of workers and staff.</p> <p>Further, it is confirmed that no asbestos containing materials will be used to avoid any health and safety issues pertaining to asbestos.</p> <p>The medical insurance and /or financial assistance is to be provided for any injury on account of work</p>

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
				related mishaps at site.
12	Stakeholder consultations	Continue information dissemination, stakeholder consultations, and involvement of stakeholders during project implementation	Being Complied with	Stakeholder consultations are being conducted periodically and will be continued.

Table 6: Compliance with EMP Requirements (Environmental Performance) during Pre-Construction Phase (CW02):

Sl. No.	Environmental Issues	Mitigation Measures	Status	Remarks/Action Points
1	Lack of sufficient planning to ensure long term sustainability of the ASU campus and its facilities and protection of assets	Design has included provisions for ensuring effective maintenance of ASU campus infrastructure, so as to ensure the long-term sustainability. The long-term sustainability has been ensured by taking into consideration appropriate Bureau of Indian Standards Codes (BIS) in the design of ASU infrastructure considering seismic Zone V coefficient. Appropriate wind load factor (corresponding to 39 m/s wind speed, maximum possible load) has been considered in the building design (maximum wind. The preliminary design has been completed after topographic survey of ASU site. Three rainwater harvesting structures with a combined capacity of 800 m ³ will be provided. The capacity of rainwater harvesting structures has been finalized based on computation of runoff with rainfall data and runoff coefficient. The plinth level has been kept about 20 cm above highest flood level to ensure long term sustainability. To address the water logging issue at site an effective drainage system is being designed based on hydrological study and historical flood data of Brahmaputra River. The foundation shall be provided to take care of liquefaction phenomenon at site.	Compliance in progress in the reporting period	In the reporting period, updated master plan submitted taking into consideration sustainability factors. Detailed designs and drawings under review at ASU.
2	Environmental monitoring to establish	Environmental monitoring in respect of ambient air quality, water quality (Ground and	Complied with	The baseline environmental monitoring

	baseline monitoring	surface) and noise levels immediately after mobilization to establish baseline at ASU site. Locations for sample collections may be finalized in consultations with PMU and PMC environmental specialist.		conducted by the Assam State Pollution Control Board. The monitoring results are found to be satisfactory and within the stipulated limits. (Monitoring reports provided in Annexure 4). The environmental monitoring is to be continued in rest period of construction as per monitoring plan.
3	Layout of components to avoid impacts on the aesthetics of the project site and surroundings	The ASU campus buildings will not have any adverse Impacts on aesthetics of project site and surroundings and exteriors of campus buildings will be similar to the exteriors of buildings in the project region as well as matching with institutional looks. There will be positive impacts as green areas to be developed in campus will enhance look of the area. The additional 40 Bigha area added to site is also similar to existing site and will remain open and kept for future expansion.	Compliance in progress in the reporting period	Green areas have been considered in detailed design and locations identified. These will be developed at the end of construction phase.
4	Increased storm water runoff from alterations of the site's natural drainage patterns due to landscaping, excavation works, Construction of parking lot, and addition of paved surfaces	The preliminary ASU layout and design considered storm water runoff. This will be provided through the development of existing seasonal water ponds (low lying areas) into water bodies within the campus. The capacity of these ponds will be increased through excavation. The part of storm water will be diverted to these water bodies and part will be diverted through drainage system (local drains) outside campus. The effective drainage plan shall be prepared by the contractor, and it will be reviewed by the PMU and PMC for the implementation in the construction phase.	Compliance in progress in the reporting period	Storm water drainage plan has been submitted along with the updated master plan by CW02 under review. The contractor is instructed to prepare storm water drainage plan for construction period (especially for monsoon months) so that there is no flooding at site and surroundings.
5	Consents, permits, clearances, no objection certificate (NOC),	Obtain all necessary consents, permits, clearances, NOCs, etc. prior to start of civil works. Acknowledge in writing and	Compliance in progress in the reporting period	1. Land NOC- Received 2. NOC for Wild Life & Forest from

	<p>building drawings approvals from civic authorities, labor licenses of contractors, insurance for workers etc.</p>	<p>provide report on compliance (with terms and conditions) for, all obtained consents, permits, clearances, NOCs, etc.</p>	<p>State Forest Department – Received</p> <p>3.Labour license and insurance-Received (attached in Annexure 8 &10). In the reporting period the number of workers were within the provisions of labor license.</p> <p>4. In the current reporting period there are no migrant labours. The contractor has confirmed this through communication to the PMU. The contractor needs to obtain migrant labour license in the next reporting period.</p> <p>5. CTE for Batching Plant-obtained (attached in Annexure 12)</p> <p>6. CTE for ASU-Application initiated in the reporting period. The CTE obtaining process for the project to be completed in the next reporting period.</p> <p>7. Building approval- Issued by Mangaldai development Authority)</p> <p>8. NOC for earth cutting- Royalty paid attached in Annexure 11).</p> <p>9.Contractor submitted the environmental clearance copy of quarry identified for collection of Sand and Gravel (Attached in Annexure 11)</p>
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				Contractor has been instructed to sign an MoU with the above quarry for the supply of construction materials.
6	Integration of energy efficiency and energy conservation programs in the ASU campus planning and design	<p>The following energy efficiency measures have been adopted in the ASU campus design and subsequent implementation:</p> <p>Installation of BEE certified equipment at the workshop, laboratories, classrooms and other facilities.</p> <p>Usage of energy efficient lighting fixtures (LED and solar). The disposal of discarded LED should be done in consultation with civic bodies and supplier.</p> <p>Solar energy usage for water heating.</p> <p>Solar energy utilization for lighting. Roof top solar system of 100 kVA proposed.</p> <p>The implementation of above measures to planned and completed.</p>	Compliance in progress in the reporting period	Master plan design has been done taking efficiency measures
7	Establishment of baseline environmental conditions prior to start of civil works	<p>Conduct documentation of location of components, areas for construction zone (camp, staging, storage, stockpiling, etc.) and surroundings (within direct impact zones). Include photos and GPS coordinates.</p> <p>Carry out environmental monitoring at ASU project site for ambient air quality, water quality and noise levels to establish baseline environmental monitoring for the parameters indicated in the monitoring plan.</p>	Complied with	The baseline environmental monitoring completed through Assam State Pollution Control Board. Baseline monitoring reports provided in Annexure-4. The construction phase monitoring is to be ensured as per the approved monitoring plan.
8	Utilities (mainly electric line and possibility of underground cables)	<p>The locations and operators of utilities to be impacted for the subproject should be identified and documented in detailed design documents to prevent unnecessary disruption of services during the construction phase.</p> <p>Require contractor to prepare a contingency plan to include actions to be done in case of unintentional interruption of services. Obtain the list of</p>	Complied with	Contingency plan included in Site Specific EHS Plan.

		affected utilities and operators (Assam Electricity Supply Department, Water Supply Department, Telecommunication Departments, etc.). If relocations are necessary; contractor will coordinate with the providers to relocate the utility.		
9	Social and cultural resources	Develop a protocol for use by the contractor in conducting any excavation works, to ensure that any chance finds are recognized, and measures are taken to ensure they are protected and conserved.	Complied with	A chance find protocol has been developed by PMU and PMC
10	Construction camp- locations, selection, design and layout	<p>Sitting of the construction camp, if required, at project site shall be as per the guidelines below and details of layout to be approved by PMU.</p> <p>The potential sites for labour camp and construction camp shall be identified by the contractor and this identified site shall be visited by the environmental specialists of PMU and PMC and the one having least impacts on environment will be approved by the PMU. As far as possible, construction camp and labor camp will be established within the boundary of plot for the project to avoid impacts on private land. Locations for storage of construction materials shall be identified at the site or at existing buildings (taken on rent) in the vicinity of site. Sanitation facilities at construction camps shall be adequately planned.</p>	Being complied with	<p>In the reporting period Labour camp site identified by the contractor has been reviewed by PMU and PMC before approval. Approval of Engineer is also taken for the structural layout of the labour camp. The construction camp establishment is in progress. The contractor to ensure well ventilated and structurally safe accommodation. In no case fuel wood will be used for cooking. The contractor should provide LPG. Sanitation facilities to be gender segregated and potable water supply should be proper and quality will be regularly checked.</p>
11	Sources of construction materials	Use quarry sites and sources compliant with environmental regulations of India at the national, state and local levels. Verify suitability of all material sources and obtain approvals	Being complied with.	<p>1-Royalty payment done (Attached in Annexure 11) for the earth works.</p> <p>2-EC from SEIAA</p>

		from PMU. Submit to PMU on a monthly basis documentation of sources of materials.		obtained by the quarry from where material is sourced by CW02 contractor (Annexure11). The sources of materials are compliant with the environmental regulations of Gol and GoA. CW02 has been instructed to sign an MoU with the quarry for supply of materials. Since it is a plinth area basis contract, the quantity to be used for the entire project has not been known in this reporting period. In the reporting period consumption of materials was not there as contractor was in mobilization and earthworks for filling were only undertaken.
12	Access for construction material transportation	Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of ASU campus site because close to site access roads are narrow Schedule transport and hauling activities during non- peak hours (between 1100 to 1700 hours). Locate entry and exit points for the site in a way that traffic congestion is minimum on access roads to site. Keep the site free from all unnecessary obstructions. Drive vehicles in a considerate manner. Coordinate with the Traffic Police Department for temporary road diversions and for provision of traffic aids if transportation activities cannot be avoided during peak hours (in case of exigencies).	Compliance in progress in the reporting period	Traffic management plan yet to be submitted by the contractor for the review.
13	Occupational health and safety	Comply with IFC EHS Guidelines on Occupational Health and Safety.	Complied with	The H&S plan submitted by Contractor &

		<p>Develop comprehensive site-specific health and safety (H&S) plan. The overall objective is to provide guidance to contractor on establishing a management strategy and applying practices that are intended to eliminate, or reduce, fatalities, injuries and illnesses for workers performing activities and tasks associated with the project</p> <p>Include in H&S plan measures such as: (i) type of hazards at construction site; (ii) corresponding personal protective equipment for each identified hazard; (iii) H&S training for all site personnel; (iv) procedures to be followed for all site activities; and (v) documentation of work-related accidents.</p> <p>Ensure that there will be no use of asbestos containing materials such as roofing sheets and pipes.</p> <p>Provide medical insurance and accident coverage for all workers (skilled, semi-skilled and unskilled) of contractors and sub-contractors.</p>		<p>same reviewed by PMU and approval will follow. The H&S plan covers all desired features.</p> <p>It is confirmed that no asbestos containing materials have been used.</p> <p>CW02 has received Insurance policy for 100 workers. In the reporting period, number of workers were less than 100. The work fronts and site should be properly barricaded to ensure unauthorized access and safety of locals and /or pedestrians.</p> <p>3- Fire fighting arrangements (fire extinguishers, sand buckets, etc.) should be properly maintained and regularly tested by the contractor.</p> <p>4- Necessary safety measures should be provided at the electrical panels.</p> <p>5- The contractor should cover loose materials to avoid dust generation and ambient air quality issues.</p>
14	Measures for the protection of COVID- 19 at ASU campus site	All protection measures pertaining to COVID-19 will be taken at the site as per the protocol specified by the GoA and Gol for the construction sites. For this, a COVID-19 Health and safety Plan will be prepared by the contractor after	Complied with	Submitted by Contractor & same reviewed by PMU. In the reporting period, COVID-19 Protocol was not in force.

		mobilization. The protection measures for COVID-19 will continue till pandemic threat continues.		
15	Stakeholder consultations	Continue information dissemination, stakeholder consultations, and involvement/participation of stakeholders during project implementation.	Being Complied with	Stakeholders consultations are being conducted periodically. The details provided in the report. The stakeholder consultations should be conducted regularly.
16	Disclosure of revised IEE and revised EMP	The revised IEE report including revised EMP and monitoring table to be disclosed in English and Assamese language at ASDM website and hard copies to be made available at ASU site office, ASDM Guwahati office, and Deputy Commissioner Darrang office.	Compliance in progress in the reporting period	Disclosed at ASDM website, only the English version was disclosed at ASDM website. The Assamese version is in the process of translation. It will be disclosed in the next reporting period.
17	Establishment of grievance redress committee and functionality	Grievance Redress Mechanism (formation of committees) to be notified by the IA (ASDM).	Complied with	Committees formed and notified by the IA (ASDM).

Note: During the reporting period, pre- construction activities were in progress. Compliance with the construction phase EMP will be provided in the next reporting period.

C. Environmental Monitoring Plan

20. Baseline environmental monitoring at project site for ambient air quality, water quality and noise levels has been undertaken during the reporting period by the contractors. The environmental monitoring was supervised by the safeguard's specialists of PMU and PMC. Results of Air Quality (average values) are $PM_{2.5}= 20\mu g/m^3$, $PM_{10}= 64\mu g/m^3$, $NO_2=16 \mu g/m^3$, $SO_2=7\mu g/m^3$. Results of Noise Quality are Leq (Day) =56.1 dB(A) and Leq (Night) = 47.1dB(A). For ground water, sample has been taken from ground water from site and sample water from Mangaldai river as per sampling protocol PCB/LAB/W&WW/SOP/02. Results attached in Annexure 4. It is clear from these results that ambient air quality parameters are well within the stipulated limits. The noise levels are slightly higher both during daytime and nighttime for the residential land use around the ASU site. The ground water quality meets all parameters specified in IS:10500 for the drinking water. The surface water quality baseline has been established by collecting and analyzing the Mangaldai River water sample. It is clear from the water quality results provided in Annexure-4 that Mangaldai river water quality meets Class C permissible criteria of surface water specified by the Central Pollution Control Board. The baseline monitoring was carried out by the CW02 contractor as CW01 contractor was not mobilized.
21. The approved environmental monitoring plan has been given in **Table-7** for CW-01 construction package and **Table-8** for CW02 construction package. The planned monitoring of all relevant environmental parameters, with a description of the sampling stations,

frequency of monitoring, applicable standards and responsible agencies are presented in this table.

Table 7. Approved Environmental Monitoring Plan for (CW01- Construction Package) Boundary Wall Construction for Preconstruction and Construction Phases

SI N o.	Field (Environmental Attribute)	Phase	Parameters to be Monitored	Locations	Frequency	Responsibility	Cost (INR/US\$)
1	Air Quality	During pre-construction phase	CO, NOx, PM ₁₀ , PM _{2.5} , and SO ₂	Boundary wall construction site	Once in the preconstruction phase to establish baseline	Contractor and PMU site team through approved Monitoring Agency	INR20,000/US\$280
		During construction phase			Once in construction phase		
2	Water quality	During pre-construction phase	TDS, TSS, pH, Hardness, BOD, Faecal Coli form	Ground water close to ASU construction site	Once in pre-construction phase to establish baseline	Contractor and PMU site team through approved monitoring agency	INR20,000/US\$280
		During construction phase			Once in construction phase		
3	Noise Levels	During pre-construction phase	Noise quality as per National Ambient Noise Standards on dB(A) scale	Noise levels at boundary wall construction site	Once in pre-construction phase to establish baseline	Contractor and PMU site team through approved monitoring agency	INR 20,000/US\$280
		During construction phase			Once in construction phase		
		Operation phase					

Source: Approved IEE report

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Table-8: Approved Environmental Monitoring Plan for the Detailed Design and Construction of ASU Campus and Facilities (CW02 Construction Package) during Pre-construction, Construction and Operation Phases

Sl. No	Field Environmental Attribute	Phase	Parameters to be Monitored and applicable standards	Locations	Frequency	Responsibility	Cost (INR/US\$)
1	Air quality	During pre-construction phase	CO, NOx, PM ₁₀ , PM _{2.5} , and SO ₂ (applicable standards – national- National Ambient Air Quality Standards)	Location of maximum construction activity at the ASU site	Once in the pre-construction phase to establish baseline	Contractor through approved monitoring agency during pre-construction and construction phase and ASU management team during operation phase	INR160,000/US \$2300
		During construction phase			Once in a quarter except monsoon quarter (June to September) during construction phase		
		During operation phase for first two years			Once in a quarter except monsoon quarter for first two years		
2	Ground water quality	During pre-construction phase	TDS, TSS, pH, Hardness, BOD, Faecal Coliform (applicable standards – national- Drinking Water Quality Standards specified in IS:10500)	Ground water close to ASU construction site	Once in the pre-construction phase to establish baseline	Contractor through approved monitoring agency during pre-construction and construction phase and ASU management team during operation phase	INR160,000/US \$2300
		During construction phase			Once in in a quarter except monsoon quarter during construction phase		
		During operation phase for first two years			Once in a quarter except monsoon quarter for first two years		
3	Treated Waste Water in Recycle use in ASU campus	During operation phase	TDS, TSS, pH, Hardness, BOD, Faecal Coliform (applicable standards – national- Drinking Water Quality Standards specified in IS:10500)	Treated water from STP used for recycle	Once in a quarter except monsoon quarter for first two years	ASU management team	INR 60,000/US\$850

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Sl. No	Field Environmental Attribute	Phase	Parameters to be Monitored and applicable standards	Locations	Frequency	Responsibility	Cost (INR/US\$)
4	Noise Levels	During pre-construction phase	Noise quality as per National Ambient Noise Standards on dB(A) scale (Applicable standards – national- National Ambient Noise Standards)	Noise levels at location of maximum construction activity at ASU site	Once in the pre-construction phase to establish baseline	Contractor through approved monitoring agency during pre-construction and construction phase and ASU management team during operation phase	INR 48,000/US \$700
		During construction phase			Once in quarter except monsoon quarter during construction phase		
		During operation phase for first two years			Once in a quarter except monsoon quarter for first two years		

Source: Approved IEE report

D. Capacity Building on Environmental Safeguards

22. In addition to the primary objective of project strengthening industry-aligned and flexible skills education and training systems in Assam, the ASU will also build capacity about environmental safeguards of PMU, contractors, and CSQA firm team. In the operation phase, ASU ~~camp~~ management team will take up awareness about environmental conservation with the assistance of PMU.

23. The environment specialists of PMU and PMC provided the basic training required for environmental awareness on 20 Jan 2023 to the contractors site team, technical team of CSQA firm. The training covered basic principles of environmental assessment and management, mitigation plans and programs, implementation techniques, monitoring methods and tools for a total of 42 participants. The attendance and photos of the training session has been attached in **Annexure 2**.

E. Environmental Budget

24. Most of the mitigation measures require the contractor to adopt good site practices, which should be part of their normal procedures and these are mandated under the prevailing regulations and standards, hence there are unlikely to be major costs associated with compliance. Only those items not covered under budgets for construction are included in the EMP budget. The revised IEE costs include mitigation, monitoring and capacity building costs. The summary budget for the environmental management costs for the sub-project is presented in **Table 9**.

Table-9: Environmental Management and Monitoring costs (INR)

I. Boundary wall (CW01) Construction Package			
Monitoring Component	Rate	Amount (INR)	Source of Fund
Pre-Construction and Construction Phase			
Air Quality: One location at boundary wall construction site (one sample during pre-construction phase) and two samples during construction phase (Total 3 samples)	10,000	30,000	Contractor
Water Quality: One ground water sample from boundary wall construction site, (one sample during pre-construction) and two samples during construction phase (Total 3 samples)	10,000	30,000	Contractor
Noise Quality: One location at boundary wall construction site(one sample during pre-construction phase) and two sample during construction phase (Total 3 samples)	3000	9,000	Contractor
Total: Pre-Construction and Construction Phase Monitoring Cost (A)		69,000	
O&M Phase: No monitoring planned as no environmental impacts anticipated from boundary wall after completion of construction.			
Total O&M Phase Monitoring Cost (B)		0	
Total Cost (A+B)		69,000	
Contingencies @ 5 %		3450	

Monitoring Component	Rate	Amount (INR)	Source of Fund
Total Budgeted Cost (INR)		72,450 (approx. 75,000)	

Source: Approved IEE Report Boundary wall construction package

II. ASU Campus (CW02) Construction Package

Monitoring Component	Rate	Amount (INR)	Source of Fund
Pre-Construction and Construction Phase			
Ambient Air Quality: One location at location of maximum construction activity at ASU site (one sample during pre- construction phase and nine samples during construction phase - Total 10 samples)	10,000	100,000	Contractor
Water Quality: One ground water sample from ASU construction site from existing bore well/hand pump (one sample during pre- construction phase and nine samples during construction phase - Total 10 samples)	10,000	100,000	Contractor
Ambient Noise Quality: One location of maximum construction activity at ASU construction site (one sample during pre- construction phase and nine samples during construction phase - Total 10 samples)	3000	30,000	Contractor
Cost for Occupational Health and Safety Measures Occupational health and safety measures at construction site and workers' camp	Covered in the construction cost of contractor as EVRs part of bid and contract document.		Contractor
Capacity Building Training Program	Covered in the consultancy cost of the PMC and operation cost of PMU		
Total: Pre-Construction and Construction Phase Monitoring Cost (A)		230,000	
O&M Phase			
Ambient Air Quality One location at ASU campus, thrice a year, for first 2 years (three samples a year, total of six samples)	10,000	60,000	PMU and ASU
Drinking Water Quality One treated drinking water sample at ASU campus, thrice a year, for first 2 years (three samples a year, total of six samples)	10,000	60,000	PMU and ASU
Treated wastewater Quality One treated wastewater sample used for recycling in ASU campus, thrice a year, for first 2 years (three samples a year, total of six samples)	10,000	60,000	PMU and ASU

Ambient Noise Quality One location at ASU campus, thrice a year, for first 2 years (three samples a year, total of six samples)	3000	18,000	PMU and ASU
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Monitoring Component	Rate	Amount (INR)	Source of Fund
Maintenance of Plantation, Shrubs and Landscape Areas	Covered in operation and maintenance cost of ASU campus		
Capacity Building	Covered in operation and maintenance cost of ASU campus		
Maintenance of drainage system of ASU campus to avoid water logging and flooding	Covered in operation and maintenance cost of ASU campus		
Total O&M Phase Monitoring Cost (B)		198,000	
Total Cost (A+B)		4,28,000	
Contingencies @ 5 %		21,400	
Total Budgeted Cost (INR)		4,49,400 (approx. 4,50,000)	

Source: Approved IEE Report ASU Campus construction package

F. Environmental Monitoring and Reporting

25. The PMU with the assistance of PMC monitors the progress of EMP implementation during construction phase. During operation phase PMU safeguard cell in close coordination with ASU operations and management teams will take care of EMP implementation.
26. During construction phase, CSQA firm team with guidance from PMC and PMU environmental specialists submits monthly monitoring and implementation reports to ASUP. The PMU environmental specialist, with the assistance of PMC environmental specialist, prepares semi-annual environmental monitoring reports for submission to ADB on behalf of EA. The semi-annual monitoring report covers monitoring results, identifies the necessary corrective actions, and reflects them in a corrective action plan. The frequency of submission of environmental monitoring reports to ADB will be reduced to annual in the operation phase. These reports on annual basis will be prepared by the PMU environmental specialist and submitted to ADB till project completion report is issued by the ADB. Monitoring reports will be posted in ADB website and in other IA locations accessible to the public after approval.
27. If there are any unanticipated impacts found during implementation, the EA, through the PMU will update the IEE and EMP or prepare a new environmental assessment and EMP to assess the potential impacts, evaluate the alternatives, and outline mitigation measures and resources to address those impacts.
28. ADB will review project performance against the EA's commitments as agreed in the legal documents. The extent of ADB's monitoring and supervision activities will be commensurate with the project's risks and impacts. Monitoring and supervising of social and environmental safeguards will be integrated into the project performance management system. ADB will monitor the project on an ongoing basis until a project completion report is prepared.

V. COMPLIANCE WITH ENVIRONMENT RELATED PROJECT LOAN COVENANTS AND REGULATORY REQUIREMENTS

A: Compliance with Project Loan Covenants

29. The compliance with environmental loan covenants is given in **Table-10** below:

Table 10: Status of Compliance with loan covenants relating to environment

SL.NO.	Covenant	LA Reference	Status
1.	The Borrower shall ensure, or cause the EA to ensure, that no works contract is awarded which involves environmental impacts until the EA has: (a) prepared, submitted and obtain final approval of the IEE from ADB and the relevant forest and environmental clearance from statutory authorities of the borrower and the state as applicable, and (b) Incorporated the relevant provisions from the EMP into the related Works contract.	Schedule 4, Para 8	Complied with IEE reports prepared for construction packages and approved by the ADB. Relevant provisions from the EMP are part of contract documents.
2.	The Borrower shall ensure, or cause the EA to ensure, that the preparation, design, construction, implementation, operations and decommissioning of the Project and all project facilities shall comply with (a) all applicable laws and regulations of the Borrower and the state relating to environment, health and safety; (b) the Environmental Safeguards (c) all measures and requirements set forth in the IEE and the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Schedule 4, Para 10	Being Complied with (a) All applicable laws are being followed during the project implementation (b) All environmental safeguards are being complied with. (c) All measures specified in IEE, EMPs and corrective measures identified in EMRs are being implemented.
3	The Borrower shall ensure, or cause the EA to ensure, that all necessary budgetary and human resources to fully implement the EMP and the IPP as required, are made available on a timely basis.	Schedule 4, Para 13	Complied with , PMU have staff to have responsibility for social and environmental safeguards Budget for EMP compliance is indicated in the Civil Contracts

B: Compliance with Regulatory Requirements

30. The status of compliance with the regulatory requirements for the ASU project is summarized in **Table-11** below:

Table-11: Status of Regulatory Compliances for the ASU Project

Regulatory Compliances	CW01 Construction Package	CW02 Construction Package	ASU Project Overall	Remarks/Action points
Permission for the Borrow earth for filling	No fill works in this package, so not applicable.	Applied for permission for earth cutting in Revenue Dept. (In process) Royalty payment done. Final permission letter yet to be issued.	Borrow earth permission letter awaited from district administration.	CW02 Contractor should complete the process soon and submit the NOC to the employer
Consents to establish for batching plant and DGSet	Not applicable, since no batching plant planned by the contractor and DG set used is below 1MV	CTE for batching plant and DG set issued by SPCB and attached in the report.	Not Applicable	CTO to be obtained by the CW02 contractor before start of operations of batching plant and DG
Labor licenses (including for migratory laborers as applicable)	Application process initiated in Commissionerate of labour (Acknowledgement received). No migrant labourers in the reporting period Boundary Wall works to start from end of Feb 2023.	Issued for 100 workers. No migrant labourers in the reporting period (contractor has confirmed through letter).	Not applicable	1.CW01 need to obtain the labour license before commencement of works, including for migrant workers, if any. 2. For future works migrant labour expected in CW02 contract. The contractor needs to apply for migrant labour license 3. The number of workers of CW02 contractors at site are well within the numbers specified in labor license.
Labour Insurance	Initiated by Contractor, PMU yet to receive copy. The CW01 contractor not mobilized at site	Workmen compensation insurance policy issued for 40 skilled and 60	Not Applicable	Both the contractors should ensure that insurance policy should be adequate for all

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Regulatory Compliances	CW01 Construction Package	CW02 Construction Package	ASU Project Overall	Remarks/Action points
	during the reporting period.	unskilled workers available.		category of workers at site, (skilled, semiskilled, employees and unskilled workers).
Source approval of construction material	The contractor has identified sources of construction materials compliant with the environmental regulations of GoA and Gol.	The environmental clearance letter of quarry for sand from the State Level Environmental Impact Assessment Authority (SEIAA) has been submitted by CW02 contractor . CW02 has been instructed to sign an MoU with the quarry for supply of materials.	Not Applicable	Both the contractor should obtain source of construction materials compliant with the environmental regulations of Gol and GoA. This should be completed before start of procurement of construction materials.
Ground Water extraction approval from competent authority	Ground water withdrawal approval-application submission completed, permission awaited	Ground water withdrawal approval-application submission completed, permission awaited	Not Applicable	Both contractors should obtain permission for ground water extraction from the competent authority.
Consent to Establish (CTE) from Assam State Pollution Control Board for ASU Project	Not Applicable	Not Applicable	The application process initiated in the reporting period. CTE is expected in next reporting period**.	CTE obtaining process to be completed by the PMU at the earliest.
Bio-MedicalWaste Management Rules 2016	Not Applicable	Not Applicable	The bio-medical waste likely to be generated in the operation phase.	Bio-Medical Waste Management Rules 2016 to be followed in operation phase
Construction and DemolitionWaste Management Rules 2016	Not Applicable in the current reporting period. No construction or demolition waste generated.	Not Applicable in the current reporting period. No construction or demolition waste generated.	Not applicable in reporting period	None
Building and Other ConstructionWorkers (Regulations of	The workers will be employed by thecontractor for	The workers will be employed by the contractor	Applicable for the project.	Overall compliance of these rules to be

Regulatory Compliances	CW01 Construction Package	CW02 Construction Package	ASU Project Overall	Remarks/Action points
Employment and Conditions of Service) Act, 1996	the construction and these rules will be applicable during construction phase for proper occupational, health and safety measures at site.	for the construction and these rules will be applicable during construction phase for proper occupational, health and safety measures at site.		ensured by the contractors and PMU

(** The CTE for ASU project obtained in August 2023)

VI. PUBLIC CONSULTATION AND INFORMATION DISCLOSURE

A. Process of Consultations Followed

31. The detailed design and construction of ASU campus and facilities does not involve any elements which could have an adverse impact on the community. There is no deprivation of any sort for the residents or displacement of any groups. Particularly, with regard to environmental impacts, the subprojects (boundary wall construction and ASU campus construction) can be characterized as having no significant adverse impacts.
32. To comply with the ADB's guidelines, focused public consultations were undertaken during the site visit to the ASU site in Mangaldai.
The process of consultations was an integral part of the ASU campus design and environmental assessment, in accordance with ADB's guidelines to achieve the following objectives:
 - To educate the general public, specially potentially impacted or benefited communities, individuals and stakeholders about the proposed ASU and its detailed design and construction;
 - To familiarize the people with technical and environmental issues of the detailed design and construction of ASU campus and facilities for better understanding;
 - To solicit the opinion of the communities, local authorities and individuals on environmental issues and assess the significance of impacts due to the subproject;
 - To foster co-operation among officers of EA and IA, the community and the stakeholders to achieve a cordial working relationship for smooth implementation of the project; and
 - To identify the environmental issues relating to the proposed activity.
33. In the current reporting period, two public consultations were undertaken during the site visit to the ASU Interim Campus site in ITI Guwahati Campus (proposed site for Interim Campus). The consultations were held with the ITI Principal, Faculty Members and Students on November 16, 2022. (31 participants). The stakeholders were informed about the ASU project components and subsequent implementation in their area and their views were obtained. Another consultation was held at ASU site, Mangaldai with the local people for discussing the Grievance redressal mechanism of ASUP on 16 December, 2022 (10 participants).
34. During the consultations residents opined that there is need to provide skills and job-oriented education to the youth of Assam State so that better employment opportunities are made available to them. The project will help rural youth in getting training and skills enhancement education. The project will also provide employment and business opportunities to

local population during construction and operation phases. The local people demanded fast implementation of the overall project. The dates of consultations, issues discussed and

Sl. No	Place	Date	Consultations held with	Issues discussed
1	ASU Interim campus site	16/11/2022	ITI Principal, Faculty Members and Students, PMU-ASUP	Project components, benefits of project, implementation schedule, environmental and social impacts during project implementation, suggestions for environment protection from the participants, implementation of mitigation measures for noise generation from construction and renovation of interim campus etc. Detailed outcomes of discussion are provided in the IEE Report of the Interim Campus which will be displayed in the ADB and ASU website after approval of the IEE.
	ASU Site, Mangaldai	16/12/2022	Local people	Local people were made aware of the GRM, and the functionality of the GRM, different modes of receiving complaints, discussion about addressing environmental and social issues at site through GRM ,

stakeholders consulted are summarized in **Table 12**.

Table-12: Dates and Stakeholders Consulted and Discussion Point

B. Future Consultation and Information Disclosure

35. Most of the suggestions of stakeholders were considered in the project design. The suggestions provided till January 2023 consultations are also being taken care during the project implementation. To ensure continued public and stakeholder participation in the ASU project life cycle, periodic consultations and focus group discussion will be continued. The participatory process will ensure that all views are adequately reviewed and suitably incorporated in the design and implementation process. Further, to ensure an effective disclosure of the ASU project proposal to the stakeholders and the communities in the vicinity of site, an extensive project awareness campaign will be carried out.

Information Disclosure

Electronic version of the revised IEE has been placed in the official websites of the ASDM and ADB. On demand, any person seeking information can obtain a hard copy of the complete IEE document by paying cost of photocopy from the office of the PMU and ASU site office on a written request. The hard copies of revised IEE report summary in Assamese language are under translation and will be made available at ASDM office, Guwahati, ASU site office, Mangaldai and Deputy Commissioner office, Darrang for reference in the next reporting period.

36. The PMU will issue notification on the disclosure mechanism on its website ahead of the beginning of the subproject detailing start and end date of construction works. This will create awareness of the project implementation among the public.

C. GRIEVANCE REDRESSAL MECHANISM FOR ASUP

37. A grievance redress committee (GRC) has been formed at the site and also at PMU level to register grievances regarding technical, social and environmental issues. The detailed grievance redressal mechanism for ASUP has been approved by ADB and SEED. (Attached as annexure in previous SEMR for the period Feb-July 22). The cost for the operation of GRM will be accounted for in project cost as part of PMU operation. The complainant can approach court of law any time during the grievance redress process. The grievance redress mechanism for the project is shown below in **Figure 2**.

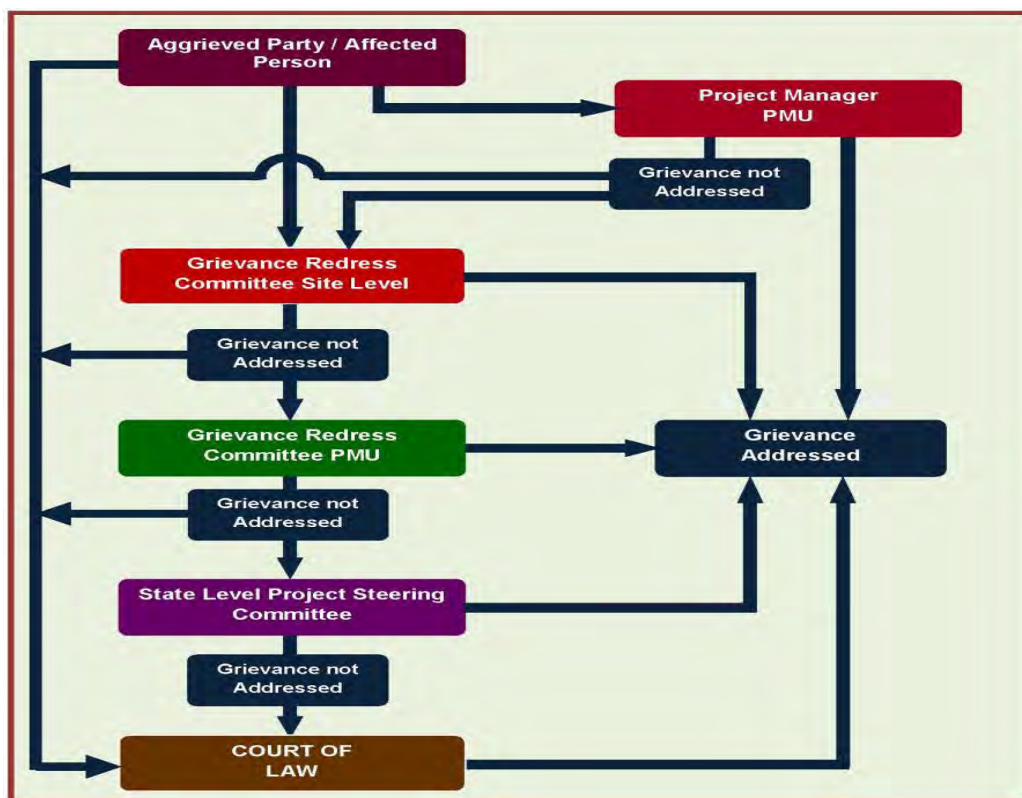


Figure 2. Grievance redressal mechanism for ASUP

Table 13: Composition of the grievance management cells and functionality

Assam Skill University Project- Loan No. L4166-IND
Semi Annual Environmental Monitoring Report for (Aug2022-Jan 2023)

Level	Stage	Members	Functionality*
Level 1	Site level	<p>Mr. Deepjyoti Baishya DPMT, Darrang (GRO 1)</p> <p>Mr. Rupom Chetia Bora Communication manager, PMU</p> <p>Ms. Ellora Kalita Civil Engineer, PMU</p> <p>Ms. Sanghita Dutta Environment Specialist, PMU</p> <p>Ms. Karishma Gogoi Gender and Indigenous people specialist, PMU</p> <p>Ms. Rekha Biswas Locally elected representative of the local panchayat</p>	DPMT/Communication manager will record the complaint from the grievance box or website to the register and intimate DPD, ASUP within 2days. GRO will conduct a meeting within 10 days. After the matter is discussed by the GRC members a letter will be issued to the complainant with the solution. If the matter is not resolved. GRO will present the matter to GRO level 2 within 7 days of level1 meeting.
Level 2	PMU level	<p>Mr. Ankur Jain CEO, ASUP/MD, ASDM (GRO 2)</p> <p>Ms. Nandita Hazarika HR &Admin, ASDM</p> <p>Ms. Karishma Gogoi Gender and Indigenous people specialist, PMU</p> <p>Ms. Sanghita Dutta Environment Specialist, PMU</p> <p>Ms. Manoshi Phukan Legal advisor, ASDM</p>	GRO will conduct a meeting within 10 days in presence of GRO level 2 and DPD, ASUP. The matter will be resolved within 30 days of receipt of complaint and a letter will be issued to the complainant with the solution. If the matter is not resolved, GRO will present the matter to GRO level 2 will escalate the matter to State level Steering Committee.
Level 3	State level, Executive agency (SEED)	Senior most Secretary, SEED, Govt of Assam	Matter will be deliberated in the SLSC meeting and complainant will be intimated about the solution by letter.

*Note: The complainant can approach the court of law anytime.

38. **Approach to GRC in ASU.** Affected person or aggrieved party can approach the GRC for redress of his/their grievances through any of the following modes:

- **Web based:** A separate corner has been developed at the ASU website so that public and affected person can register their complaints via email id given in the website (grc.asup@gmail.com)
- ASU project information board is installed at site and on this board, contact details (name, phone number and email) of complaint receiving officer is available. A grievance register and grievance box has also been put in the site for receiving complaints.
- **Telephone based:** The complainants can either make phone call or whatsapp to the registered phone number. A telephone number (8638934294) is available on the website of ASDM and ASU and at the construction site so that general public can register their

- **Postal:** The complainant can post their grievances to ASU office address put in the project board or website. (3rd Floor, DECT Complex, A.K. Azad Road, Rehabari 781008) Details of registered mobile number, email id and postal address given in ASU website in the link <https://www.asu.ac.in/contact-us.php>

The official copy of approval letter of Grievance Redressal Mechanism (GRM) was shared as annexure with the semi-annual environmental monitoring report of the reporting period of February 2022 to July 2022.

39. Further, person(s)/aggrieved party who are, or may be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism.

- Number of grievances:00
- Number of grievances resolved:00
- Number of outstanding grievances: None

[illegible]

3 (c) Project Information Board at Site

Assam Skill University Project- Loan No. L4166-IND
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VII. Safety and Housekeeping

40. The safety requirements and housekeeping are important and shall be provided utmost importance during the implementation of the project. In CW01 contract, the contractor is yet to be mobilized. The CW02 contractor site team has been sensitized on the housekeeping and safety aspects. The CW02 workers were seen using PPEs during earthworks and construction activities pertaining to the establishment of camp and site office. The CW02 contractor was also advised to keep adequate sanitation and drinking water facilities at site as well dust bins for solid waste collection and disposal.
41. For dust control, contractor was advised for frequent water sprinkling during earthworks and for noise mitigation, contractor was advised not to carry out works in night hours as well as properly barricade the site.

VIII. FUTURE ACTIONS for Follow up in the Next Reporting Period (February – July 2023)

42. Action points for follow up in the next reporting period (February– July 2023) are summarized below in **Table-14**:

Table-14: Action Points Contemplated for Follow up in the Next Reporting Period (February 2023- July 2023)

Action Point	Remarks
ASU Project	
Obtaining Consent to Establish (CTE) for the ASU project from Assam Pollution Control Board	CTE application has been submitted in Assam State Pollution Control Board. The PMU will follow up with the State Pollution Control Board for obtaining CTE in the next reporting period.
Construction vehicles to be provided with operational working alarms and blinkers while operating in reverse directions	Construction vehicles monitored regularly for operational working alarms and blinkers while operating in reverse directions. This follow up will be continued in the next reporting period also.
CW01 and CW02 contractors are required to submit periodic progress reports on environmental aspects to PMU	Submission of periodic progress reports on environmental aspects to PMU will be monitored
Disclosure of Environmental Planning documents on ASDM website in Assamese	The IEE and EMP are in the process of translation in Assamese in the current reporting period. These will be disclosed on ASDM Website in the next reporting period.
CW01 (Boundary wall) Construction Package	
Obtaining Labour License by CW01 contractor	The labour license will be obtained as soon as possible, will be followed up with the CW01 contractor.
Obtaining Labour insurance for all categories as well as for adequate number of workers	The CW01 contractor will be followed up for labour insurance for adequate number of workers and for all category of workers.
Obtaining Ground Water extraction permission from the competent authority	The ground water extraction permission for water usage for the construction purpose will be obtained in the next reporting period.
CW02 (Campus and facilities) Construction Package	

Action Point	Remarks
Updating Labour Insurance Policy (Under the Workmen Compensation Act, 1923)	CW02 Contractor has been instructed to update Labour Insurance Policy for the increasing workforce. The contractor will be followed for the revised and updated policy.
Construct camp with proper sanitation and drinking water facilities.	The contractor will be followed for construction of proper sanitation and drinking water facilities at workers' camp.
Obtain Interstate Migrant Labour License under CW02 contract	CW02 has been instructed to apply for inter state migrant license and the contractor will be followed up for receiving the migrant labor license.
Minimization of potential negative impacts on neighboring communities	Revised storm water drainage plan is to be submitted by CW02 contractor. A mitigation plan has to be prepared for coming monsoon to prevent inundation in the neighboring communities. The storm water drainage management for the monsoon season will be followed with the CW02 contractor.
Laborer accommodation and other facilities	Laborer accommodation with kitchen and toilet facilities are being constructed and contractor instructed for well ventilated and structurally safe accommodation. This will be followed in the next reporting period.
Testing of environmental parameters	Environmental parameters are being monitored quarterly. These are to be monitored in the next reporting period also. The contractor will be followed for the timely environmental monitoring.
Additional number of project information boards with contact details of focal person for grievance redressal to be displayed	CW02 contractor has been instructed to additional project information boards displaying contact details of focal person for grievance redressal. This will be followed up in the next reporting period.
Arrangements to secure the work fronts through sturdy barricading and safety nets to avoid unauthorized access and safety of locals/pedestrians/passersby to be ensured	Work fronts secured by sturdy barricading and safety nets, regular monitoring by HSE Manager. These measures will be maintained and monitored in the next reporting period also.
Construction waste and surplus earth management to be ensured	Waste management to be done as per Waste management plan submitted by CW02. To ensure that no surplus earth or waste is deposited outside the campus. The waste management at site will be closely followed in the next reporting period.
Storage areas of loose construction materials to be covered at work fronts	Loose construction materials to be barricaded and covered at work fronts. This will be monitored in the next reporting period.
First aid boxes with adequate unexpired medicines to be maintained at work fronts	Proper first aid boxes to be kept at easily available place at site with signboard. These boards are yet to be put by the contractor. Erection of these boards will be followed up with the contractors.
Fire extinguishers at sites to be maintained at recommended operating pressure range for effective usage during fire emergency	Timely monitoring of operating pressure range of fire extinguishers at sites by HSE manager. The maintenance of fire extinguishers will be followed up.
Electrical panels at sites to be provided with appropriate weather sheds	CW02 contractors being instructed to provide electrical panels with weather sheds. This will

Action Point	Remarks
	be followed up in the next reporting period also.
Placements of rubber mats or wooden planks for safety of panel operators to be ensured	Placements of rubber mats or wooden planks for safety of panel operators will be ensured. This will be monitored in the next reporting period.
CTO for Concrete Batching Plant	CW02 contractor has obtained CTE for the concrete batching plant. The CTO is to be obtained before start of batching plant. This will be followed up in the next reporting period.
Obtaining Ground Water extraction permission from the competent authority	The ground water extraction permission for water usage for the construction purpose will be obtained in the next reporting period.

43. The status of compliance for the action points contemplated in previous reporting period (August 2022 – January 2023) is detailed in **Table-15** below:

Table: 15. Action Points Identified in Previous Reporting Period (February22-July 22) and status in the Current Reporting Period (August 22-January 23)

Sl.no	Action Point Contemplated	Status of Compliance
1	Project information boards with contact details of focal person for grievance redressal to be displayed;	Project information boards with contact details of focal person for grievance redressal displayed at entrance as well as inside the project site
2	Labor attendance, accident and grievance registers to be maintained;	Contractors are maintaining labor attendance, grievance and accident registers at site.
3	The arrangements to secure the work fronts through sturdy barricading and safety nets to avoid unauthorized access and safety of locals/pedestrians/passersby to be ensured	Work fronts including excavated pits are barricaded properly at the site.
4	Construction waste and surplus earth management to be ensured	Contractor instructed to follow the Waste management plan and it is being followed.
5	Potable drinking water to be made available at active work fronts	Contractors were instructed to provide Potable /drinking water at active work fronts. This is being complied with by the contractors.
6	Usage of personal protective equipment such as helmets, reflective jackets, safety shoes, safety belts, etc. to be strictly adhered to at active work fronts;	Contractor were instructed for usage of PPEs kits during construction works. During site visits better usage of PPEs has been observed.
7	Storage areas of loose construction materials to be covered at work fronts;	It has been observed during the site visits that loose construction materials are immediately covered.
8	First aid boxes with adequate unexpired medicines to be maintained at work fronts;	First aid boxes are being maintained with adequate unexpired medicines and other surgical items.
9	Fire extinguishers at sites to be maintained at recommended operating pressure range for effective usage during fire emergency	Fire extinguishers were monitored for operating pressure range. Sand buckets also kept.

Sl.no	Action Point Contemplated	Status of Compliance
10	Construction vehicles to be provided with operational working alarms and blinkers while operating in reverse directions	Construction vehicles monitored regularly for operational working alarms and blinkers while operating in reverse directions.
11	Emergency contact numbers to be displayed at all on-going active work-fronts and sites;	Emergency contact numbers displayed at all on-going active work-fronts and sites
12	Labor quarters to be provided with basic amenities (such as cots, mattresses, mosquito nets, appropriate gender segregated sanitation facilities, provision of well-ventilated and lighted accommodation, supply of cooking gas etc.) as per requirements under Indian labor laws;	Laborer accommodation with kitchen and toilet facilities with improved facilities are being initiated.

IX: Conclusion and Recommendations

44. Based on the various aspects of EMP implementation covered in the previous sections of this Semi-Annual Environmental Monitoring Report it is concluded that (a) there were only pre-construction activities in both the construction packages; (b) The project loan covenants are being complied through and regulatory compliances are in progress and necessary actions have been taken up by both the contractors and PMU at ASDM; (c) There have been no complaints against the project and construction camps and construction workers' camps of both the contractors are being initiated; (d) The grievance redress mechanism has been activated by the ASU PMU; and (e) Stakeholder consultations are being taken by the PMU and PMC.
45. The recommendations for the next reporting period include (a) follow up on the action points contemplated in the current reporting period; (b) completion of environmental monitoring in respect of ambient air quality, water quality and noise levels as per the ADB approved IEE and environmental monitoring plans of the CW01 and CW02 construction packages; (c) Regular stakeholder consultations and incorporation of comments and suggestions of stakeholders in the project implementation ; and (d) completion of regulatory compliances activities and steps as identified in the current reporting period.

ANNEXURE 1: A. Stakeholder Consultations in November 2022 at ITI Ghy and December 2022



Attendance sheet of Consultations in November 2022 at ITI Ghy for Interim Campus






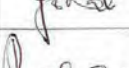

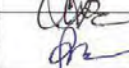
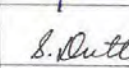
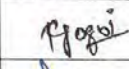
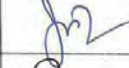
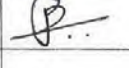

Stakeholder consultation

Date: 16.11.2022

Time:

Venue: ITI, Guwahati

Stakeholder type: ITI, Guwahati faculty

Sl. No.	Name	Organization/ Designation	Gender	Signature	Ph/mail
1	S.C. Das	VC, ASU	M		99549-44044
2	Ankur Jain	CEO, ASUP	M		
3	N.H. Majumder	ITI Guwahati	M		9435077531
4	Mlu	DOCI	F		9435076819
5	Himalay Sarmah	DPD, ASUP	M		8800188753
6	Farah Baroon	ITI, Ghy	F		8638232709
7	Naimur Uddin Ahmed	ITI, Ghy	M		9101100709
8	Manuham M. De	RTD Ghy	M		70021-71925
9	Prasom C Bora	ASUP	M		9864092261
10	Sanghita Dutta	PMU- ASUP	F		8876396955
11	Kanishma Gogoi	PMU- ASUP	F		7602361488
12	Jagadish Nain	PMU- ASUP	M		9854040350
13	Pranami Barthakur	PMU- ASUP	F		9854199413
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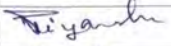
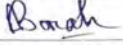



Stakeholder consultation

Date: 16th Nov. 2022

Time:

Venue: ITI, Guwahati

Stakeholder type: Student

Sl. No.	Name	Organization/ Designation	Gender	Signature	Ph/mail
1	Prigyanshi Thakur	Student - ITI, Guwahati	F		
2	Ananya Borah	"	F		
3	Minakshi Boro	"	F	Minakshi	
4	Kakali Medhi	"	F	Kakali	
5	Nikunani Sarania	"	F	Nikunani Sarania	
6	Unnoma Dikaria	"	F	Unnoma Dikaria	
7	Hamanta Bezbaruah	"	M	Hamanta Bezbaruah	
8	Shiraj Deka	"	M	Shiraj Deka	
9	Mondeep Baishya	"	M	M Baishya	
10	Nabakrishna Roukhon	"	F		
11	Sajid Ahmed	"	M	S. Ahmed	
12	Shiremoni Rakha	"	F		
13	Bibek Talukdar	"	M	Bibek	
14	Nilkamal Das	"	M	Nilkamal	
15	Rohit Kr. Thakur	"	M	Rohit Kr. Thakur	
16	Sungcing Wazisa	"	F	Sungcy	
17	Abhishek Pathak	"	M	Abhishek	
18	Sheikh Amind Hossain	"	M		

B. Consultations in December 2022 at ASU site



16Dec. 2022, ASU Site

Stakeholder Consultation

Topic of discussion: Grievance redressal mechanism

Date: 16. 12. 2022

Venue: ASU Site, Mangaldai

Participants:

Sl. No.	Name	Type of stakeholder	Gender	Social Category (ST/PWD etc.)	Signature	Phone
1	Hemalata Deka	Surrounding Community	F	NA	Hemalata	
2	Nipon Deka	"	M	NA	Nipon	
3	Dulmoni	"	F	NA	D. Nath	
4	Moni Nath	"	F	NA	M. Nath	
5	Juti Nath	"	F	NA	J.N.	
6	Karishma Gogoi	PMU-ASUP	F	NA	Gogoi	
7	Geeta Rati Nath	Community Member	M	NA	Geeta	
8	Rinu Nath	"	F	NA	R. Nath	
9	Lila Saharia	"	F	NA	Saharia	
10	Sanghita Dutta	PMU-ASUP Env. Specialist	F	NA	S. Dutta	
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ANNEXURE-2: Capacity building on environmental safeguard

Training on Social and Environmental Safeguard by PMC and PMU on 20 Jan,23



Attendance sheet during capacity building on environmental safeguard

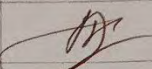
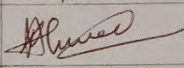

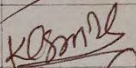
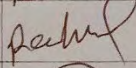
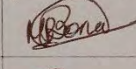
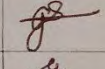
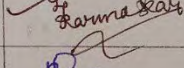
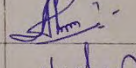
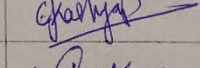
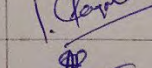
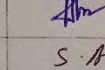
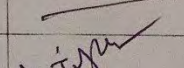
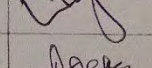
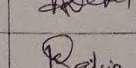
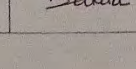
TRAINING ON SOCIAL AND ENVIRONMENTAL SAFEGUARD

Date: 20-01-2023

Time: 11. am - 2. pm

Venue: Assam Skill University Site
Mangaldai

Attendees: CW01, CW02, CS01, CS02 and local inhabitants

Sl. No.	Organization & Designation	Name	Gender	Signature	Mail
1	CW02 - General Manager	D. N. Pandey	M		
2	CW02 - HSE Manager	Kaustav Kakoty	M	K. Kakoty	
3	CW02 - Site Engineer	Bitupan	M	Bitupan Saha	
4	CW02 - Site Engineer	Mostafa	M		
5	CW02 - Surveyor	Bappa	M		
6	CW02 - Office Executive	K. P. Singh	M		
7	CW02 - Site Supervisor	Rahul	M		
8	CW01 - Site Supervisor	Koriderpamun Gona	M		
9	CW01 - Storekeeper	Gobender Das	M		
10	CS02 - Team Leader	Goutam Karmakar	M		
11	CS02 - Jr. civil	Ashrafud Alam	M		
12	CS02 - Site supervisor	Chelleyjeet Kashyap	M		
13	CS02 - Site Supervisor	Imdadul Hoque	M		
14	CS02 - Jr. Electrical Eng.	Syd Nur Alam	M		
15	CS01 - ^{EX. VISION TU} SPASITE SHAMU KHUYAN ^{ENVIRONMENTAL SP}		M		
16	CS01 - ^{EX. VISION EIS} PMAC LINGARAJ PANTA ^{SOCIAL SAFEGUARD EXPERT}	LINGARAJ PANTA	M		
17	Anima Deka, Advocate Mangaldai Bar. Association	Anima Deka	Female		
18	Karabikheti Sailia Advocate, Mangaldai Bar. Assn.	Karabikheti Sailia	F		

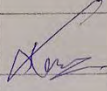
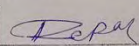
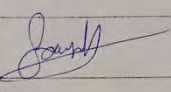
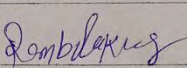
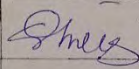
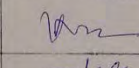
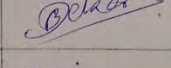
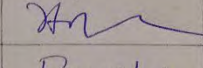

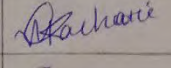
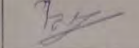
TRAINING ON SOCIAL AND ENVIRONMENTAL SAFEGUARD

Date: 20.01.2023

Time: 11. am - 2pm

Venue: ASU Site, Mangaldai

Attendees: CW-02 Workers

Sl. No.	Organization & Designation	Name	Gender	Signature	Mail
19	CW-02, Worker	Ronal Mandal	M		
20	"	Deepak	M		
21	"	K/L D/S	M		
22	"	Jasib Das	M		
23	"	Rajib Gosai	M		
24	"	Rambhar Kuy	M		
25	"	Fuluruddin	M	FULURUDDIN	
26	"	Bikash Kumar	M	Bikash Kumar	
27	"	Hareeram	M	Hareeram	
28	"	Kumud Choudhary	M	Kumud Choudhary	
29	"	Shirag Das	M		
30	"	Krishnan Sahana	M		
31	"	Phabani Seka	M		
32	"	Hitekl Hazari	M		
33	"	Rajesh choudhary	M	Rajeshchou	
34	"	Nipan Deke	M		
35	"	Namab Kachari	M		
36	"	Subhash Mandal	M		

Time: 11. am - 2 p.m

Attendees: CWO2 Donkers and PMU members

[illegible]

ANNEXURE 3: Baseline monitoring by State Pollution Control Board



ANNEXURE 4: Baseline monitoring results.

A. Ambient Air Quality



POLLUTION CONTROL BOARD, ASSAM
BAMUNIMADAM, GUWAHATI-21

Analysis Report of Ambient Air Quality monitoring sample collected from Proposed project site of ASSAM SKILL UNIVERSITY, Bidyanagar, Mangaldoi, Assam- 784125.

Report No.: AA – 67 /2022

Dated: 24.08.2022


Date of Monitoring	Place/Location	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Weather	Remarks
27.07.22	North-East direction of proposed project site of ASU.	7	16	64	20	Cloudy/	
	South-East direction of proposed project site of ASU.	5	14	32	-		
	North- West direction of proposed project site of ASU.	6	15	54	-		

Standards for Ambient Air Quality in µg/m³

Sl. No.	Pollutant	Time Weighted Average	Conc. In Ambient Air
			Industrial, Residential, Rural and Other Area
1	Sulphur Dioxide (SO ₂)	24 Hours	80
2	Nitrogen Dioxide (NO ₂)	24 Hours	80
3	Particulate Matter (Size<than10µm) or PM10	24 Hours	100
4	Particulate Matter (Size<than2.5µm) or PM2.5	24 Hours	60

Mamir
24/08/22
Addl. Chief Environmental Scientist
Central Laboratory

B. Ground water quality



POLLUTION CONTROL BOARD, ASSAM

CENTRAL LABORATORY

RAMUNIMAIDAM, GUWAHATI - 21


Test Report

REPORT NO.	GW-58/22	PAGE	1 of 2
DATE OF ISSUE	22/12/2022	SERVICE REQUEST DATE	
SERVICE REQUEST NO		Sample received on	28.07.2022
NAME & ADDRESS OF CUSTOMER		SAMPLE DETAILS	
The Project Manager PCPL & BIL (JV), 4 th Floor, Royal Arcade, B Baruah Road, Guwahati-781007		Description : Ground water	
		Sampling done by : Sri Simanta Goswami, ES	
		Date of sampling : 27.07.2022	
		Sampling Location : GW from the residence of Ram Chouhan, Geriman, Chapori, Bidya Nagar, Mangaldai, Assam (Northern side of the Project site)	
		Sampling Protocol : PCBA/LAB/W&WW/SOP/02	
		Packing : Sealed	
		Marking : Labeled	
		Quantity : 5 Lts.	
Analysis start Date : 28.07.2022		Analysis end Date : 30.11.2022	

S. No.	Parameters	Unit	Test Method	Results
Physico-Chemical Parameter				
1	pH @25°C	-	APHA 23 rd Edition, 4500-H ⁺ B: 2017	6.9
2	Electrical Conductivity	µS/cm	APHA 23 rd Edition, 2510-B: 2017	123
3	Turbidity	NTU	APHA 23 rd Edition, 2130-B: 2017	54
4	Total Suspended Solid (TSS)	Mg/l	APHA 23 rd Edition, 2540-D: 2017	-
5	Total Dissolved Solid (TDS)	Mg/l	APHA 23 rd Edition, 2540-C: 2017	78.0
6	Total Hardness as CaCO ₃	Mg/l	APHA 23 rd Edition, 2340-C: 2017	24.0
7	Calcium as Ca ⁺⁺	Mg/l	APHA 23 rd Edition, 3500-Ca B: 2017	18.0
8	Magnesium as Mg ⁺⁺	Mg/l	APHA 23 rd Edition, 3500-Mg B: 2017	6.0
9	Total Alkalinity as CaCO ₃	Mg/l	APHA 23 rd Edition, 2320-B: 2017	42.0
10	Chloride as Cl ⁻	Mg/l	APHA 23 rd Edition, 4500-Cl B: 2017	10.0
11	Fluoride as F ⁻	Mg/l	APHA 23 rd Edition, 4500-F C: 2017	0.248
12	Sulphate as SO ₄ ²⁻	Mg/l	APHA 23 rd Edition, 4500-SO ₄ ²⁻ E: 2017	4.2
13	Nitrate as NO ₃	Mg/l	APHA 23 rd Edition, 4500-NO ₃ -C: 2017	2.4
14	Residual Chlorine (RCI ₂)	Mg/l	APHA 23 rd Edition, 4500-Cl B: 2017	Nil
15	Dissolved Oxygen (DO)	Mg/l	IS 3025 (Part 38) : 1989(Reaffirmed 2003)	--
16	BOD (3 days at 27°C)	Mg/l	IS 3025 (Part 44) : 1993(Reaffirmed 2009)	--
17	COD	Mg/l	IS 3025 (Part 58) : 2006	--
18	Phosphate as P	Mg/l	APHA 23 rd Edition, 4500-P C: 2017	--
19	Total Iron (Fe)	Mg/l	APHA 23 rd Edition, 3500-Fe B: 2017	2.4
20	Lead as Pb	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.05
21	Zinc as Zn	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.06
22	Copper as Cu	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.03
23	Chromium as Cr(T)	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.06
24	Nickel as Ni	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.10
25	Cadmium as Cd	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.02
26	Mercury as Hg	Mg/l	IS 3025 (Part 48) : 1994 (Reaffirmed 2003)	0.001
27	Arsenic as As	Mg/l	APHA 23 rd Edition, 3114 C: 2017	0.01
28	Total Solid	Mg/l	APHA 23 rd Edition, 2540-G: 2017	68.0
29	Total Coliform	MPN/100 ml	APHA 23 rd Edition, 9221 B: 2017	Nil
30	Faecal Coliform	MPN/100 ml	APHA 23 rd Edition, 9221 E: 2017	Nil

End of Report

C.Surface water quality



POLLUTION CONTROL BOARD, ASSAM

CENTRAL LABORATORY

BAMUNIMAIDAM, GUWAHATI - 21

Test Report


REPORT NO.	GW-62/22	PAGE	1 of 2
DATE OF ISSUE	22/12/2022	SERVICE REQUEST DATE	
SERVICE REQUEST NO		Sample received on	28.07.2022
NAME & ADDRESS OF CUSTOMER		SAMPLE DETAILS	
The Project Manager PCPL & BIL (JV), 4 th Floor, Royal Arcade, B. Baruah Road, Guwahati-781007		Description : Surface water	
		Sampling done by : Sri Simanta Goswami, ES	
		Date of sampling : 27.07.2022	
		Sampling Location : Surface water from Mangaldai River, Mangaldai, Assam.	
		Sampling Protocol : PCBA/LAB/W&WW/SOP/02	
		Packing : Sealed	
		Marking : Levelled	
		Quantity : 5 Lts.	
Analysis start Date : 28.07.2022		Analysis end Date : 30.11.2022	

S. No.	Parameters	Unit	Test Method	Results
Physico-Chemical Parameter				
1	pH @25°C	-	APHA 23 rd Edition, 4500-H ⁺ B: 2017	6.3
2	Electrical Conductivity	µS/cm	APHA 23 rd Edition, 2510-B: 2017	416
3	Turbidity	NTU	APHA 23 rd Edition, 2130-B: 2017	20
4	Total Suspended Solid (TSS)	Mg/l	APHA 23 rd Edition, 2540-D: 2017	26.0
5	Total Dissolved Solid (TDS)	Mg/l	APHA 23 rd Edition, 2540-C: 2017	—
6	Total Hardness as CaCO ₃	Mg/l	APHA 23 rd Edition, 2340-C: 2017	102.0
7	Calcium as Ca ⁺⁺	Mg/l	APHA 23 rd Edition, 3500-Ca B: 2017	62.0
8	Magnesium as Mg ⁺⁺	Mg/l	APHA 23 rd Edition, 3500-Mg B: 2017	40.0
9	Total Alkalinity as CaCO ₃	Mg/l	APHA 23 rd Edition, 2320-B: 2017	196.0
10	Chloride as Cl ⁻	Mg/l	APHA 23 rd Edition, 4500-Cl ⁻ B: 2017	90.0
11	Fluoride as F ⁻	Mg/l	APHA 23 rd Edition, 4500-F ⁻ C: 2017	0.223
12	Sulphate as SO ₄ ²⁻	Mg/l	APHA 23 rd Edition, 4500-SO ₄ ²⁻ E: 2017	30.2
13	Nitrate as NO ₃ ⁻	Mg/l	APHA 23 rd Edition, 4500-NO ₃ ⁻ C: 2017	1.2
14	RCI ₂	Mg/l	APHA 23 rd Edition, 4500-Cl ⁻ B: 2017	—
15	Dissolved Oxygen (DO)	Mg/l	IS 3025 (Part 38) : 1989(Reaffirmed 2003)	7.4
16	BOD (3 days at 27°C)	Mg/l	IS 3025 (Part 44) : 1993(Reaffirmed 2009)	3.2
17	COD	Mg/l	IS 3025 (Part 58) : 2006	12.4
18	Phosphate as P	Mg/l	APHA 23 rd Edition, 4500-P C: 2017	0.68
19	Total Iron (Fe)	Mg/l	APHA 23 rd Edition, 3500-Fe B: 2017	1.6
20	Lead as Pb	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.11
21	Zinc as Zn	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.13
22	Copper as Cu	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.03
23	Chromium as Cr(T)	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.06
24	Nickel as Ni	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.10
25	Cadmium as Cd	Mg/l	APHA 23 rd Edition, 3111 B: 2017	0.02
26	Mercury as Hg	Mg/l	IS 3025 (Part 48) : 1994 (Reaffirmed 2003)	0.001
27	Arsenic as As	Mg/l	APHA 23 rd Edition, 3114 C: 2017	0.01
28	Total Solid	Mg/l	APHA 23 rd Edition, 2540-G: 2017	—
29	Total Coliform	MPN/100 ml	APHA 23 rd Edition, 9221 B: 2017	1500
30	Faecal Coliform	MPN/100 ml	APHA 23 rd Edition, 9221 E: 2017	730

End of Report

ANNEXURE 5: Principal Employer Registration Under Contract Labour.

STOP CHILD LABOUR


FORM II
[Rule 18 (1)]
GOVT. OF ASSAM
Office of the Commissionerate of Labour

CERTIFICATE OF REGISTRATION UNDER CONTRACT LABOUR (REGULATION & ABOLITION) ACT, 1970

UAIN :
Registration No. : LCFORMEPE/2022/00327
Date of Issue : CLL(PE)/2022/00327
22/11/2022

A Certificate of Registration containing the following particulars is hereby granted under sub-section (2) of section 7 of the Contract Labour (Regulation & Abolition) Act 1970, and the rules made thereunder, to **ASSAM SKILL UNIVERSITY**

(1) Nature of work carried on in the establishment :- **CONSTRUCTION OF ASU CAMPUS AND BOUNDARY WALL**


(2) Names and Addresses of Contractors:

S. No.	Name	Address	Nature of Work
1.	M/S A.S.ENTERPRISE	Zoo-Narengi Road Guwahati, 781024	Construction of ASU Boundary wall
2.	Pawan Communications Pvt.Ltd in JV with Brahmaputra Infrastructure Limited	4th Floor, Royal Arcade, B. Baruah Road, Guwahati- 781007	Construction of ASU Campus

(3) Nature of work in which contract labour is employed or is to be employed :- **CIVIL**

(4) Maximum number of contract labour is to be employed on any day through all the contractors :- **400 nos.**

(5) Other particulars relevant to the employment of contract labour : .




**KIMTING
SINGSON**
Digitally signed
by KIMTING
SINGSON
Date: 2022.11.22
17:53:50 +05'30'
Signature of the Registering Officer

Reference No: LCFORMEPE/2022/00327 To View: <https://eodb.assam.gov.in/t/4R9v/F04DA09E> Token No: F04DA09E

ANNEXURE 6: Principal Employer Registration Under Migrant Labour.

STOP CHILD LABOUR


GOVT. OF ASSAM
Assistant Labour Commissioner(Guwahati)
FORM 11
CERTIFICATE OF REGISTRATION UNDER INTER-STATE MIGRANT WORKMEN (RE & CS) ACT, 1979


UAIN : LCFORM1/2022/00031
Registration No. : MGW(E)/2022/00031
Date of Issue : 28/11/2022

A Certificate of registration containing the following particulars is hereby granted under Clause(a) of Sub-Section-(2) of Section-4 of the Inter-State Migrant Workmen (Regulation of employment and conditions of service) Act 1979, and the rules made thereunder to **M/S ASSAM SKILL UNIVERSITY** ,

1. Nature of work carried on in the establishment: **CIVIL-CONSTRUCTION OF BOUNDARY WALL AND CAMPUS**
2. Name and Address of contractors:

S. No.	Full Name	Street Name 1	Street Name 2	Village/Town	District	Pincode	State
1.	M/S A.S.ENTERPRISE	Zoo- Narengi Road	Guwahati, 781024	GUWAHATI	KAMRUP METRO	781024	ASSAM
2.	Pawan Communications Pvt.Ltd in JV with Brahmaputra Infrastructure Limited	4th Floor, Royal Arcade	B. Baruah Road	Guwahati	KAMRUP METRO	781007	ASSAM

3. Nature in which migrant workmen are to be employed or are employed: **CIVIL**
4. Maximum no. of migrant workmen to be employed on any day through each contractor: **400**
5. Other particulars relevant to the employment of migrant workmen:



Reference No: LCFORM1/2022/00031 To View: <https://eodb.assam.gov.in/t/Kx0v/9F59A2CC> Token No: 9F59A2CC

ANNEXURE 7: Acknowledgement of Contract Labour License Application by CW01


Application Acknowledgement

Date: 07/02/2023



Dear **A S ENTERPRISE** ,

Thank you for using EODB Portal.

Your application for **License of a Contractor(s) in Form IV under Section 12 of the Contract Labour (R & A) Act, 1970 and Rule 21 (1) of the Assam Rules** has been successfully submitted to **Office of the Commissionerate of Labour, Assam**

Application Summary

Application Reference Number is LCFORMIVCL/2023/01700

Payment Details :

Treasury Challan No : AS005905768202223P AS005910658202223P
Payment Date : 07/02/2023

Payment Breakup :

Application Fees + Late Fine (if Applicable) :Rs. 200 under 0230-00-101-0000-000-01

Security Fees :Rs. 3000 under 8443-00-116-0000-000-01

Your application was received by **Online** on **07/02/2023** .

ANNEXURE 8: Contract Labour License of CW02

STOP CHILD LABOUR


FORM-VI
[See Rule-25(1)]

Office of the Commissionerate of Labour
LICENSE UNDER CONTRACT LABOUR (REGULATION & ABOLITION) ACT, 1970

UBIN : 618/959453/NOPAN/12/2022
UAIN : LCFORMIVCL/2022/22602
License No. : CLL/2022/22602
Date of Issue : 16/12/2022

1. Licence is hereby granted to **PAWAN COMMUNICATIONS PVT LTD IN JV WITH BRAHMAPUTRA INFRASTRUCTURE LIMITED** under Section 12(1) of the Contract Labour (Regulation and Abolition) Act, 1970 subject to the conditions specified in the Annexure.

2. The Licence is for doing the work of **CONSTRUCTION OF ASU CAMPUS AND FACILITIES**, in the Establishment of **MISSION DIRECTOR ASSAM SKILL DEVELOPMENT MISSION CUM CEO ASSAM SKILL UNIVERSITY PROJECT**, C/O. GOVT. OF ASSAM at DECT, REHABARI, GUWAHATI, KAMRUP METRO - 781008, ASSAM.

3. The Licence shall remain in force till **01/12/2023**.

4. Maximum No of contract labour proposed to be employed in the establishment on any date : **100 nos.**

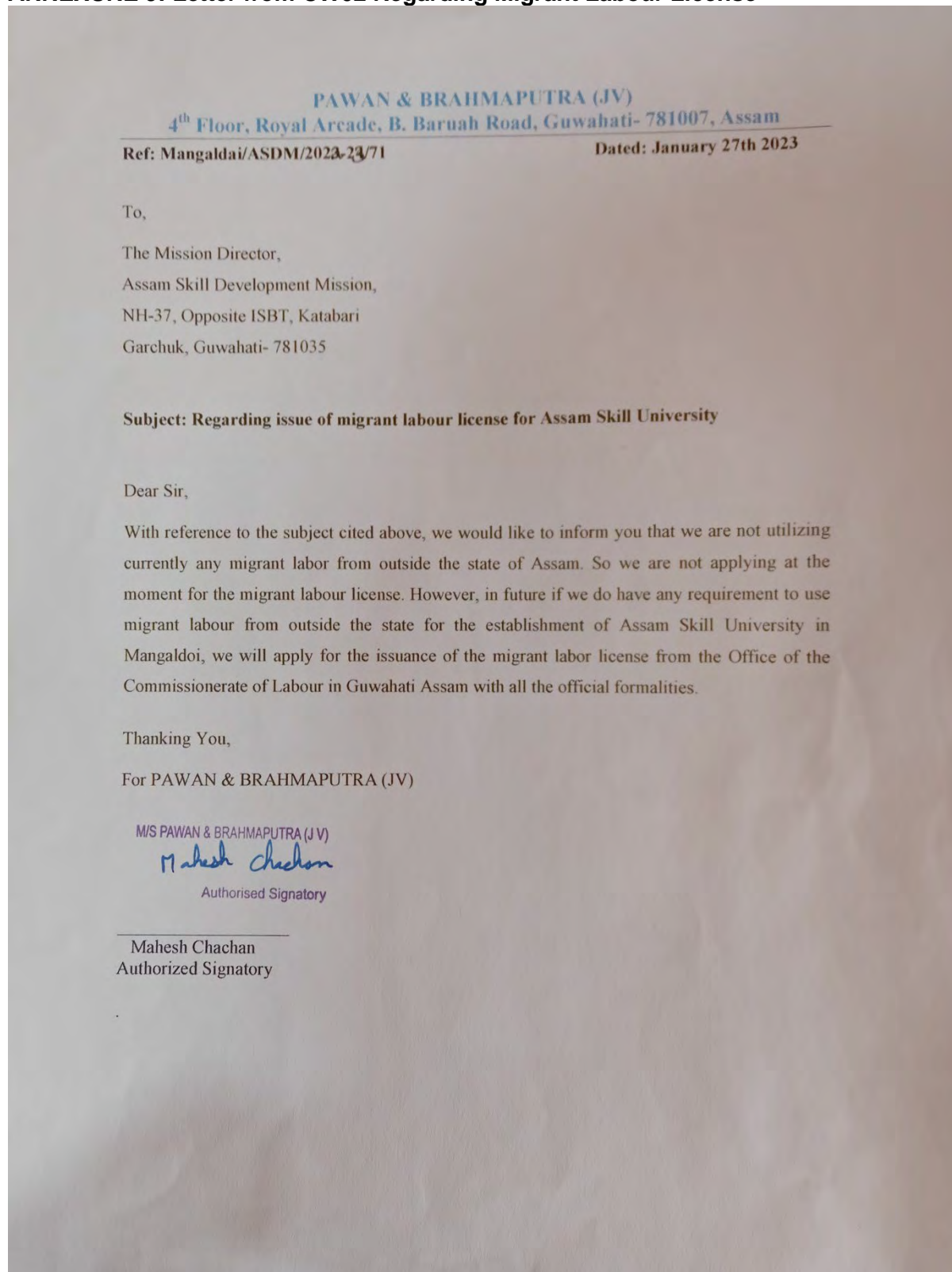


KIMTING SINGSON
Digitally signed by
KIMTING SINGSON
Date: 2022.12.16
16:48:40 +05'30'
Signature of the Licensing Officer

STOP CHILD LABOUR

Reference No: LCFORMIVCL/2022/22602 To View: <https://eodb.assam.gov.in/t/ReCv/0451AB59> Token No: 0451AB59

ANNEXURE 9: Letter from CW02 Regarding Migrant Labour License



ANNEXURE 10: Insurance Policy of CW02 workers



IFFCO - TOKIO GENERAL INSURANCE CO. LTD

Regd. Office: IFFCO SADAN, C1 Distt. Centre, Saket, New Delhi- 110017

Workmen's Compensation Policy Schedule

Cum Tax Invoice

ORIGINAL FOR RECIPIENT

GST Applicable



Servicing Office:

1-B, 1st Floor,

Aditya Tower

G S Road, Dispur,

Guwahati-781006 Assam

State Code: 18; GSTIN: 18AAACI7573H7Z5

General Insurance Services : 997133

Insured's name:	PAWAN COMMUNICATIONS PVT LTD & BRAHMAPUTRA INFRASTRUCTURE LIMITED (JV)			Unique Invoice No.....	43278313
Address:	4TH FLOOR ROYAL ARCADE PART II			Policy No.....	43278313
	ULUBARI, GHY			Date of Issuance.....	23/11/2022
	GUWAHATI ASSAM Pincode: 781007			Policy effective from 0001 hrs 18/11/2022	
State Code/ Place of Supply:	18	Country Name:	India	GSTIN:	
Phone Number:		C/N No:		Agent No. A5000039 A5A	To Mid Night 17/11/2023
Aadhaar No.:				Agent Name: UPADHYAY, KAILASH	

	Taxable Value	CGST	SGST	IGST	CESS
Rate		9.00	9.00	0.00	0.00
Amount	31942.00	2874.78	2874.78	0.00	0.00
Total Tax		₹5749.56		Total Value	₹37691.56

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	Construction of Assam Skill University Campus
Place of Employment(s)	ASSAM SKILL UNIVERSITY CAMPUS, MANGALDOI, ASSAM
	PINCODE-784125

Sr. No.	Category of Employee	Estimated Total Wages, Salaries and other e	Rate (%)	Premium without Service Tax (Rs.)
1	40 SKILLED WORKER 18000	8640000.00	0.1849	15971.00
2	60 UNSKILLED WORKER 12000	8640000.00	0.1849	15971.00
		Overall Total Wages	17280000.00	

Additional Clauses / Endorsements / Other details, if any
Nature of Work : Civil Construction

Signature Not Verified

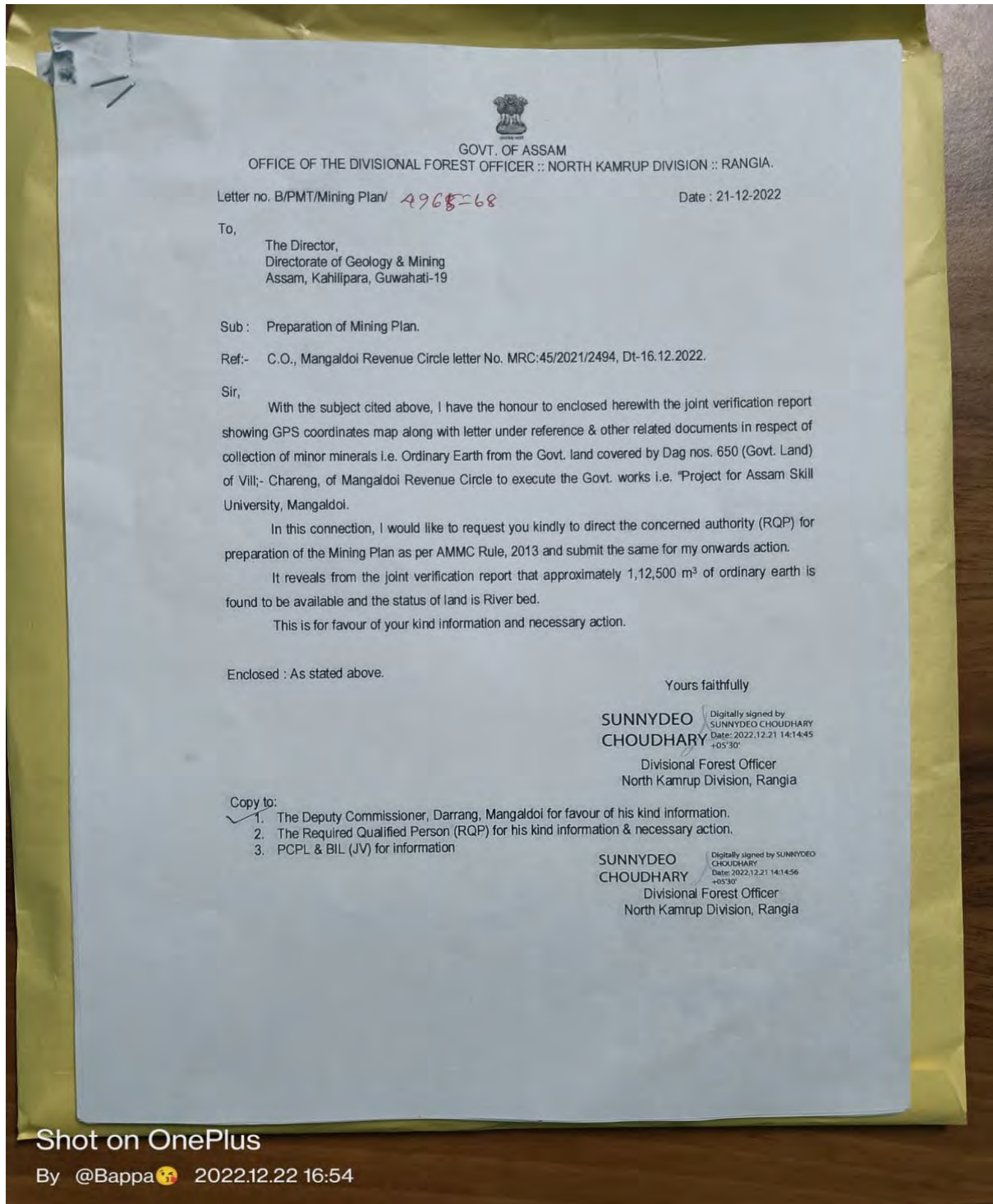
Digitally signed by SUBRATA MONDAL
Date: 2022.11.23 12:57:44 IST
Reason: Valid Policy Copy
Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIN : IRDAN106RP0006V01200001)

Attaching to and forming part of Policy Number 43278313

Show Signature Properties-->Click on "Show signer's Certificate"-->Go to Tab "Trust"-->Click on "Add to Trusted Certificates"-->Click on "OK"-->Click on "Close"

ANNEXURE 11: Documents for Earth cutting NOC



Royalty payment challan for earth by CW02

E-CHALLAN

NAME:	PAWAN AND BRAHMAPUTRA JV
GRN NO:	AS005516342202223P
PRN NO:	3769120892039
BANK Transaction No:	10004672023012703531
BANK NAME	SBI PAYMENT GATEWAY (Charges Applicable)
CHALLAN NO:	3769120892039
Date	3/N-/27-J
Forest Transaction ID	10004672023012703531
Amount	1999980
Head Account	ROYALTY
DEPARTMENT ID	A01+TPAB1480444887609118
PAYMENT STATUS	Payment Sucess

EC granted for collection of Sand and Gravel from Rowta S/G Mahal

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ASSAM
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE, GOVT OF INDIA
BAMUNIMADAM, GUWAHATI 781021, ASSAM

No. SEIAA 1630/2021/EC/14 /1437
Dated: 7/5/2021
Proposal No. SIA/AS/MIN/188152/2020

To
Sri Krishna Narzari
Vill. Dakshin Naoherua
P.O. Pathakpur
Dist. Udalguri, BTAD, Assam

Sub: - Environment Clearance for Collection of Sand & Gravel from "Rowta S/G Mahal" under Mazbat Range of Dhansiri Forest Division, Dist. Udalguri, BTAD, Assam by Sri Krishna Narzari.

This has reference to your application for Prior Environmental Clearance dated 05/10/2019 along with Form-1M, Mining Plan, D.F.O. letter, Google map with G.P.S. Co-ordinates and other relevant documents for Collection of Sand & Gravel from "Rowta S/G Mahal" under Mazbat Range of Dhansiri Forest Division, Dist. Udalguri, BTAD, Assam.

The quantity of Sand & Gravel to be collected is:

Sand:	4,250 cu.m (Four Thousand Two Hundred Fifty) only for 2(Two) years @ 2,125 cu.m (Two Thousand One Hundred Twenty Five) only for per year.
Gravel:	8,500 cu.m (Eight Thousand Five Hundred) only for 2(Two) years @ 4,250 cu.m (Four Thousand Two Hundred Fifty) only for per year.
Total Allotted area:	4.79 Ha.
Mining Area:	4.45 Ha.

The Sand & Gravel shall be extracted only from the area of the GPS Co-ordinates shown below as per Mining plan:

<u>Longitude (East)</u>	<u>Latitude (North)</u>
1. E- 92°13'50.9"	N- 26°50'57.9"
2. E- 92°13'58.1"	N- 26°50'58.1"
3. E- 92°13'38.3"	N- 26°50'58.3"
4. E- 92°13'39.2"	N- 26°50'39.2"

The Sand & Gravel shall be extracted manually/semi mechanized way from "Rowta S/G Mahal" under Mazbat Range of Dhansiri Forest Division, Dist. Udalguri, BTAD, Assam.

The proposal was examined and processed in accordance with EIA Notification 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC), Assam examined the documents of the proposal for Collection of Sand & Gravel at its meeting held on 03/04/2021. Accordingly, the application was discussed and thoroughly scrutinized by the SEAC and found that the project falls under I(a) and considered as B2 Category of EIA Notification 2006 and subsequent amendment. The Committee recommended the project to the SEIAA, Assam for issuance of Environmental Clearance.

Based on the recommendation of the SEAC, the State Environment Impact Assessment Authority, Assam (SEIAA) considered the proposal in its meeting held on 12/04/2021 and accords Prior Environmental Clearance to the project as mentioned above under the provisions of EIA notification 2006 and its subsequent amendments issued under Environment Protection Act 1986 subject to compliance of following specific and general conditions.

The operational area of mining must be confined to the given 4.79 Ha area bound by the coordinates mentioned above and there shall not be any other area of mining contiguous to this.

Member Secretary
State Level Environment Impact
Assessment Authority, Assam.

Page 1 of 4

ANNEXURE 12: Consent To Establish From Pollution Control Board, Assam



Pollution Control Board:: Assam
Bamunimaidam; Guwahati-21
(Department of Environment & Forests :: Government of Assam)
Phone: 0361-2652774 & 2550258; Fax: 0361-2550259
Website: www.pcbassam.org



No. WB/TEZ/T-2219/22-23/07

Dated Guwahati the 30th December 2022

CONSENT TO ESTABLISH

'CONSENT TO ESTABLISH' (CTE), under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 as amended and Rules framed thereunder, is granted to:

- i) Name of Unit : M/s. Pawan Communications Pvt Ltd (in JV with Brahmaputra Infrastructure Limited).
- ii) Name of the Applicant and Designation : Sri Mahesh Chachan, Operations Director.
- iii) Address of the unit : Assam Skill University Project, Bidyanagar, Mangaldai, Dist- Darrang, Assam-784125
- iv) Cost of the Unit : Rs. 43.00 Lakhs
- v) Type of the Unit : Concrete Batching Plant (Orange Category)
- vi) Details of Unit:

Sl No.	Product	Quantity/ Capacity
1	Ready Mix Concrete	208 m ³ /day

TERMS AND CONDITIONS:

1. The Consent to Establish (CTE) has been accorded based on the particulars furnished by the applicant vide Application ID 1606651 and subject to addition of further or more conditions if so warranted by subsequent developments. The CTE will automatically become invalid if there any changes, modification, alteration, expansion or deviation made in actual practice.
2. CTE will be valid till the date of commissioning of the unit or seven (7) years whichever is earlier.
3. The CTE may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - a) Violation of any Terms and Conditions of this CTE;
 - b) Obtaining the CTE by misrepresentation or failure to disclose fully all relevant facts;
 - c) If any genuine complaint is received;
4. The unit shall obtain prior 'Consent to Establish' from the Board for any further expansion, alteration, modification, modernization of the project.
5. The project authority shall install a Display Board as per the Boards notification no.PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021 (Appendix-A).
6. Proper housekeeping shall be maintained. The unit shall not burn any solid wastes inside the premises.
7. As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981, as amended, any Officer, empowered by the Board on its behalf shall have without interruption, the right at any reasonable time to enter the unit for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial of this right will cause withdrawal of the Consent Order.
8. The project proponent shall develop a greenbelt/plantation area with native trees covering atleast 33% of the total plot area.

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-2-

9. The unit shall obtain 'Consent to Operate' (CTO) from the Board before commissioning.

Specific Conditions:

A) Air Aspect:

1. The unit shall install Screening machine, if any, with proper enclosure and dust extraction mechanism.
2. The following pollution control measures shall be implemented by the project authority to control source emission as well as fugitive emission
 - a) Dust containment cum suppression system at all material transfer & dropping points to control fugitive emissions.
 - b) Construction of metalled road inside the unit premises.
 - c) Regular cleaning and wetting of ground within the premises.
3. The unit shall comply with ambient noise level standard, notified by the MoEF & CC, Govt. of India vide GSR 7, dated Dec.22, 1998 as mentioned herein under-

Limit in dB (A) Leq	
Day Time (6:00am-9:00pm)	Night Time (9:00pm-6:00am)
75	70

4. The Ambient Air Quality within the Plant premises shall be maintained within the National Ambient Air Quality Standards, notified by the MoEF & CC, GOI, vide GSR 826(E) dtd.16.11.2009, especially with respect to PM_{2.5}, PM₁₀, as mentioned herein under-

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural & Other Area	Ecologically Sensitive Area (notified by Central Government)
1.	PM ₁₀ (µg/m ³)	Annual* 24 hours**	60 100	60 100
2.	PM _{2.5} (µg/m ³)	Annual* 24 hours**	40 60	40 60

B) Water Aspects:

1. Details of source of water, consumption of water, effluent generation etc.
 - a) Source of water- Ground water
 - b) Raw water consumption- 10 KL/Day
 - c) CGWA Permission- Not obtained
2. Permission/Exemption of the Central Ground Water Authority shall be obtained for extraction of Ground Water, as applicable.
3.
 - i) Storm water shall not be allowed to mix with effluent and/or floor washing.
 - ii) Storm water within the battery limits shall be channelized through separate drain/pipe passing through an Oil and Grease trap cum Sedimentation tank.
 - iii) The unit shall install Effluent Treatment Plant (ETP) to treat the waste water. The unit shall maintain Zero Liquid Discharge (ZLD) condition.
 - iv) For discharge storm water, the unit shall comply with the general discharge standard notified by the MoEF & CC, Govt. of India vide GSR.422 (E) dated.19.05.1993 (Appendix-B)
4. Rain water harvesting facility shall be installed and maintained.

C) Solid Waste Aspect:

1. Adequate facility should be created for collection, storage, transportation, treatment and disposal of non-hazardous solid waste generated from the unit.
2. Adequate system should be adopted on reduction of waste generation and enhancement of re-utilization and recycling of waste materials.
3. Solid waste generated in the unit shall be disposed of as per the provisions of the Solid Waste Management Rules 2016.

Mr. 3/4

Contd....P/3

-3-

D) Plastic Waste Aspects:

1. Plastic Waste generated in the unit shall be disposed of in accordance of the provisions under the Plastic Waste Management Rules, 2016.
2. The unit shall submit report annually regarding generation and disposal of plastic wastes within 30th June every year.

The unit shall submit compliance report of the mandated conditions by April, 15, every year to Member Secretary, PCBA as well as to Regional Office, Tezpur, PCBA till the completion of the project. The Board will have the liberty to withdraw the CTE if adequate pollution control and safety measures are not implemented by the unit.

//
(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/GUW/T-2219/22-23/07-A

Dated Guwahati the 30th December 2022

Copy to:

✓ M/s Pawan Communications Pvt Ltd in JV with Brahmaputra Infrastructure Limited,
Assam Skill University Project , Bidyanagar, Mangaldai, Dist- Darrang, Assam-784125
for information and compliance of conditions.

msg 43
(Shantanu Kr. Dutta)
Member Secretary

Appendix-A



Pollution Control Board, Assam
Bamunimaidam, Guwahati-21

NOTIFICATION

No. PCBA/LGL-95/2021/Notification/01

Dated Guwahati, the 11th Nov, 2021

In exercise of the powers conferred under Section-5 of the Environment (Protection) Act, 1986 as amended till date and keeping in view the need of public interest towards dissemination of vital information regarding Consent/Authorization of this Board, all industries are hereby directed to install a Display Board of minimum size 5'x4', near the main entrance gate.

The format of the display board is given below:

Name and Address of the Unit : M/s.	
Description of Consent/Authorization	Details
Consent to Establish (CTE)	No.: Date of Issue:
Consent to Operate (CTO)	No.: Date of validity:
Authorization under Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016 (if applicable)	No.: Date of Issue: Date of validity:


Member Secretary

Memo No. PCBA/LGL-95/2021/Notification/01-A

Dated Guwahati, the 11th Nov, 2021

Copy to:

- ✓ The Commissioner & Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur for kind information.
- P.A. to the Chairman, PCBA for kind appraisal of the Hon'ble Chairman.
- The All Regional Heads, PCBA for information & necessary action.
- M/S APS Advertising Pvt. Ltd, Guwahati-1. They are requested to publish the "NOTICE" in "the Assam Tribune" and "Dainandini Barta" on 12.11.2021.
- Notice Board, Head Office / Website (www.pcbassam.org), PCBA.


Member Secretary

APPENDIX- B

The Environment (Protection) Rules, 1986

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¹[SCHEDULE – VI]
(See rule 3A)

GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL
POLLUTANTS PART-A : EFFLUENTS

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
1.	Colour and odour	See 6 of Annexure-I	--	See 6 of Annexure -I	See 6 of Annexure-I
2.	Suspended solids mg/l, Max.	100	600	200	(a) For process waste water- 100 (b) For cooling water effluent 10 percent above total suspended matter of influent.
3.	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	--	--	(a) Floatable solids, max. 3 mm. (b) Settleable solids, max. 850 microns.
² 4.	***	*	--	***	--
5.	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6.	Temperature	shall not exceed 5°C above the receiving water temperature	--	--	shall not exceed 5°C above the receiving water temperature

¹ Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

² Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No.G.S.R.801(E), dated 31.12.1993.



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The Environment (Protection) Rules, 1986

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
7.	Oil and grease mg/l Max.	10	20	10	20
8.	Total residual chlorin mg/l Max.	1.0	--	--	1.0
9.	Ammonical nitrogen (as N), mg/l Max.	50	50	--	50
10.	Total Kjeldahl Nitrogen (as NH ₃) mg/l, Max.	100	--	--	100
11.	Free ammonia (as NH ₃) mg/l, Max.	5.0	--	--	5.0
12.	Biochemical Oxygen demand ¹ [3 days at 27°C] mg/l max.	30	350	100	100
13.	Chemical Oxygen Demand, mg/l, max.	250	--	--	250
14.	Arsenic (as As), mg/l, max.	0.2	0.2	0.2	0.2
15.	Mercury (as Hg), mg/l, Max.	0.01	0.01	--	0.01
16.	Lead (as Pb) mg/l, Max.	0.1	1.0	--	2.0
17.	Cadmium (as Cd) mg/l, Max.	2.0	1.0	--	2.0
18.	Hexavalent Chromium (as Cr+6), mg/l max.	0.1	2.0	--	1.0

¹ Substituted by Rule2 of the Environment (Protection) Amendment Rules, 1996 notified by G.S.R.176, dated 2.4.1996 may be read as BOD (3 days at 27°C) wherever BOD 5 days 20°C occurred.

The Environment (Protection) Rules, 1986

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S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
19.	Total chromium (as Cr.) mg/l, Max.	2.0	2.0	--	2.0
20.	Copper (as Cu) mg/l, Max.	3.0	3.0	--	3.0
21.	Zinc (As Zn.) mg/l, Max.	5.0	15	--	15
22.	Selenium (as Se.) mg/l, Max.	0.05	0.05	--	0.05
23.	Nickel (as Ni) mg/l, Max.	3.0	3.0	--	5.0
¹ 24.	***	*	*	*	*
¹ 25.	***	*	*	*	*
¹ 26.	***	*	*	*	*
27.	Cyanide (as CN) mg/l Max.	0.2	2.0	0.2	0.2
¹ 28.	***	*	*	*	*
29.	Fluoride (as F) mg/l Max.	2.0	15	--	15
30.	Dissolved Phosphates (as P), mg/l Max.	5.0	--	--	--
² 31.	***	*	*	*	*
32.	Sulphide (as S) mg/l Max.	2.0	--	--	5.0
33.	Phenoile compounds (as C ₆ H ₅ OH) mg/l, Max.	1.0	5.0	--	5.0

¹ Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No.G.S.R.801(E), dated 31.12.1993.



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The Environment (Protection) Rules, 1986

S. No.	Parameter	Standards			
		Inland surface water	Public Sewers	Land for irrigation	Marine coastal areas
1	2	3			
		(a)	(b)	(c)	(d)
34.	Radioactive materials :				
	(a) Alpha emitter micro curie/ml.	10^{-7}	10^{-7}	10^{-8}	10^{-7}
	(b) Beta emitter micro curie/ml.	10^{-6}	10^{-6}	10^{-7}	10^{-6}
35.	Bio-assay test	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent	90% survival of fish after 96 hours in 100% effluent
36.	Manganese (as Mn)	2 mg/l	2 mg/l	--	2 mg/l
37.	Iron (as Fe)	3 mg/l	3 mg/l	--	3 mg/l
38.	Vanadium (as V)	0.2 mg/l	0.2 mg/l	--	0.2 mg/l
39.	Nitrate Nitrogen	10 mg/l	--	--	20 mg/l
40.	***	*	*	*	*

Handwritten signature/initials

¹ Omitted by Rule 2(d)(i) of the Environment (Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801(E) dated 31.12.1993

ANNEXURE 13: Application for Fire Fighting Approval

PAWAN & BRAHMAPUTRA (JV)
4th Floor, Royal Arcade, B. Baruah Road, Guwahati- 781007, Assam

Ref: Mangaldai/ASDM/2022-23/70
10.22.23

Dated: January 27th 2023

To,

The Director,
Fire & Emergency Services,
Assam, Guwahati

Subject: Request for Issuance of "No Objection Certificate" for the establishment of Assam Skill University

Dear Sir,

With reference to the subject cited above, we would like to inform you that 250 Bighas of land of village Gerimari Chapori under Rangamati mauza of Mangaldoi Revenue Circle has been handed over in favor of Mission Director, Assam Skill Development Mission, Govt. of Assam vide letter no. MRC 1/2011-12/Pt-3/595 dated 20/10/2021 (Letter attached), for establishment of Assam Skill University. We, therefore need a "No Objection Certificate" from the Fire & Emergency Services for establishment of the Assam Skill University in Mangaldoi. This is for your kind information and necessary action.

Thanking You,

For PAWAN & BRAHMAPUTRA (JV)

M/S PAWAN & BRAHMAPUTRA (JV)
Mahesh Chachan
Authorized Signatory

Mahesh Chachan
Authorized Signatory

Forwarded to
The Director
Fire and Emergency Services
Assam.
for needful.

J. SHARMA
PTM
ASUP.

Received by
[Signature]
31/01/23
Sr. Station Officer
Mangaldoi Fire & Emergency Service
Station, Darrang (Assam)

ANNEXURE14. Photographs of Initiation works of Labour Camps and toilets of CW02



Project Title: India: Assam Skill University Project

Project Number: 53277

Report Title: Semi-annual Environmental Monitoring Report (Aug22-Jan23)

Version	Date (report)	Prepared by	Reviewed By	Approved By
Initial Report	Feb 2023	 Sanghita Dutta	 Sanghita Dutta	
Revision	30 Dec 2023	 Sanghita Dutta  Shreeniwas Verma  S. Bhushan	 Sanghita Dutta  Shreeniwas Verma  S. Bhushan	
Revision	26 Feb 2024	 Sanghita Dutta  Shreeniwas Verma  S. Bhushan	 Sanghita Dutta  Shreeniwas Verma  S. Bhushan	

Signed by:

Mr. Himalay Sarma, (DPD, ASUP)

Mr. Shreeniwas Verma (Consultant, ADB)

Ms. Sanghita Dutta (PMU, ASUP)

MR. Shashi Bhushan (PMC, ASUP)

