

Semi Annual Environmental Monitoring Report

Reporting period: August 2024 -January 2025

ADB Project Number:53277-002

Loan number: 4166-IND

India: Assam Skill University Project

May- 2025

Prepared by Assam Skill University Project (ASUP) 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
GOI	:	Government of India
GRC	:	Grievance Redress Committee
GRM	:	Grievance Redress Mechanism
IEE	:	Initial Environment Examination
IA	:	Implementing Agency
MPOFCC	:	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 01 May 2025)

Currency unit–Indian rupee (Rs)

Rs1.00= \$0.011854

\$1.00=Rs 84.58

WEIGHTS AND MEASURES

µg	–	microgram
dB(A)	–	Weighted decibel
km	–	kilometer
km ²	–	Square kilometer
m	–	meter
m ²	–	Square meter

This Environmental Safeguard monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

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

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I. INTRODUCTION

A. Background

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) was the implementing agency (IA) of the project which has been transitioned to Assam Skill University via letter from SEED, Ecf No. SEED/183109/167 dated 26.06.2024. (Annexure 2) ASDM had 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 (334828.083m²) plot near Mangaldai in Darrang district. The interim campus for Assam Skill University is operating from the Government Industrial Training Institute (ITI) Guwahati. ITI Guwahati is located at A.K. Azad Road, Birubari and is well connected with various modes of transport. The interim campus development work has been completed in the reporting period.

B. Project Profile

2. Location: The location of ASU under construction campus is near Mangaldai in Darrang district of Assam. The latitude and longitude of the ASU under construction campus site are given below in **Table-1**. The ASU Interim Campus site is an unencumbered land at the ITI campus in Guwahati, owned by the Government and falls in Kamrup Metropolitan district. The Kamrup Metropolitan district geographically lies between the latitude 25° 94' 11"N and longitude 91°28'91"E. The location coordinates of interim campus are also given in **Table-1** below:

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
3	Assam Skill University Interim Campus	26°16'48"N	91°74'47"E

3. The nearest rail head to Mangaldai is Tanga at about 35 km and Rangia Junction 48 km away from the ASU site. The ASU project site is well connected to important destinations such as Guwahati, New Jalpaiguri, Rangia and Nalbari. The Interim campus site at ITI Guwahati is located at a distance of 3 km from Guwahati Railway Station, 9 km from the Guwahati Interstate Bus Terminal and 25 km from the Guwahati Airport. The project sites (main campus and interim campus) are well connected to important destinations. The distances of important destinations are given below:

**Table-2: Distances of important destinations from ASU under Construction
Campus site and ASU Interim Campus**

Sl. No.	Name of Facility	Altitude(m)	District	Distance from ASU site
1.	ASU	51.24	Darrang	Guwahati : 70 Km Airport : 72 Km Guwahati City : 107 Km Tezpur : 68 Km Nalbari : 52 Km IIT Guwahati : 43 Km Udalguri : 303 Km Alipurduar : 323 Km Cooch Behar : 5Km Mangaldai : 123 Km Barpeta : 141 Km Morigaon : 141 Km
2.	ASU Interim Campus	55	Kamrup Metropolitan	Guwahati Station: 03Km Airport : 25Km Guwahati ISBT : 12Km Tezpur : 174Km Nalbari : 71Km IIT Guwahati : 21Km Udalguri : 110Km Alipurduar : 302Km Cooch Behar : 322Km Mangaldai : 84Km Dispur : 06Km

4. The Assam Skill University campus site is a vacant land in the ownership of Assam Skill University (ASU), Government of Assam in Darrang district. The Darrang district geographically lies between the latitude 20° 9' N to 26° 96' N and longitude 91° 45' E to 92° 22' E. During the current reporting period, 28 households adjacent to the Assam Skill University campus had approached the District Commissioner to voluntarily shift to another adjacent land of the University for ease of access to the main road. Hereby, a social safeguard due diligence study was conducted by the social safeguard experts of PMU and PMC to assess the IR and IP impacts due to the voluntary shifting of the families. Furthermore, although the families have voluntarily relocated and vacated areas at the ASU main campus, it has been confirmed that no construction work has commenced or planned on the affected areas. The trees in the areas have been marked and protected by forest officials. There is no effect on the environment due to the shifting and as such the EMP need not to be updated for the civil contracts. The new and old layout map is presented in the Annexure 20. The ASU Interim Campus site is an unencumbered land owned by the government and is in the Kamrup Metro District. The Kamrup Metropolitan district geographically lies between the latitude 25.9411°N and longitude 91.2891°E.

5. Civil works for Assam Skill University project (both for interim campus and under construction campus at Mangaldai) have been classified as Category B according to the Safeguard Policy Statement (SPS), 2009 of ADB as no significant impacts are envisioned. An Environmental Management Plan (EMP) which addresses the potential impacts and risks identified by the environmental assessment has been prepared. The level of details and complexity of the EMP and the priority of the identified measures and actions are commensurate with the Project's impact and risks. The EMP is part of bidding and contract documents to comply with ADB's SPS, 2009.

6. The ASU project has four Civil Contracts CW- 01 (Land preparation and boundary wall for ASU campus), CW- 02 (Detailed design and construction of ASU campus and Facilities), CW-03 (Upgrading of ASU Interim Campus), CW-04 (Construction of remaining boundary

wall works of ASU campus). Project overview and project progress are summarized in **Tables 3 and 4**.

Table-3: Project Overview, Snapshot of Project Progress

Project Number and Title:	Project Number:53277 -002 Loan: 4166-IND Title: Assam Skill University Project	
Safeguards Category	Environment	B
Reporting period:	August 2024 to January 2025	
Next report date:	August 2025	
Key sub-project activities	1. Land preparation and boundary wall construction works for ASU campus (CW- 01) 2. Detailed design and construction of ASU campus and facilities (CW-02) 3. Upgrading of ASU Interim Campus (CW-03) 4. Construction of remaining boundary wall of ASU Campus (CW-04)	
Report prepared by:	PMU & PMC environmental safeguards specialist	

7. Details of project activities at the end of January 2025 are presented in **Table 4**.

Table-4: Work Progress at each Sub-project

Sl. No.	CONTRACT	CONTRACT NAME	CONTRACTOR	STATUS	AWARD DATE	COMPLETION DATE	% COMPLETION OF PHYSICAL WORK AS ON 31/01/2025
1.	CW-01*	Land preparation and boundary wall for ASU campus	M/s A.S. Enterprise	Work Completed	30 th September 2021	31 st May 2024)	100
2.	CW-02	Detailed design and construction of ASU campus and facilities	M/s Pawan Communication Pvt. Ltd. In JV with Brahmaputra Infrastructure Ltd.	Work In Progress	2 nd November 2021	2 nd Nov 2024 extended till September 2025	38.74
3	CW-03*	Upgrading of ASU Interim Campus	M/s Mechfab Engineering Industries PVT. Ltd.	Work Completed	6 th December 2023	25 th June 2024	100
4	CW-04	Construction of remaining boundary wall works of ASU Campus	M/s Bhaskar Baruah	Work In Progress	30 th March 2024	30 th March 2025	66.37

*The contractor completed scope of works specified in contract and was under demobilization in reporting period.

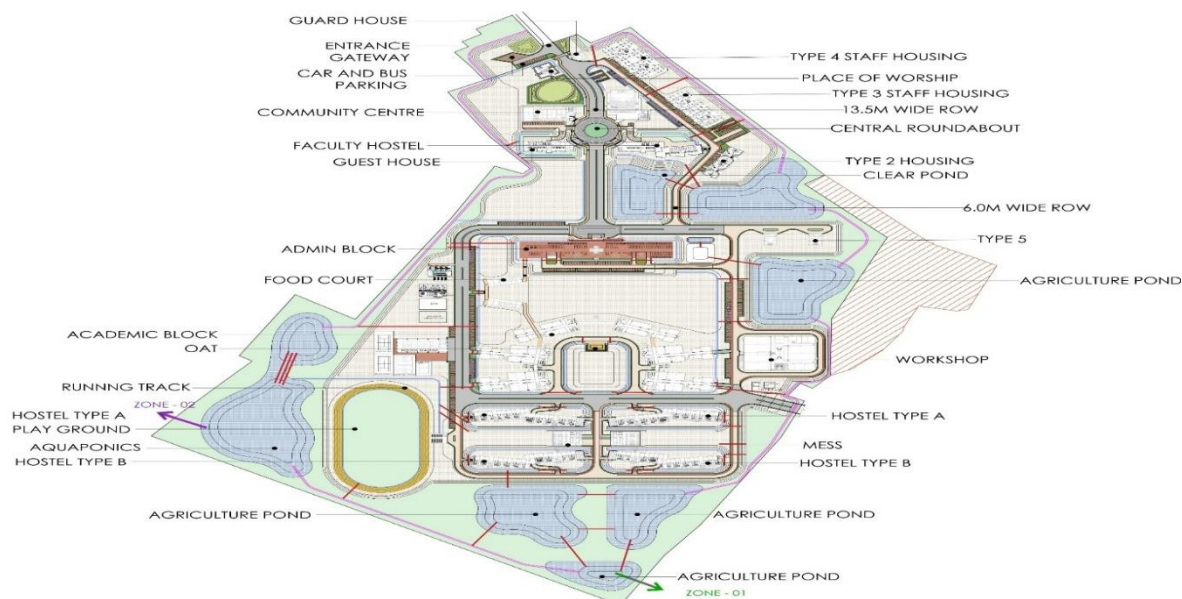
8. This Semi-Annual Environment Monitoring Report presents the status of the project implementation, details of compliance with environmental regulations of the Government of Assam and Government of India (GoI) and policies of ADB, details of compliance with environmental loan covenants, details of complaints received (if any) and their redress and the status of compliance with various aspects of EMP.

9. Monitoring compliance with EMP is a continuous activity carried out by the PMU & PMC. Guidelines on general construction Environmental safeguard measures to be followed / implemented and compliance with EMP by the contractors have been issued to the contractors. There is a compilation of EMP compliance on a monthly basis. This is the consolidated report on the implementation of Environmental Management Plans (EMPs) of individual subprojects/project components from August 2024-January 2025, and is prepared in compliance with ADB's SPS 2009 and Loan Covenants.

10. **Storm water drainage:** The ASU site is drained by Brahmaputra River (at an aerial distance of about 5 km in monsoon months) and its tributaries (mainly Mangaldai River). **Internal drainage-** The average ground level of the site is at 52 M RL and considering the HFL for past 20 years as 54.20 M and 100 years as 56.11 M the building plinth level and road levels are being constructed at higher levels to avoid water logging during monsoon. The drainage system for the campus has been designed following the guidelines of Central Public Health & Environmental Engineering Organization (CPHEEO) Manual for storm water drainage management 2019 and Central ground water board and the water accumulated in the available catchment area/ponds of the ASU site based on the average runoff and rainfall intensity of the place. Two major outlets have been considered on the western side and southern side of the ASU Campus to drain out the overflow water from the Campus to nearest rivers to Noanadi at south west side and to Mangaldai river at south east side.

11. **External drainage-** A Storm water drainage channel from Zone 1 outlet to Mangaldai river (length of 1.0 Km) and from Zone 2 to Noanadi river (length of 1.451 Km) will be constructed by Water Resource Dept, Darrang division. This channel will receive the excess storm water from the campus to the nearby rivers. In this reporting period, detailing of the internal drainage plan is in process, and the external drainage plan has been submitted to IIT Guwahati for vetting before implementation at site by the WRD Dept.

Figure 1: Storm water drainage plan of ASU with two zones



II. ENVIRONMENTAL REGULATIONS AND STATUS OF REGULATORY AND LOAN COVENANTS COMPLIANCES

A. Environmental Legal Requirements

12. Following regulations are currently in force in India that deals with environmental issues that could apply to infrastructure development. Acts and Rules pertaining to monuments and archeological sites are also listed herein.

- i. The Water (Prevention and Control of Pollution) Act, 1974, amended thereof.
The Water (Prevention and Control of Pollution) Rules, 1975
The Water (Prevention and Control of Pollution) Cess Rules, 1978
- ii. The Air (Prevention and Control of Pollution) Act, 1981, amended 1987. The Air (Prevention and Control of Pollution) Rules, 1982.
- iii. The Environmental (Protection) Act, 1986, was amended in 1991 and including the following Rules/Notification issued under this act:
 - The Environmental (Protection) Rules, 1986, including amendments.
 - The Solid Waste Management Rules, 2016
 - The Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016
 - The Bio-Medical Wastes (Management) Rules, 2016
 - Noise Pollution (Regulation and Control) Rules, 2000
 - Environmental Impact Assessment Notification, 2006 and amended thereof.
 - Environmental Standards of Central Pollution Control Board (CPCB)
- iv. The Indian Wildlife (Protection) Act, 1972, amended thereof. The Wildlife (Protection) Rules, 1995 The Indian Forest Act, 1927
- v. Forest (Conservation) Act, 1980, amended thereof. Forest (Conservation) Rules, 1981 amended thereof. Guidelines for diversion of forest lands for non-forest purpose under the Forest (Conservation) Act, 1980
- vi. Ancient Monuments and Archaeological Sites and Remains Act, 1958 Ancient Monuments and Archaeological Sites and Remains Rules 1959 Government of India Notification 1992 under the above stated Rules Ancient Monuments and Archaeological Sites and Remains (Amendment and Validation) Act, 2010
Ancient Monuments and Archaeological Sites and Remains (Amendment and Validation), Rules 2011.

B. Compliance with Environmental Regulations

13. India's environmental rules and regulations, as relevant for the construction of ASU project, are described in Section "A" above. The Environmental Impact Assessment (EIA) Notification, 2006 issued by the Ministry of Environment, Forests and Climate Change (MOEF&CC, GOI) specifies the requirements for mandatory environmental clearances. All projects and activities are broadly categorized into two categories—category 'A' and category 'B', based on the spatial extent of potential impacts on the environment, human health, and natural and man-made resources. However, MOEF&CC's Notification- S.O. 3252, dated 22/12/2014 amended further as notification F. No 19-2/2013-IA-III dated 09.06.2015 & F.No 19-131/2019-IA-III (128798) dated 19.05.2022) under Environment Impact Assessment Notification, 2006 for (Industrial Shed and Educational Institutions) exempts all educational and training institutes from obtaining prior environmental clearance. However,

building and construction projects are to follow sustainable environmental management guidelines provided in the above notification. These guidelines are being followed during the construction stage of the project. (Attached in Annexure 21). The ASU main campus components to be constructed including the boundary wall construction and upgrading of ASU Interim Campus will not require any prior environmental clearances according to the environmental rules and regulations of India.

14. Consent to Establish (CTE u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 has been obtained for Batching Plant and DG set. The ASU Project CTE no. PCBA/TEZ/T-2314/23-24/6 granted for ASU by Pollution Control Board, Assam. The CTE will be valid till the date of commissioning of the ASU or 5 years, whichever is earlier. The project does not require any other clearances (such as Forest and Wildlife clearances). The labor license and workmen insurances are valid till end of the reporting period for all the ongoing construction packages (i.e. CW-02 and CW04) of the ASU project. The construction materials are being procured from sources compliant with environmental regulations of GoI and GoA. The status of regulatory compliances has been summarized below in **Table-5**.

Table-5: Status of Environmental Regulations Compliances

Applicable Environmental Safeguard Regulation	CW01 (Boundary wall of ASU Campus)	CW02 (ASU Campus Mangaldai)	CW03 (Interim Campus Guwahati)	CW04 (Balance work of ASU Boundary Wall)
Contract labour license Migrant labour license	n/a contractor demobilised	Form-VI License under Contract labour CLL/2024/HN17226053952174 O dated 02.08.2024 valid till 07.06.2025 for 650 workers (Annexure 6) Form 11 Inter-state Migrant labour registration no. MGW(E)/2023/401697620025 0772U dated 18.10.2023 valid till completion of project for 150 workers (Annexure 7)	n/a contractor demobilised	Contract labour License No. CLL/2024/401732116949 981J3 dated 20.11.2054 for 100 numbers in force till 19.11.2025 (Annexure 8) No migrant labour at site
Insurance Policy (Employee-Compensation)		IFFCO TOKIO GENERAL INSURANCE LTD Workmen's Compensation Policy Schedule Insurance policy no 43345070 valid till 17.11.2025 for 950 workers (Annexure 9)		Insurance policy no 4010/348862191/00/00 valid till 23.06.2025 (estimated number of employees -30) Policy no. 4010/368727318/00/00 valid till 15.04.2025 (estimated number of employees - 70) (Annexure 10)
Extraction of Ground water NOC		Ground water abstraction NOC obtained by contractor from CGWA. Valid till 30.03.2028		Exemption under Para 1.0 (v) of guidelines CGWA - 21-4/3615/AS/INF/2024 (Annexure 14)
CTE for ASU		CTE no PCBA/TEZ/T-2314/23-		The existing DG is of

Applicable Environmental Safeguard Regulation	CW01 (Boundary wall of ASU Campus)	CW02 (ASU Campus Mangaldai)	CW03 (Interim Campus Guwahati)	CW04(Balance work of ASU Boundary Wall)
project		24/6 granted for ASU on 10.08.2023 by Pollution Control Board, Assam. The CTE will be valid till the date of commissioning of the ASU or 5 years, whichever is earlier.		25 Kva. The CTE has been exempted vide (ASPCB notification WB/T-333/2022-2023/44 dated 13.12.2022)
CTE/CTO for batching plant		Plant 1: Batching plant capacity 208m ³ /day and DG capacity 125KVa - CTO was obtained and valid till 31.03.24, which has been further renewed and valid till 31.03.2025 – no PCB/TEZ/T-430/2024-25/22 dated 18 th Sep 2024 Plant 2: Batching plant capacity 208m ³ /day and 2 DG capacity with 125KVA and 62.5 KVA CTO no WB/TEZ/T-2219/22-23/23 dated 18.09.2024. Valid till 31.03.2025 (Annexure 13)		No batching plant DG capacity less than 10Kva (CTE, CTO exempted)
Source approval of construction materials		Supplier details:- Mowamari 1. Ordinary Earth mining permit approved – with letter no GM/MM/86-B(40)/Pt. V/4714-17 dated 23.11.2023 from Directorate of Geology & Mining, Assam. 2. Stone chips and dust by M/s Daorao Stone Crusher and screening plant –CTO no WB/TEZ/T-2144/22-23 dated 15.06.2024 valid till 31.03.2025 3.BTC [Bodoland Territorial Council] Forest royalty paid on January 2025 (Annexure 12)		CW04 contractors all material received at site with P-eTP (Non notified) Pink Electronic Transit Pass issued by Divisional Forest Officer Dhansiri Forest Division.

Note: CW-01 & CW03 civil construction completed.

C. Compliance of Environmental Loan Covenants

15. **Table 6.** shows the environmental safeguard related loan covenants and their compliance status during implementation of the Project. All the covenants are being complied with.

Table-6: Status of Compliance with loan covenants relating to environment

Sl.No.	Covenant	LA Reference	Status
1	The Borrower, the State and the EA shall ensure that the Project is implemented in accordance with the detail arrangements set forth in the	Schedule 4, Para1	Being Complied with The environmental safeguards are being implemented as per the implementation arrangements stated

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Sl.No.	Covenant	LA Reference	Status
	PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower, the State, the EA and ADB. In the event of any discrepancy between the PAM and the Loan Agreement, the provisions of this Loan Agreement shall prevail.		in the PAM document.
1.	The Borrower shall ensure, or cause the EA to ensure, that no works contract is awarded which involve s 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	Being Complied with
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, Para10	Being Complied with
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, Para13	Being Complied with PMU has resources (Environmental and Social Specialist) for social and environmental safeguards implementation. Budget for EMP compliance is indicated in the Civil Contracts
4	The Borrower shall ensure, or cause the EA to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures and requirements relevant to the contractor set forth in the IEE and the EMP and any corrective or preventative actions set forth in a Safeguards Monitoring Report. (b) make available a budget for all	Schedule 4, Para 14	Being Complied with (a) The IEE report and EMPs of individual subprojects/ components are part of bid and contract documents and corrective actions taken as per need. (b) Necessary budget is available for mitigation measures. (c) So far, no unanticipated environmental impacts are foreseen. If any such impacts are foreseen, ASU will inform ADB.

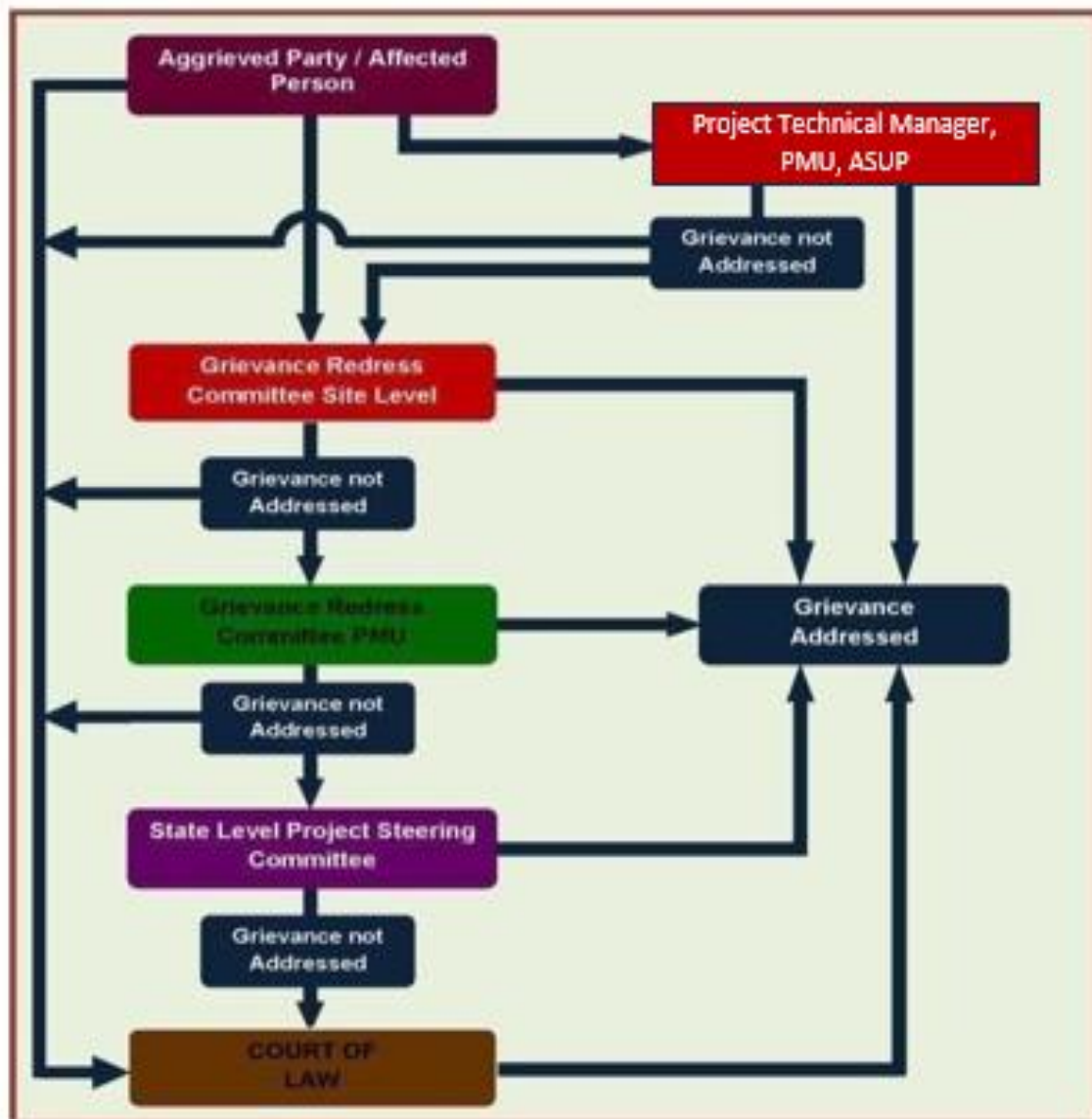
Sl.No.	Covenant	LA Reference	Status
	<p>such environmental and social measures.</p> <p>(c) provide the EA with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE or the EMP.</p> <p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>		<p>(d)The conditions of access roads and surroundings of project components (boundary wall, ASU campus, interim and campus site) have been photographed in the pre-construction phase.</p> <p>(e) The access roads, pathways, agriculture land and other infrastructure used will be reinstated to original conditions at the end of construction phase of each individual sub-projects/project components.</p>
5	<p>The Borrower shall cause or cause the EA to ensure, the following:</p> <p>(a) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission.</p> <p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE or the EMP, as applicable, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any breach of compliance with the measures and requirements set forth in the EMP promptly after becoming aware of the breach.</p>	Schedule 4, Para 15	<p>Being Complied with.</p> <p>(a) Semi-annual safeguards monitoring reports are being submitted to ADB and disclosed on websites of ASU</p> <p>(b) So far, no unanticipated environmental impacts are foreseen. If any such impacts occur, ADB will be informed.</p> <p>(c) There has been no breach of compliance till the end of reporting period.</p>
6	The Borrower shall ensure, or cause the EA to ensure, that no proceeds of the Loan under the Project are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Schedule 4, Para 16	<p>Being Complied with.</p> <p>None of the ASU project activity is in the list of prohibited activities specified in Appendix 5 of ADB SPS 2009.</p>
7	The Borrower, shall ensure or cause the EA to ensure, that Works contracts under the Project follow all applicable labor laws of the Borrower and the State and that these further	Schedule 4, Para 18	<p>Being Complied with.</p> <p>All applicable labour laws are followed.</p> <p>(a) HIV/AIDS awareness program are being carried out by the ASU PMU</p>

Sl.No.	Covenant	LA Reference	Status
	include provisions to the effect that contractors (a) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (b) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.		and contractor(s) of sub-projects. Information on HIV/AIDS and Sexually Transmitted Diseases are also being carried for the construction work force at the construction sites of the ASU project. (b) The child labours are not employed at the ASU project sites. The sanitation and drinking water facilities, safety measures are being provided as per regulatory requirements and as detailed in the EMP document. The contracts have provisions for termination if there is any breach. There is equal pay for equal work without discrimination of gender.

D. Grievance Redress Mechanism under the Project

16. A grievance redress committee (GRC) has been formed at the site level and at PMU level to register grievances regarding technical, social, and environmental issues (Annexure 3). The complainant can approach court of law any time during the grievance redress process. The cost for the operation of GRM will be accounted for in project cost as part of PMU operation. The grievance redress mechanism for the project is shown below in Figure 2. However, if any grievance comes to the contractor, he will immediately inform the GRO Level 1 at site level for further necessary action.

Figure-2: Grievance Redressal Mechanism of ASUP



1. The complainant can approach court of law anytime during the grievance redress process.

III. COMPLIANCE STATUS WITH ENVIRONMENTAL MANAGEMENT PLAN

a. EMP and Monitoring Plan Objectives

17. The EMPs of the respective construction packages outline the mitigation and monitoring to be undertaken during project implementation and operation to avoid, minimize, or control adverse environmental impacts, as well as the actions and resources needed to implement these measures. The EMPs reflect the commitment to environmental management and should serve as an environmental operation manual for use by management and project staff, contractors, and regulatory authorities. These EMPs 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 and EMP Implementation Status During ASU Project Implementation

18. 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 EMP was also attached to all the signed contracts. The status of compliance to EMP implementation during construction and operation stages for all 4 construction packages has been provided in Tables **7,8,9 and 10**.

Table-7: Status of Compliance to EMP of Boundary wall Contract- CW01:
Operation Phase Environmental Management Plan for Boundary Wall Construction

Sl. No.	Environmental Issues	Mitigation Measures	Status			Remarks/Action taken	Follow up actions
			Yes	No	NA		
Operational Phase							
1	Safety risks	The boundary wall will be well maintained and manned for the security of ASU.	√			The Project Technical Team at the site ensures that the boundary wall is properly maintained. Additionally, the condition of boundary wall will be continuously monitored for security purposes during the operational phase of the ASU campus, particularly at the commencement of the academic session.	None
2	Unhygienic conditions due to poor maintenance of sanitation facilities and irregular solid waste collection	The ASU Management will carry out maintenance of the toilets at the entrance gates, and carry out the regular waste collection from gate office and disposal of the waste to the local disposal site. The septic tanks will be maintained and emptied regularly.	√			The labour camps, toilets and site office have been demolished. The entrance gate and toilets at the entrance gate will be constructed at a later date by the newly appointed contractor.	None
3	Onsite emergency plan for minor accidents and mishaps and Disaster Management Plan for Natural Calamities	The Management Team of ASU will prepare on site emergency plan for possible minor accidents and mishaps during operation phase. For natural calamities, the disaster management plan prepared by Darrang district administration will be followed.	√			The onsite emergency plan for minor accidents and mishaps has been prepared for the ASU campus by CCF Consultant (TA-ADB). For natural calamities, the disaster management plan prepared by Darrang district administration will also be followed	None

Table-8:Status of Compliance to EMP of ASU Campus and facilities package (CW02):
Construction Phase Environmental Management Plan for ASU Campus and facilities package

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
Construction Phase							
1	Regulatory compliances	Following regulatory compliances shall be ensured at site: 1. Environmental clearances of sand and subgrade quarries/crushers, concrete batching plant and hot-mix plants (construction material sources) 2. Labor license from Government of Assam. 3. Copies of medical insurance and accident insurance coverage for all workers at site. 4. Utility shifting permissions. 5. Consent to establish from Assam Pollution Board Control	√			CTE no PCBA/TEZ/T-2314/23-24/6 granted for ASU on 10.08.2023 by Pollution Control Board, Assam. The CTE will be valid till the date of commissioning of the ASU or 5 years, whichever is earlier. Plant 1: Batching plant capacity 208m³/day and DG capacity 125KVa - CTO was obtained and valid till 31.03.24, which has been further renewed and valid till 31.03.2025 – no PCB/TEZ/T-430/2024-25/22 dated 18 th Sep 2024. Plant 2: Batching plant capacity 208m³/day and 2 DG capacity with 125KVA and 62.5 KVA CTO no WB/TEZ/T-2219/22-23/23 dated 18.09.2024. Valid till 31.03.2025 (Annexure-13) IFFCO TOKIO GENERAL INSURANCE LTD Workmen's Compensation Policy Schedule Insurance policy no 43345070 valid till 17.11.2025 for 950	Renewal of CTO after March 2025

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
						workers (Annexure-9)	
2	Sanitation, drinking water facilities and accommodation of construction workers at construction camp	<p>The contractor shall provide sanitation facilities at the campsite. These facilities will include dustbins in adequate numbers for solid waste collection, drinking water facilities, and separate toilets for male and females. These toilets facilities shall be well maintained, and septic tanks/soak pits shall be provided at the toilets. The dust bins shall be regularly emptied and waste from camp site shall be disposed off at designated locations.</p> <p>The accommodation shall be well lighted and ventilated and will have amenities such as water supply and sanitation as explained above.</p>	√			<p>Sanitation facilities like dust bin for solid waste collection, drinking water facilities, and sufficient toilets for male (no female worker at site) with septic tank at the camp site provided.</p> <p>The accommodation is ventilated and has amenities such as water supply and sanitation.</p>	None.
3	Traffic circulation Plan during construction phase	Prior to commencement of site activities and mobilization on ground, the contractor will prepare and get approved (from local traffic police after the review of CSQA firm) traffic circulation plan during construction for safe passage of public vehicles so that locals are not at inconvenience. The contractor will carry out dissemination of these information and traffic circulation plan at ASU construction site.	√			Traffic management plan has been prepared by the contractor, reviewed by PMU and PMC specialists and implemented at site.	None
4	Clearance activities, including delineation of construction areas	<p>Only ground cover shrubs, if any, that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the environmental specialists of PMU and PMC.</p> <p>All areas used for temporary construction operations will be subjected to complete restoration to their former conditions with appropriate rehabilitation procedures. The photographic records shall be maintained for the temporary sites Used for construction. These will help in proper restoration.</p>			√	<p>The presence of shrubs was minimal at site. No trees were required to be removed. In the reporting period, no clearance activities taken up in the reporting period, hence this is not applicable.</p> <p>Areas used for temporary construction operations will be restored at the end of construction phase</p>	None
5	Drinking water availability	Sufficient supply of potable water to be provided	√			Supply of potable water	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
	at construction camp and construction site	and maintained. If the drinking water is obtained from an intermittent public water supply, then storage tanks will be provided. For this, contractor will submit plans which detail how availability of drinking water shall be assured.				provided (RO plant) at different work fronts and maintained at site.	
6	Waste disposal	<p>The pre-identified disposal location shall be part of comprehensive waste disposal plan. Solid waste management plan to be prepared by the contractor in consultation with local civic authorities.</p> <p>The environmental specialist of PMU shall approve these disposal sites after conducting a joint inspection on the site with the contractor and PMC environmental specialist.</p> <p>Contractor shall ensure that waste shall not be disposed off near water stream in the surroundings of site and along the access path.</p>	√			<p>Solid waste management plan has been prepared by contractor.</p> <p>The contractor with the assistance of PMU, PMC and local civic body has identified location for the disposal of construction wastes.</p> <p>During the reporting period no waste disposed outside the premises. It is stored within the site for possible re-use in future.</p>	None
7	Stockpiling of construction materials	<p>Stockpiling of construction materials will be done in such a way that it does not impact and obstructs the drainage and movements of locals for accessing their agriculture fields.</p> <p>The stockpiles will be covered by tarpaulin sheet to protect from dust and erosion. The stock piles shall be bunded so that these are not washed away during intense rainfall.</p>	√			<p>Construction materials stored at proper locations earmarked for the storage areas.</p> <p>Stockpiles covered by tarpaulin sheets to avoid dust & erosion and bunded also so that these are not washed away during intense rainfall.</p>	None
8	Arrangement for construction water	<p>The Contractor shall provide a list of locations and type of sources from where water for construction shall be acquired.</p> <p>To avoid disruption/ disturbance to other water users, the contractor shall arrange water from market or from local municipality and consult PMU before finalizing the source.</p>	√			<p>Contractor is using ground water for construction purpose and has taken NOC for ground water use from CGWA.</p> <p>Water from local municipality is not used. There is no disturbance to other water users.</p>	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
9	Siltation of existing water ponds due to spillage of Construction wastes	No disposal of construction wastes will be carried out into the existing small water ponds at site. These will be developed as water bodies during campus development. The waste materials will be transported to the pre-identified disposal site for safe disposal.	√			No disposal of construction waste is carried out into surface water bodies. The construction waste has been utilized in fill works at low lying area.	None
10	Water pollution from fuel and lubricants	<p>The contractor shall not store fuel and lubricants at site to avoid water pollution on account of spillage. These will be purchased on need basis.</p> <p>The maintenance of vehicle and equipment shall be avoided at site. It will be taken up at authorized workshops.</p> <p>The contractor shall ensure that all vehicle/machinery and equipment operation and refueling shall be carried out in such a manner that spillage of fuels and lubricants does not contaminate the ground.</p> <p>The monitoring of ground water quality will be taken up as per monitoring plan.</p>	<p>√</p> <p>√</p> <p>√</p> <p>√</p>			<p>Fuel and lubricants were not stored at site during the reporting period. These are purchased on need basis from market.</p> <p>Vehicles, machinery, and equipment maintenance is not taken up at site. The vehicle refueling is carried out through manual pump and mobile dispenser at site. Drip tray is provided as control measure to avoid water and land contamination.</p> <p>Monitoring of ground water quality has been taken up as per monitoring plan</p>	None
11	Soil pollution due to fuel and lubricants and construction wastes	<p>Fuel and lubricants storage at site will be avoided to avoid soil pollution on account of spillage. These will be purchased on need basis from market.</p> <p>Vehicle and equipment cleaning and washing shall be avoided at site.</p>	<p>√</p> <p>√</p>			<p>The vehicles and equipment maintenance are not carried out at site. The vehicle refueling is not taken up at site. No spillage of fuel was seen at site.</p> <p>The vehicle equipment cleaning and washing is not taken up at the site.</p> <p>The contractor ensures during the refueling of fuel and</p>	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
						lubricants do not contaminate the ground. Drip tray is provided as a control measure to avoid water and land contamination.	
12	Soil erosion	Temporary slope protection may be required during construction at the excavated areas. Adequate measures will be taken up so that there is no soil erosion causing risks in the vicinity. The construction site will be properly barricaded so that loose material and earth at site are not Eroded during intense rain and carried away with storm water.	√			Soil erosion and water ponding on account of excavations were not observed. Temporary excavations were not taken at site during the reporting period. The site is being barricaded as well as permanent boundary wall construction is also in progress. Loose materials are banded	None
13	Generation of dust	The contractor will take every precaution to reduce the levels of dust at construction site. The ASU campus site will be properly barricaded with adequate height prefabricated mild steel sheets from all sides to avoid air emissions and dust impacts in the surroundings of site. All filling works to be protected/covered in a manner to minimize dust generation.	√			In the reporting period contractor provided water tanker and miller for water sprinkling on the site and access road for dust suppression. The contractor has been instructed to sprinkle water regularly and maintain the water spray records Green nets provided in batching plant and all required construction areas.	None
14	Emission from construction vehicles, equipment and machinery	All vehicles, equipment and machinery used for construction shall conform to the relevant Bureau of India Standard (BIS) norms. The discharge standards promulgated under the Environment Protection Act, 1986 shall be strictly adhered to. The silent/quiet equipment available in the market shall be used in the construction.	√			The vehicle, equipment and machinery are complying with GOI emission norms. Reverse horns and blinkers are functional in the vehicles. The DG sets installed are of silent type. DG Stack height	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		The contractor shall maintain a record of Pollution under Control Certificates (PUCs) for all vehicles and machinery used during the contract period which shall be produced for verification whenever required.	√			was increased for the better dispersion of the air pollutants. The contractor is maintaining records of pollution under control certificates.	
15	Noise pollution	<p>The contractor shall confirm that all construction equipment used in construction shall strictly conform to the MoEFCC and CPCB noise standards and all vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction work such as operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 10.00 pm to 6.00 am.</p> <p>No construction activities will be taken up in night time (2200hours to 0600hours) to avoid noise impacts. Similar to construction activities, no construction vehicle movement will be allowed in the night hours.</p> <p>Noise monitoring will be taken up as per monitoring plan.</p> <p>Since liquefaction phenomenon has been identified at site foundations of suitable strength will be laid and for this suitable construction technology shall be adopted. Statement of method to minimize vibration will be followed to minimize vibrations during construction.</p>	√			<p>The equipment, vehicles, and machinery comply with noise standards.</p> <p>The vehicles and equipment in use have been fitted with Acoustic (exhaust & silencers).</p> <p>The construction works are taken up during daytime only</p> <p>The noise level monitoring in the reporting period has been carried out as per monitoring plan and the results were within the limits as notified by the MoEF&CC, Govt. of India vide, GSR7, dated Dec.22,1998. (As per specific conditions of CTE-ASU).</p> <p>Workers using ear plugs in works</p>	None
16	Impacts on flora and fauna	Minimize impacts on flora and fauna during construction phase by limiting site clearance bare minimum and limiting all types of pollution generation. The total area for landscaping to be	√			The environmental safeguard awareness / training program and Consultation were periodically conducted.	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		done will be 217830.74m ² and 3000 trees and shrubs will also be planted. The detailed landscaping and tree plantation plan will be prepared during project implementation. Broadly plantation will be taken up along boundary wall, side slopes of roads in campus.				(Annexure 1) The plantation and landscaping works will be taken up at the end of construction period.	
17	Material handling at construction site	Workers employed on mixing cement, lime mortars, concrete, etc. will be provided with protective footwear and protective goggles. Workers who are engaged in welding works will be provided with welder's protective eye shields. Workers engaged in stone breaking activities will be provided with protective goggles and clothing. The use of any toxic chemical (paints, thinners and anti- corrosive and anti-termite materials, etc.) will be strictly in accordance with the manufacturer's instructions.	√ √ √		√	Workers are provided with protective footwear and goggles Workers engaged in welding works are provided with welder's protective eye shields. There are no stone breaking activities at site. Hence this is not applicable. The toxic chemicals are handled and used as per the instructions written in materials safety data sheets.	None
18	Disposal of construction waste, and debris	The contractor shall confirm that safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed off around the ASU campus site.	√ √			The contractors with the assistance of PMU, PMC and local civic body have identified location (s) for the disposal (collection and segregation) of construction wastes. During the reporting period no waste disposed outside the premises. It has been stored within the site. During the construction phase, the civil work contractor reuse the waste concrete- cubes, steel bars and shuttering materials.	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
19	On site emergency plan for minor accidents and mishaps and disaster management plan for natural calamities	<p>The on-site emergency plan will be prepared by the contractor in consultation with CSQA firm, PMU and PMC.</p> <p>For natural calamities, disaster management plan prepared by the Darrang district administration under the provisions of Disaster Management Act 2005 will be followed.</p>	√			<p>The onsite emergency plan has been prepared by the contractor and it will be followed during mishaps.</p> <p>The contractor has been instructed to follow disaster management plan in the event of natural calamities</p> <p>For on-site emergency, mock drill was conducted by contractor on regular interval.</p>	None
20	Occupational Health and Safety and COVID-19 measures during construction	<p>Adequate safety measures for workers during handling of materials at the construction site will be taken up.</p> <p>First aid treatment will be made available for all injuries likely to be sustained during the course of work.</p> <p>The contractor will comply with all anti-malaria instructions given by the PMU, PMC, and CSQA firm</p> <p>Necessary COVID-19 protection measures will be taken up as per prescribed protocols of GoA and Gol guidelines.</p> <p>There will not be any use or handling of asbestos containing materials such as roofing sheet and plumbing pipes.</p>	√			<p>PPE Kits are being distributed to the workers. HSE manager ensures use of the kits by the workers, monitored timely by PMU</p> <p>The contractor has been instructed to comply with all regulations pertaining to safety. First Aid Boxes are available at site and are refilled for the consumed items and medicines. The contractor has tie-up with local hospital for serious injuries and illness. A 24hours ambulance is also available at site.</p> <p>The contractor has been instructed to follow anti-malaria instructions given by the PMU, PMC.</p> <p>COVID-19 protection measures will be followed as and when COVID-19 Protocol is in force.</p> <p>Use of asbestos products at site</p>	Health camp and awareness for HIV from external agency's

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
						is restricted. So far asbestos containing materials have not been used.	
21	Flooding and Water Logging and construction materials accidental flow with floodwaters	<p>The contractor will take all measures to barricade the site with MSsheet till permanent boundary wall is constructed.</p> <p>The contractor will maintain quick drainage of site to avoid any water logging and flow of loose construction material with rainwater</p> <p>The contractor will take all necessary mitigatory measures to ensure that mud and construction materials do not enter agriculture fields of houses from storm water of site.</p>	√			<p>The site has been barricaded wherever necessary.</p> <p>A mitigation plan for storm water drainage for the monsoon months has been submitted by the contractors and will be implemented during the monsoon season.</p> <p>Slopes of stored construction materials and earth has been bunded by sand filled bags to protect from, eroding and entering neighborhood areas.</p>	None
22	Clearing of construction of camp and restoration	<p>The contractor to prepare site restoration plan for approval by the PMU or its authorized agency (such as CSQA Firm). The plan is to be implemented by the contractor prior to demobilization.</p> <p>On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off, and the site left clean and tidy, at the contractor's expense, to the entire satisfaction of the ASU.</p>			<p>√</p> <p>√</p>	<p>The restoration works of construction camp and workers' camp will be cleared at the end. No action needed now. Hence this is not applicable for the reporting period.</p> <p>Temporary structures will be cleared at the end of construction phase. All rubbish, excreta, and other wastes will be disposed of at the end of construction phase. Hence, this is not applicable for reporting period.</p>	None

Table-9: Status of Compliance to EMP of Upgrading of ASU Interim Campus package(CW03):

Operation Phase Environmental Management Plan for ASU Interim Campus package

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
Operations Phase							
1	All regulatory permission for operation of ASU	All regulatory permission such as building occupancy certificate from civic authorities, NOC from fire department etc, will be obtained before start of ASU interim operations.	√			<p>The completion certificate has been issued by OSD, ASU, to the contractor after verification of all structural and other requirements. (Annexure 15)</p> <p>As per NBC of India 2016, for educational buildings less than 15 m in height there is no minimum requirements for firefighting installations. But both ABC and CO₂ fire extinguishers have been installed in the campus for fire safety.</p>	None
2	Environmental condition	Air, Water and noise quality will be monitored periodically as per environmental monitoring plan prepared. The boundary wall and plantation along the periphery will be maintained to avoid any impact from the ASU interim campus in the surrounding.	√			<p>Done</p> <p>The Q4 environmental monitoring was completed in December 2024 and all results are within the CPCB standards.(Annexure 5)</p>	None
3	Safety risks	1.Proper demarcation and flagging of the area requiring safety observation will be taken up after completion of construction works. 2. Necessary precaution measures to be observed by visitors will be printed on boards and will be prominently put inside the ASU interim campus. 3. The hazardous and toxic material at the laboratories and /or workshop will be handled , stored and disposed as per instruction provided in MSDS.	√			<p>The interim campus workshop and laboratories establishment is ongoing. The mandatory signage for the server room, computer room, workshop, library, etc., was provided. Emergency contact number placed at a prominent location. A fire mock drill was conducted for security and other administrative staff.</p> <p>During the stakeholder consultation, it was directed to every department of Interim campus to prepare individual department</p>	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
						SOPs for the laboratories. No equipment operational in the reporting period.	
4	Unhygienic conditions due to poor maintenance of sanitation facilities and irregular solid waste collection	<p>The ASU operations and management team will carry out maintenance of the toilet and carry out the regular waste collection and disposal of the waste to the local disposal site.</p> <p>Any hazardous waste generated waste will be handled as per the provision of 'Hazardous waste – Management Handling and Transboundary Movement Rule 2016 .</p> <p>Any biomedical waste generated at medical center will be handled,stored, transported and as per the provision of Bio Medical Waste Management Rules 2016.</p> <p>The E-waste generated will be handled and disposed of as per provision of E-waste management rule 2016.</p> <p>The used and discarded lead acid disposal as per Battery waste management rules 2020.</p>				<p>Two numbers of housekeeping staff have been engaged in purely temporary basis for day-to-day cleaning of the campus, office and toilet area for maintaining the campus hygienic.</p> <p>The identification of waste items and their disposal strategies is in process and will be finalised as per local civic bodies after reviewing the SOP prepared by each department of Interim Campus.</p>	Waste management plan finalization and Municipal Corporation tie up
5	Natural disasters	Necessary procedures to be followed by the visitors, students, ASU Staff during natural disasters shall be written at prominent locations.	√			A Disaster Management Committee for ASU has been formed and notified. A Disaster management and Emergency response plan for ASU has been prepared to be followed in case of any disaster. A safe assembly area has been marked for the campus.	None
6	Onsite emergency plan for minor accidents and mishaps and	The operations and management team of ASU will prepare an onsite emergency plan for possible minor accidents and mishaps (due to fire, handling and storage of hazardous and toxic chemicals at laboratories workshop etc) during operation phase.	√			An onsite emergency plan for possible minor accidents and mishaps has been prepared for ASU. Will be further updated after setting up of the laboratories and workshop as per requirement.	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
7	Disposal of waste from ASU Interim campus	The ASU operations and management team will prepare waste disposal plan for municipal waste , bio medical waste and hazardous waste in consultation with civic authorities	√			The identification of waste items and their disposal strategies is in process. The draft plan will be finalised as per local civic bodies after reviewing the SOP prepared by each department of Interim Campus for the workshop and laboratories.	None
8	Maintenance of drainage system of ASU campus	The ASU management team will maintain drainage system constructed properly to avoid flooding of campus.				ASU interim campus has a fully functional drainage system. ASU has house keeping staff to clean the drains to avoid blockages due to leaves.	None

Table-10:Status of Compliance to EMP of Remaining Boundary wall Contract- CW04

Construction Phase Environmental Management Plan for ASU Remaining Boundary wall Contract

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
Construction Phase							
1	Sanitation and drinking water facilities at construction camp	The contractor shall provide adequate sanitation facilities at the camp site. These facilities will include dust bins in adequate numbers for solid waste collection, drinking water facilities, and separate toilets for male and females. These toilets facilities shall be well maintained, and septic tanks/soak pits shall be provided at the toilets. The dust bins shall be regularly emptied and waste from camp site shall be disposed off at designated locations.	√			The contractor has provided sanitation facilities/basic welfare facilities like dustbin for solid waste collection, drinking water facilities, and toilets with septic tanks.	None
2	Traffic circulation plan during construction phase	Prior to commencement of site activities and mobilization on ground, the contractor will prepare and get approved (from the PMU site team and local traffic police) traffic circulation plan during construction for safe passage of public vehicles so that locals are not at inconvenience. The contractor	√			One traffic circulation plan prepared for the entire project. This traffic circulation plan is being implemented at site.	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		with support of the PMU site team will carry out dissemination of these information and circulation plan at boundary wall construction site					
3	Clearance activities, including delineation of construction area	Only ground cover shrubs, if any, that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the Environmental Experts of PMU. All areas used for temporary construction operations will be subjected to complete restoration to their former conditions with appropriate rehabilitation procedures. The photographic records shall be maintained for the temporary sites used for construction. These will help in proper restoration.	√		√	The presence of shrubs along the boundary wall alignment was minimal at site. These have been removed carefully. The areas used for the temporary construction will be restored to the original conditions at the end of the constructions. Hence, this is not applicable.	
4	Drinking water availability at Construction camp and construction site	Sufficient supply of potable water to be provided and maintained. If the drinking water is obtained from an intermittent public water supply, then storage tanks will be provided. For this, contractor will submit plans which detail how availability of drinking water shall be assured. In case it is obtained from the natural spring then permission from local authorities shall be obtained	√			Sufficient supply of potable water is ensured at site and workers' camp. The water supply to site for drinking is not from any natural spring.	None
5	Waste disposal (construction wastes including muck and bentonite slurry during doing piling)	The pre-identified disposal location shall be part of comprehensive waste disposal plan. Solid waste management plan to be prepared by the contractor in consultation with local civic authorities. The environmental specialist of PMU shall approve these disposal sites after conducting a joint inspection on the site with the contractor. Contractor should ensure that waste shall not be disposed off near water stream in the surroundings of site and along the access path.	√			The construction muck and pile muck reuse for filling internal roads/holes maintained as per site conditions and requirements. During site visits, the regular consultations are organized for safeguard compliances.	None
6	Stockpiling of construction materials	Stockpiling of construction materials will be done in such a way that it does not impact and obstructs the drainage and movements of locals for accessing their agriculture fields. The stockpiles will	√			Stockpiles covered by tarpaulin sheets to avoid dust and erosion and banded also so that these are not washed away during intense rainfall. Construction materials	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		be covered to protect from dust and erosion. The stockpiles of loose construction materials and excavated earth shall be bunded so that these are not washed away during intense rainfall				stored at barricaded storage areas.	
7	Arrangement for construction water	(i) The Contractor shall provide a list of locations and type of sources from where water for construction shall be acquired. (iii) To avoid disruption/ disturbance to other water users, the contractor shall arrange water from market or from local municipality and consult PMU before finalizing the source.	√			The contractor has issued the exemption letter for ground water abstraction from CGWA. (Annexure 14). The water from municipal sources and /or market is not obtained.	None
8	Water pollution from construction wastes	The contractor shall take all precautionary measures to prevent entering of wastewater and construction waste into local stream during construction.	√			Construction wastewater is being used for dust suppression. No wastewater allowed to go outside the construction site.	None
9	Water pollution from fuel and lubricants	The contractor shall not store fuel and lubricants at site to avoid water pollution on account of spillage. These will be purchased on need basis. The maintenance of vehicle and equipment shall be avoided at site. The contractor shall ensure that all vehicle/machinery and equipment operation and refueling shall be carried out in such a manner that spillage of fuels and lubricants does not contaminate the ground. The monitoring of ground water quality will be taken up as per monitoring plan.	√			The contractor purchases fuel for the site's machinery, generator and construction vehicle at regular intervals from the market. The storage of fuel done in closed containers. The contractor ensures during the refueling does not to contaminate the ground. Drip tray is provided as control measure to avoid water and land contamination. Monitoring of ground water quality will be taken up as per monitoring plan.	None
10	Soil pollution due to fuel and lubricants, construction wastes	Fuel and lubricants storage at site will be avoided to avoid soil pollution on account of spillage. These will be purchased on need basis from market. Vehicle and equipment cleaning and washing shall be avoided at site. Bentonite pit is to be made at a safe distance away from the bore and properly connected to the bore	√			The contractor ensures during the refueling of fuel and lubricants do not contaminate the ground. Drip tray is provided as control measure to avoid land contamination. The vehicles and equipment cleaning and washing is not taken up at the site.	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		by a channel. The contractor shall submit necessary details for this for the approval of PMU.					
11	Generation of dust	The contractor will take every precaution to reduce the levels of dust at construction site. All filling works to be protected/covered in a manner to minimize dust generation. Dust suppression will be carried out during piling works and construction material handling	√			In the reporting period contractor provided water tanker and manual provision for water sprinkling on the site and access road for dust suppression. The contractor has been instructed to sprinkle water regularly.	None
12	Emission from construction vehicles, equipment and machinery	All vehicles, equipment and machinery used for construction shall conform to the relevant Bureau of India Standard (BIS) norms. The discharge standards promulgated under the Environment Protection Act, 1986 shall be strictly adhered to. The silent/quiet equipment available in the market shall be used in the boundary wall construction. The contractor shall maintain a record of PUC for all vehicles and machinery used during the contract period which shall be produced for verification whenever required.	√			The vehicle, equipment and machinery are complying with GOI emission norms. Reverse horns and blinkers are functional in the vehicles. The contractor maintains record of PUC for all vehicles and machinery used and is also verified by PMU.	None
13	Noise and Vibration levels	The contractor shall confirm that all construction equipment used in construction shall strictly conform to the MoEFCC and CPCB noise standards and all vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction work such as operation of DG sets, use of high noise generation equipment shall be stopped during the nighttime between 10.00 pm to 6.00 am. All workers to use ear plugs during piling work. Noise limits for construction equipment used in this project will follow IFS's EHS standards.	√			The equipment, vehicles, and machinery comply with noise standards. The vehicles and equipment in use have been fitted with Acoustic (exhaust & silencers). The construction works are taken up during daytime only. The construction equipment noise limits are as per IFS EHS standards.	None
14	Impacts on flora and fauna	Minimize impacts on flora and fauna during construction phase by limiting site clearance bare minimum and limiting all types of pollution generation.	√			No trees have been cut and bare minimum shrubs were removed. The compensatory plantation and landscaping will be done as per the	None

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
						Landscaping Plan at the end of construction phase.	
15	Material Handling at construction site	Workers employed on mixing cement, lime mortars, concrete, etc., will be provided with protective footwear and protective goggles. Workers, who are engaged in welding works, will be provided with welder's protective eye-shields.	√			Workers provided with protective footwear and goggles each day before start of construction works. The workers engaged in welding works are provided with welder's protective eye shields.	None
16	Disposal of construction waste, and debris	The contractor shall confirm that safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed off around the project site.	√			During the construction phase, the civil work contractor reuse the waste concrete- cubes, steel bars and shuttering material as innovative manners. Waste materials are segregated and sent to vendors for recycling.	None
17	Onsite emergency plan for minor accidents and mishaps and Disaster Management Plan for Natural Calamities	The onsite emergency plan will be prepared by the contractor in consultation with PMU site team. For natural calamities, disaster management plan prepared by the Darrang district administration under the provisions of Disaster Management Act 2005 will be followed.	√			The contractor has been instructed to follow the disaster management plan in the event of natural calamities and regular conducting site mock drill. The contractor needs to prepare on-site emergency plan.	Mock drill frequency increase and preparation of onsite emergency plan for CW-04.
18	Safety measures during construction	Adequate safety measures for workers during handling of materials at the boundary wall construction site will be taken up. The contractor has to comply with all regulations for the safety of workers. Precaution will be taken to prevent danger of the workers from accidental injuries, fire, etc. First aid treatment will be made available for all injuries likely to be sustained during the course of work. The contractor will comply with all anti-malaria instructions given by the PMU site team.	√			PPE Kits are being distributed to the workers. HSE manager ensures use of the kits by the workers, monitored timely by PMU, PMC & CSQA The contractor has been instructed to comply with all regulations pertaining to safety. First Aid Boxes are available at site Necessary COVID-19 protection measures will be taken up as per	Done

Sl. No.	Environmental Issues	Mitigation Measures	Status of Compliance			Remarks/Action taken	Follow up actions
			Yes	No	NA		
		Necessary COVID-19 protection measures will be taken up as per requirements of GoA and Gol guidelines. No use of asbestos containing materials such as roofing sheets and pipes will be ensured during construction phase. Till the end of reporting period, no asbestos containing materials have been encountered.	√			requirements of GoA and Gol guidelines. At present there is no protocol in force. Use of asbestos products at site is restricted. So far asbestos containing materials have not been handled	
19	Flooding and Water Logging and construction materials accidental flow with food waters	The construction materials and loose excavated earth will be stored in a permeable enclosure if works are continued in monsoon. The drainage systems prepared by the contractor of ASU campus construction package for the site will not be obstructed by the construction works of boundary wall.	√			No construction materials and loose excavated earth are stored at the site. The construction works of the boundary wall ensure that the drainage systems prepared by the contractor of the ASU campus construction package for the site will not be obstructed.	None
20	Clearing of construction of camp and restoration	The contractor to prepare site restoration plan for approval by the PMU site team. The plan is to be implemented by the contractor prior to demobilization. On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the contractor's expense, to the entire satisfaction of the ASDM.			√ √	The clearing of construction camp and restoration will be carried out at the end of the construction phase. No action needed now. Hence, this is not applicable for the reporting period. Temporary structures will be cleared at the end of the construction phase. All rubbish, excreta, and other wastes will be disposed of at the end of the construction phase. Hence this is not applicable for the reporting period. The approach road to the site will be restored upon completion of the works. .	None

IV. APPROACH & METHODOLOGY ENGAGED FOR ENVIRONMENTAL MONITORING OF THE PROJECT

19. Continuous monitoring of EMP implementation is being carried out by PMU, PMC, Quality Assurance (QA) Firm, and designated environmental, health and safety officers of the contractors.

20. The Environmental Specialist of PMC and other experts of quality assurance firm along with PMU officials regularly visit the construction site. Necessary directions, in case of non-compliance are being issued to both the contractors at the ASU site and through letters about the procedures to resolve the problems/issues or requirements. The environmental specialists of PMU and PMC regularly carry out training programs on environmental and safety issues to sensitize contractor construction crew at the ASU construction site.

21. Environmental monitoring during construction phase is being taken up as per monitoring program prepared in EMP. This monitoring is to check efficacy of mitigation measures being taken up at sites.

V. STATUS OF INSTITUTIONAL SET-UP UNDER THE PROJECT

a. Institutional Set-up for the Project Implementation

22. The main agencies involved in managing and implementing the Assam Skill University project are EA and IA.

23. The Skill, Employment and Entrepreneurship Department (SEED) of GoA is the EA. The Assam Skill Development Mission (ASDM) was the IA, which has been transitioned to Assam Skill University in the reporting period. The ASDM had established a project management unit (PMU) for the overall project implementation. For the ASU Project components implementation, the PMU is being supported by the PMC team. PMU has environment and social safeguards specialists. The PMC team is a multi-disciplinary team including intermittent environmental specialist having thorough knowledge of environmental rules and regulations of the State and GoI and other environmental management aspects. The CSQA firm for construction supervision and quality assurance also reviews the environment health and safety issues at site. The contractors have designated one environment, health, and social safeguard officer in their teams. The PMU is responsible for overall planning and implementation of the civil works with the assistance of PMC and CSQA firm. PMU ensures that the ASU and all activities financed under the ADB comply with environmental rules and regulations of GoI and GoA and ADB SPS 2009. The organization chart showing EMP implementation in the ASU project is shown below in **Figure-3**.

Figure-3: Organization chart for Environment Management in ASU

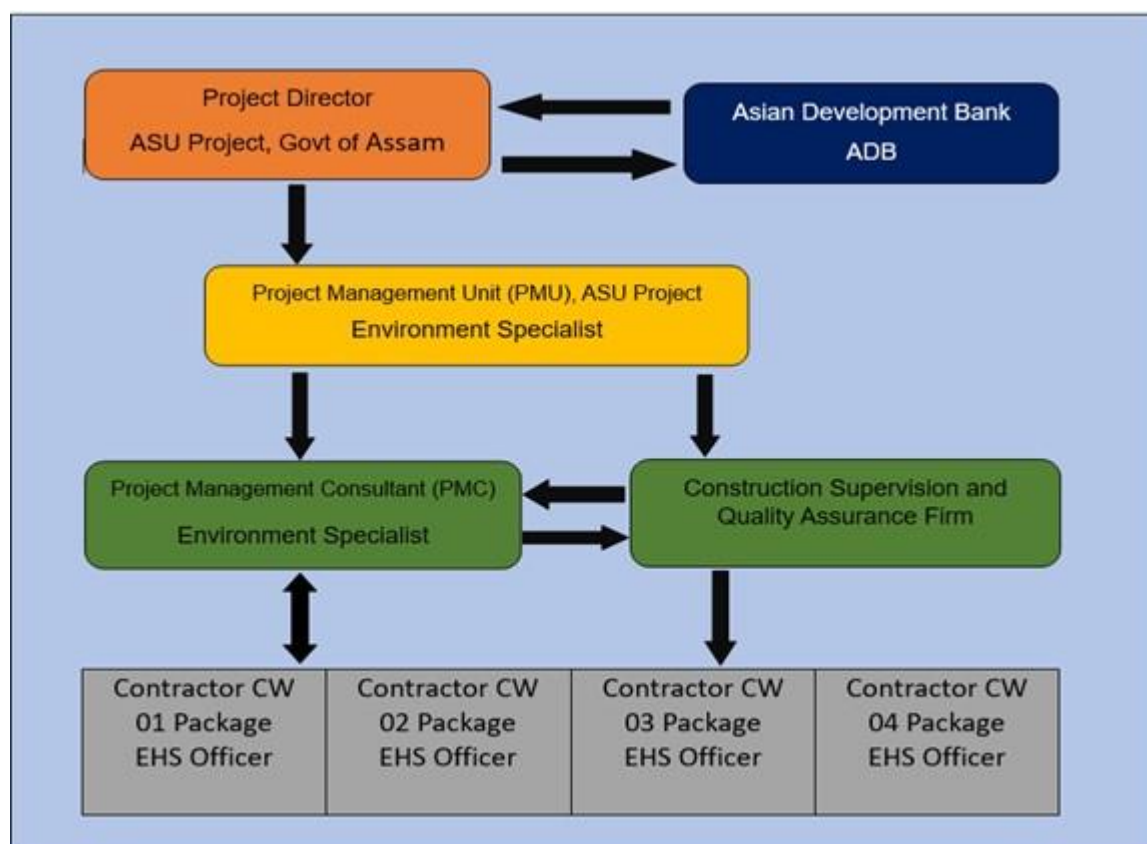


Table 11.a: Institutional set up details for safeguards- Civil work contracts, PMU, PMC

EHS Officer	Name	Email	Available since	Fulltime/Intermittent basis
CW01	Dipankar Barman	dipankarb081@gmail.com	14.10.2022 to 31.12.2023	Intermittent
	Rashidul Haque	asenterprise473@gmail.com	14.06.2023 to 10.10.23	Full time
	Mahidul Islam	mahidulislam3729@gmail.com	15.10.2023 to 14.04.2024	Full time
CW02	Mr. Kaustuv Kakoty	kaustav90@gmail.com	10.10.2022 to 15.01.2024	Full time
	Mr. Asif Jaddary	ashifjaddary1999@gmail.com	20.03.2023 to 30-11-2024	Full time
	Mr. Nisanth Rao	nisanth811994@gmail.com	18.01.2024 to date	Full time
	Mr. Jayanta Buragohain	joyantaburagohain123@gmail.com	04.07.2024 to date	Full time
CW03	Raj Ali	riyan.raj786@gmail.com	31.12.2023 to 30.06.2024	Full time
CW04	Mr. Rishikesh Sarma	bhaskarbaruah666@gmail.com	01.10.2024 to 30.11.2024	Full time
	Mr. Kaustuv Kakoty	kaustav90@gmail.com	1.12.2024 to date	Full time
PMC (Environment Specialist)	Mr. Shashi Bhushan	shashibhushan2007@gmail.com	20.02.2022 to 30.09.2024	Intermittent
	Mr. Vineet Gupta	cs01asu.env@gmail.com	06.11.2024 to date	Intermittent
PMU (Environment Specialist)	Dr. Sanghita Dutta	env.sp.asup@asu.ac.in	01.09.2021 to date	Full time
CSQA Team leader	Mr. Jayanta Chakravorty	tl.cs02@stc.co.in	12.06.2023 to date	Full time

B. Roles and Responsibilities of Various Agencies

24. The roles and responsibilities of various agencies with a focus on EMP implementation are described below in **Table-11**.

Table-11.b: Roles and Responsibilities of Various Agencies /Organizations in Project Implementation

Sl. No.	Organization/Agency	Roles and Responsibilities
1	Skill, Employment and Entrepreneurship Department (SEED)- Executive Agency	<ul style="list-style-type: none"> To monitor overall progress of the project and to provide approvals for the project

Sl. No.	Organization/Agency	Roles and Responsibilities
		<p>progress on behalf of GoA</p> <ul style="list-style-type: none"> To coordinate with the ADB and Gol for the project related matters.
2	Assam Skill University (ASU)- Implementing Agency	<ul style="list-style-type: none"> To oversee the project implementation progress on day-to-day basis To coordinate with the Executive Agency (SEED) for project related financial and other approvals To coordinate with the other agencies (through PMU) such as PMC, CSQA, design vetting agency (IIT), contractor(s), and regulatory agencies To keep updated clearances, licenses permissions and No Objection Certificates (NOCs) pertaining to environmental safeguards as well as for the overall project To submit necessary progress reports, and semi-annual environmental monitoring reports and social safeguards monitoring reports to ADB with the assistance of PMC and CSQA Team To guide PMU for the smooth progress of the project
3	Project Management Unit (PMU) at ASU	<ul style="list-style-type: none"> To coordinate with PMC, contractors, GoA and CSQA firm to ensure up to date permissions, NOCs, and clearances pertaining to the environment. To coordinate with PMC and contractors to submit on time submission of semi-annual environmental monitoring reports to ADB. To address comments of ADB environmental safeguards team in environmental safeguards documents (Updated /Addendum IEE reports) with the assistance of PMC and contractors To facilitate participation of contractors and PMC team in capacity building training programs on environmental safeguards organized by the ADB, and PMU.
4	Project Management Consultant (PMC)	<ul style="list-style-type: none"> To support PMU in EMP implementation and safeguards related compliances during the project implementation. To guide the contractors' HSE officer in EMP implementation To follow up with the contractors for timely renewal and update of permissions, licenses, consents, insurance, etc. and keep these valid and up to date during implementation. To support PMU for the preparation of semi-annual environmental monitoring report to ADB.
5	CSQA Firm	<ul style="list-style-type: none"> To support PMU in quality construction through design review and site supervision To HSE officials of contractor on HSE aspects during the construction works To support PMU/PMC environmental

Sl. No.	Organization/Agency	Roles and Responsibilities
		specialist for incorporation of environmental mitigation/EMP in design and contract documents.
6	Contractors	<ul style="list-style-type: none"> • To implement the EMP as approved by the IA and ADB. • To carry out environmental monitoring as per the approved monitoring plan. • To keep all permissions, NOCs, clearances and licenses up to date. • To submit regularly monthly and quarterly progress /monitoring report to PMU. • To submit monthly progress reports to PMU for semi-annual environmental monitoring report preparation. • To deploy HSE officer on full time basis at site.

VI. MONITORING OF ENVIRONMENTAL RECEPTORS/ ATTRIBUTES

a. Monitoring Basis

25. The implementation of Environmental Monitoring Plan is required to check if any adverse impact is being caused by the construction activities. The monitoring of the indicated parameters (environmental attributes pertaining to air quality, water quality, and noise levels) in the monitoring plan is being carried out at Assam Skill University construction sites and surroundings.

26. The monitoring of environmental parameters is being carried out as per the agreed Environmental Monitoring Plan in the EMP document.

B. Type of environmental receptor/ attribute to be monitored

27. The environmental attributes being monitored in the project include the air, noise and water quality parameters at the sub-project construction sites. The important air quality parameters monitored include PM10, PM2.5, SO2, NOx and CO. The water quality parameters include pH, TDS, TSS, hardness, Biological Oxygen Demand (BOD at 27° C) and Fecal Coliform. In case of noise, 'Day' time and 'Night' time Leq values are monitored. Monitoring is to be done quarterly except in monsoon.

VII. IMPLEMENTATION OF ENVIRONMENTAL MONITORING PLAN AND MONITORING RESULT

28. The implementation of environmental monitoring plan during reporting period carried out as per EMP. The quarterly environmental monitoring reports have been provided in Annexure-4 for the main campus and Annexure-5 for the Interim campus. **Tables 12 & 13** provide an assessment on the test results of parameters monitored with the baseline values measured during the commencement of works.

Table-12: Quarterly Monitoring results for ASU Campus under construction

Component	Parameters /Pollutants	CPCB Standard	Baseline status	Monitoring result during reporting period Q2 (April – June 2024)	Monitoring result during reporting period Q4 (Oct - Dec 2024)	Remarks
Noise	Sound Level 1-Leq.(Day)in dB(A) 2- Leq(Night)in dB(A) Sound Level	Noise Standards - 65 dB(A) for Day time 55dB(A)for Night time <i>Area code [B] commercial area</i>	db(A)Leq=52.46 for day time db(A)Leq= 43.57dB(A)for night Time	db(A)Leq= 60.6 for day time db(A)Leq= 46.2 for night time	db(A)Leq= 58.1 for day time db(A)Leq= 44.2 for night time	All monitored values within the standard limit.
Air Quality	PM10PM2.5SO2 NOxCO	PM10=100 µg/m ³ PM2.5=60 µg/m ³ SO2=80 µg/m ³ NOx=80 µg/m ³ CO=2 mg/m ³	PM10=50µg/m ³ PM2.5=20µg/m ³ SO2= 6 µg/m ³ NOx=15µg/m ³ CO= 2 mg/m ³	PM10=42µg/m ³ PM2.5=19µg/m ³ SO2= <5 µg/m ³ NOx=11µg/m ³ CO= less than 1.15mg/m ³	PM10=74µg/3 PM2.5=38µg/m ³ SO2= <25 µg/m ³ NOx=12µg/m ³ CO= less than 1.15mg/m ³	All monitored values within the standard limit.
Water Quality (Ground water)	Following parameters are specified in the monitoring plan: pH TDS TSS Hardness BOD Faecal Coliform (applicable standards– national- Drinking Water Quality Standards	Norms as per IS 10500,2012 [2nd Rev]	pH=6.9 TDS=78mg/l TSS=<1.0 mg/l Hardness =24 mg/l BOD= nil Turbidity=54NTU Ca=18mg/l Mg=6mg/l TA=42mg/l Cl ⁻ =10.0 F ⁻ =0.248mg/l SO4 ²⁻ =4.2mg/l	pH=6.56 TDS=125mg/l Turbidity=<1NTU DO=3.8 mg/l Hardness=16mg/l BOD=<2 Ca=32mg/l Mg=4mg/l TA=120mg/l Cl ⁻ =<1 mg/l F ⁻ =<0.005mg/l SO4 ²⁻ =1.1mg/l	pH=6.50 TDS=184mg/l Turbidity=<1NTU DO=3.2 mg/l Hardness=134mg/l BOD=<2 mg/l Ca=31.2mg/l Mg=13.6mg/l TA=120mg/l Cl ⁻ =12.9 mg/l F ⁻ =<0.5mg/l SO4 ²⁻ =4mg/l	All parameters of water quality were found within permissible levels.

Component	Parameters /Pollutants	CPCB Standard	Baseline status	Monitoring result during reporting period Q2 (April – June 2024)	Monitoring result during reporting period Q4 (Oct - Dec 2024)	Remarks
	specified in IS:10500)		NO ₃ ⁻ =2.4mg/l RCI2=nill COD=nill P=nill Fe=2.4mg/l Pb=0.05mg/l Zn=0.06mg/l Cu=0.03mg/l Cr=0.06mg/l Ni=0.10mg/l Cd=0.02mg/l Hg=0.001mg/l As=0.01mg/l Total coliform=nill Faecal coliform=nill	NO ₃ ⁻ =<5mg/l RCI2=bdl Total F ⁻ =<0.5mg/l Cu<0.05 Fe=0.25mg/l Cd<0.003 Pb<0.01 Zn<0.1mg/l Cr<0.05mg/l Hg<0.001 Ni=bdl As=0.01 Total coliform=nill Faecal coliform=nill	NO ₃ ⁻ =<5mg/l RCI2=bdl Total F ⁻ =<0.5mg/l Cu<0.05mg/l Fe=0.28mg/l Cd<0.003 mg/l Pb<0.01 mg/l Zn<0.5mg/l Cr<0.05mg/l Hg<0.001 mg/l Ni=bdl As<0.01 mg/l Total coliform=nill Faecal coliform=nill	
Water quality (Surface water)	Following parameters are specified in the monitoring plan: pH TDS TSS Hardness BOD Faecal Coliform (applicable standards–national- Drinking Water Quality Standards specified in IS:10500)	Norms as per IS 10500,2012 [2nd Rev]	pH=6.3 TDS=nill TSS=26mg/l Hardness (as (CaCO ₃) =102mg/l EC=416µS/cm Turbidity=20NTU Total alkalinity as CaCO ₃ =196mg/l Ca=62mg/l Mg=40mg/l Cl ⁻ =90mg/l F ⁻ =0.223mg/l SO ₄ ²⁻ =30.2mg/l NO ₃ ⁻ =1.2mg/l PO ₄ =0.68mg/l COD=12.4mg/l	pH=6.75 TDS=75mg/l TSS=<10mg/l Hardnessas(CaCO ₃) =38mg/l EC=0.24µS/cm Turbidity=13NTU Total alkalinity as CaCO ₃ =70 mg/l Ca=24mg/l Mg=4g/l Cl ⁻ =6.9 mg/l F ⁻ =<0.05mg/l SO ₄ ²⁻ =<1mg/l NO ₃ =<5mg/l PO ₄ = 0.12mg/l COD=7mg/l	pH=6.52 TDS=51.0 mg/l TSS=<10mg/l Hardness as(CaCO ₃) =27mg/l EC=0.24µS/cm Turbidity=4.5NTU Total alkalinity as CaCO ₃ = 25 mg/l Ca=13.6mg/l Mg=< 2g/l Cl ⁻ =<1.0mg/l F ⁻ =<0.5mg/l SO ₄ ²⁻ =<2mg/l NO ₃ =<5mg/l PO ₄ = 0.12mg/l COD <5mg/l	All parameters of water quality were found with in permissible levels

Component	Parameters /Pollutants	CPCB Standard	Baseline status	Monitoring result during reporting period Q2 (April – June 2024)	Monitoring result during reporting period Q4 (Oct - Dec 2024)	Remarks
			BOD=3.4mg/l DO=7.4mg/l Fe=1.6mg/l Pb=0.11mg/l Zn=0.13mg/l Cu=0.03mg/l Cr=0.06mg/l Cd=0.02mg/l Hg=0.001mg/l As=0.01mg/l Totalcoliform=1500 MPN/100ml Faecalcoliform=73 0MPN/100ml	BOD=3mg/l DO= 4.5mg/l Fe=0.24mg/l Pb=<0.01mg/l Zn=<0.1mg/l Cu=<0.05 Cr=<0.05 Cd=<0.003 Hg=<0.001mg/l As=<0.001mg/l Total coliform=Nil Faecal coliform=Nil	BOD=2.8mg/l DO= 4. mg/l Fe=0.18mg/l Pb=<0.01mg/l Zn<0.5mg/l Cu=<0.05 Cr<0.05 mg/l Cd=<0.003 Hg=<0.001mg/l As<0.01mg/l Total coliform=present Faecal coliform=present	

Table-13: Environmental Monitoring results - (Operation phase of Interim Campus at ITI Guwahati)

Component	Parameters/Pollutants	CPCB Standard	Base line status	Monitoring result during operational phase [Q4 2024]	Remarks
Ambient Noise	Leq(Day) in dB(A) Leq(Night)in dB(A)	Noise Standards - 65 dB(A) for Day time Time 55dB(A)for Night time <i>Area code [B] commercial area</i>	Leq (day)= 61.50 dB(A) Leq(Night)=53.90 dB(A)	Leq (day)= 62.4 dB(A) Leq(Night)=51.0 dB(A)	The monitoring value of Day time slightly deviates from baseline data but below than the <i>Area code [B] commercial area defined by CPCB</i> . The campus is situated near the state highway and starting point of flyover and vehicular movements has prominent impact on ambient noise.
Ambient Air Quality	PM ₁₀ , PM _{2.5} , SO ₂ NO _x	<ul style="list-style-type: none"> PM₁₀=100µg/m³ PM_{2.5}=60µg/m³ SO₂=80 µg/m³ NO_x=80µg/m³ 	<ul style="list-style-type: none"> PM₁₀=93µg/m³ PM_{2.5}=52µg/m³ SO₂= 7.12 µg/m³ NO_x=25.86µg/m³ 	<ul style="list-style-type: none"> PM₁₀=92 µg/m³ PM_{2.5}=53 µg/m³ SO₂= 11.4 µg/m³ NO_x=28.6 µg/m³ 	All parameters of ambient air quality are well within the stipulated limits of CPCB

Water Quality	<p>Following parameters are specified in the monitoring plan: pH TDS TSS Hardness BOD Faecal Coliform (applicable standards—national-</p> <p>Drinking Water Quality Standards specified in IS:10500)</p>	<p>Norms as per IS 10500,2012 [2nd Rev]</p>	<p>pH=7.31 TDS=146mg/l Turbidity=3.29NTU Total Hardness as CaCo3 =162.34mg/l Ca=54.62mg/l Mg=23.10mg/l TA=154.22mg/l Cl=8.19mg/l F=1.08mg/l SO₄²⁻=44.25mg/l NO₃⁻=3.16mg/l Cu<0.05 Fe=0.34mg/l Pb<0.01 Zn<0.05mg/l As=0.002 FaecalColiform=nill</p>	<p>pH= 5.0 TDS= 261 mg/l Turbidity= 0.40 NTU Total Hardness as CaCo3 =102 mg/l Ca= 46.56 mg/l Mg= 09.42 mg/l TA=134mg/l Cl= 42.0 mg/l F=0.38 mg/l SO₄²⁻= 68.5 mg/l NO₃⁻=6.40 mg/l Cu = BDL Fe=0.32mg/l Pb = BDL Zn = 0.94 mg/l As=BDL Faecal Coliform=nill</p>	<p>All parameters of water quality are well within the stipulated limit of drinking water specified in IS:10500 (2012)</p>
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VIII. ANY OTHER ENVIRONMENTAL ASPECTS, IMPACTS OBSERVED DURING IMPLEMENTATION WHICH WERE NOT COVERED EARLIER

29. No unforeseen or abnormal adverse environmental impact observed during the reporting period. During the site visit to various construction sites, the environmental specialist of PMU and PMC conducted safeguard training programs for construction crew and contractors HSE officials deployed at site during current reporting period. Training programs were on Health, Safety and Environmental Management Plan/Environmental Monitoring / Environmental safeguard requirements etc. The photographs of capacity buildings are given in **Annexure-1**.

IX. DETAILS OF COMPLAINTS RECEIVED FROM PUBLIC AND ACTION TAKEN THERE OF TO RESOLVE

30. During this reporting period, a verbal grievance was lodged by a local woman for dust issue due to movement of heavy vehicles on 11.09.2024 during site visit of PMU. The grievance was registered by the PMU Environment specialist in the grievance register. A meeting was held with the site project technical manager (GRO Level 1) to close the issue. The issue was immediately addressed through contractor and closed on 18.09.2024. Frequency of water sprinkling was increased and vehicle speed was also controlled. Repeated consultation was done again on 24.09.2024 for any further issue. Contractors have been briefed on the GRM and instructed to ensure the speedy resolution of any grievance.

31. The Project Information Board contain details of Grievance Redressal Officer (GRO). A Complaint Box and complaint register exist at the ASU site and office. The GRC Committee has been modified due to change in GRC members and notified. (Annexure 3)

32. **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 at 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/ASU and at the construction site so that public can register their complaint through telephone and mobile phone to the ASU site office and PMU office.
- **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>

X. FOLLOW UP ACTIONS AND CONCLUSIONS

33. Site supervision will be regularly carried out to ensure that environmental impacts are being adequately mitigated and to ensure continuation of compliance with statutory regulations as required by laws and agreed upon in EMP. The contractors are being regularly guided and instructed to pay attention to environmental safeguard issues and adhere to the provisions of EMP. The PMU/PMC environmental specialist conducted consultation and informal onsite orientation for the contractor's supervisory staff and site engineers for EMP implementation. The environmental monitoring of ambient air, ambient noise and water sample results within the CPCB standard at ASU campus Mangaldai and Interim Campus Guwahati

34. The stakeholder consultations have been taken up by PMU with institutional stakeholders and their suggestions are being incorporated in project implementation. In the current reporting period informal discussion/consultations were taken up at local level by the environmental specialist of PMU and relevant suggestions were considered in construction. The details on awareness program/ consultation have been covered in **Section-XII** of this report. In future consultations will also be continued.

35. The summary of actions points reported in the previous SEMR (February- July 2024) & compliance status in current reporting period has been given in **Table 14**. The action points based on environmental performance review of the reporting period (February 24 – July 24) for follow up in the next reporting period (February- July 2025) are given in **Table 15**.

Table-14: Actions points reported in the previous SEMR (February- July 2024) & Status of Compliance in current reporting period (August 2024- January 2025)

Action Point	Status of Compliance
Obtaining Consent to Operate (CTO) for the 2 nd Batching Plant of CW02	Done. Batching plant capacity 208m ³ /day and 2 DG capacity with 125KVA and 62.5 KVA CTO no WB/TEZ/T-2219/22-23/23 dated 18.09.2024. Valid till 31.03.2025 (Annexure 13)
Quarterly Environmental Monitoring by the contractors	Done (Annexure 4&5)
Obtaining Borewell permission from the CGWA by CW04	Done Exemption under Para 1.0 (v) of guidelines CGWA - 21-4/3615/AS/INF/2024 (Annexure 14)
Mobilization of environment officer, and health & safety officer as per contractual provision for CW-04	HSE manager mobilized under CW04
Stakeholder consultations to be conducted at site regularly	Done (Annexure 16)
Closure of camps by CW01 in environmentally responsible manner under the Project	Done (Annexure 11)

Table-15: Action points based on environmental performance review of the reporting period (August 2024 – January 2025 Period) to be followed in the Next Reporting Period (February 2025 to July 2025 Period)

Action points	Remarks
Interim campus waste management plan as per SOP provided by academic departments and other administrative team	In process, will be finalized in the next reporting period
Quarterly Environmental monitoring	All the contractors will be followed up for timely environmental monitoring.
Mock drill at interim campus and ASU campus for onsite emergency response	Will be followed up with contractors
Awareness for HIV and health checkup camps to be organized	Will be followed up with contractors
Renewal of CTO – Batching plant on or before 31.03.2025	Contractor is instructed for renewal of the license before expiry
Stakeholder consultations	PMU and PMC safeguard specialists will ensure regular consultations at site

XI. SITE SAFETY AND HOUSEKEEPING

At the site necessary measures for safety and housekeeping are adopted by the contractors. These measures include proper PPE usage by the workers and technical staff, proper barricading of site portions having injury prone materials such as steel rods, temporary barricading at stairs in the buildings under construction, and proper upkeep of site by segregating construction waste, domestic waste, and discarded construction materials. The high-risk activities, i.e., height work, are going on at the site, but due to the lack of provision of a full-time competent safety officer with construction safety experience in the supervisor team/consultant/PMU, ongoing high-risk activities at the site area.

XII. STAKEHOLDER CONSULTATIONS AND DISCLOSURE

a. Process For Consultations Followed

36. 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, this ASU project can be characterized as having no significant adverse impacts.

37. In view of this, the need for holding a public hearing (as defined in EIA Notification 2006 of GoI) was not perceived as EIA Notification is not applicable to ASU project. However, in compliance with the ADB's guidelines, focused stakeholder consultations are being undertaken in the ASU site in Mangaldai and Interim campus at Guwahati. The consultations were held in a timely manner. The number of participants (male and female) is given in **Table-16**.

38. The process of consultations is 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.

39. The dates of consultations and stakeholders consulted in the current reporting period are summarized in **Table-16** and details of discussions in **Table-17**. The photographs and attendance sheets of ASU site and ASU interim campus consultations are given in **Annexure-16**.

Table-16: Dates and Stakeholders Consultation

Sl. No.	Stakeholder Consultations locations and participants	Dates of Consultation	Number of Participants	
			Male	Female
1	A stakeholder consultation was held with some local people, and PMU-ASUP at ASU site Mangaldai	24.09.2024	03	06
2	GRM Meeting with Level 1 GRC Members.	18.09.2024	02	02
3	Consultation with all interested parties by Environment Consultant ADB, PMU, PMC at ASU site Mangaldai	17.01.2025	13	01
4	Consultation with all interested parties by Environment Consultant-ADB,PMC/PMU and ASU at Interim campus	18.01.2025	07	03

Table-17: Details of discussion with stakeholders

Sl. No.	Stakeholder consultation Location	Issues Discussed and consideration in Project Implementation
1	A stakeholder consultation was held with some local people, contractors and PMU-ASUP (for Photographs and attendance sheet refer Annexure-16) on 24.09.2024.	The main objective of the consultation was to discuss about any environmental issues at site due to ongoing construction. The local people did not raise any issues. Further they were informed about the preparedness for the coming monsoon. They were made aware about the planned drainage system of the campus and the mitigation plan of the campus for the coming monsoon.
2	GRM Meeting with Level1 GRC members on 18.09.2024	Grievance redressal of dust issue lodged by local. Mitigation measures implemented for redressal.
3	Consultation with all interested parties by Environment Consultant ADB, PMU, PMC at ASU site Mangaldai	Points covered during consultation as following : <ul style="list-style-type: none"> • Important of ADB safeguard policy and its impact on progress. • Update labour camp welfare basic facilities for betterment. • Construction of Sedimentation tank with RMC plants.
4	Consultation with all interested parties by Environment Consultant-ADB, PMC/PMU and ASU at Interim campus	Points covered during consultation as following:- <ul style="list-style-type: none"> • Operational phase IEE requirements and compliance • Operational phase EMP awareness. • Monitoring, waste management (including e-waste, plastic waste, hazardous waste etc) and necessary consultations to be held as per the EMP and finalization of the SOPs for the laboratories and workshops. <p>Question and answer session with interested parties for better understanding of aspect and impact.</p>

B. Future Consultation and Information Disclosure

40. Most of the suggestions of stakeholders during consultation were considered in the project design. 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 University operation to the stakeholders and the communities in the vicinity of site, a project awareness campaign will be carried out.

Information Disclosure

41. Electronic version of the IEE documents of the CW01, CW02, CW03 and CW04 has been placed in the official websites of the ASU (both in English and Assamese) and ADB. The weblink for the IEE reports is <https://www.asu.ac.in/reports.php>. On demand, any person seeking information can obtain a hard copy of the complete IEE document from the office of the PMU and ASU site office on a written request. The hard copies of the IEE report in local language is available at ASU office, Guwahati and ASU site office, Mangaldai for reference.

ANNEXURE-1: CAPACITY BUILDING ON ENVIRONMENTAL SAFEGUARD

Fire mock-drill at Interim Campus on 17.08.2024

Session with Disaster management
Consultant with students



A training for civil contracts HSE personal, PMU & PMC at ASU site Mangaldai on 24.09.2024

Training for HSE Personnel.

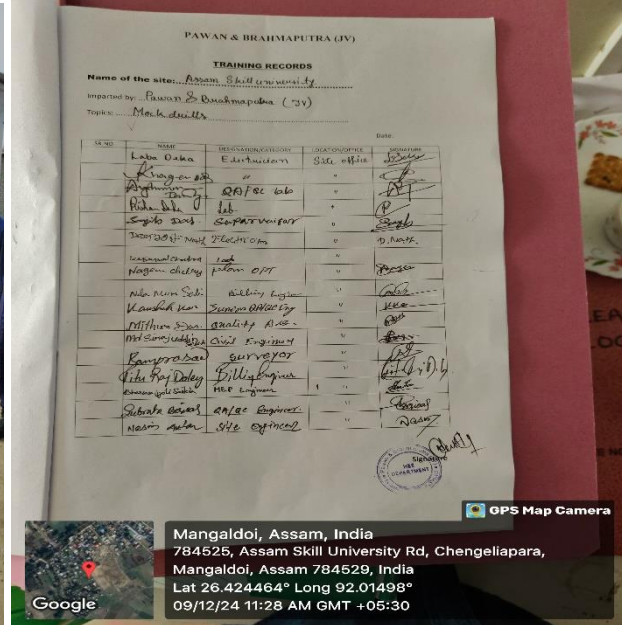
Date: 24.09.2024 Time: 1pm - 2pm

Venue: ASU Site

Stakeholder type: PMU, CW04, CW02 Contractor, 0

Sl. No.	Name	Organization/Designation	Gender	Signature	Ph/mail
1	L. Ram Singh	Project Manager	M	[Signature]	986956607, vamsinghnet@gmail.com
2	Joyanta Bhattacharya	Safety Eng.	M	[Signature]	6000869311
3	B. Nisanth Rao	HSE Manager	M	[Signature]	87877767
4	LINAKHAT PANDA	Social Category EXIST CSO	M	[Signature]	9937235
5	Sanghita Dutta	Env. Specialist, ASUP	F	S. Dutta	887639675
6	Syedra Mehgebin Rahman	Gender and IPP Specialist	F	S. Rahman	986487625
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Fire mock drill at ASU Mangaldai on 07.12.2024



Training on Environmental Safeguard by CS01 Environment Specialist on 05.01.2025



Stakeholder consultation - Environmental Safeguard

Date: 05-01-2025
Venue: ASU - Site

Sl. No.	Name	Organization & Designation	Gender	Signature	PH/MAIL
1	Balindam Paik	CS-02	M		
2	Dr. Jyoti Singh	CS-02 (Site Supervisor)	M		
3	Ashraf Khan	CS-02 (Site Supervisor)	M		
4	Chellappan Karthikeyan	CS-02 (Site Supervisor)	M		
5	Rashid Ahmad	CS-02 (Site Supervisor)	M		
6	Rashid Ahmad	CS-02 (Site Supervisor)	M		
7	Agustina Chandra	CS-02 (Site Supervisor)	M		
8	Rashid Ahmad	CS-02 (Site Supervisor)	M		
9	Rashid Ahmad	CS-02 (Site Supervisor)	M		
10	Rashid Ahmad	CS-02 (Site Supervisor)	M		
11	Rashid Ahmad	CS-02 (Site Supervisor)	M		
12	Rashid Ahmad	CS-02 (Site Supervisor)	M		
13	Rashid Ahmad	CS-02 (Site Supervisor)	M		
14	Rashid Ahmad	CS-02 (Site Supervisor)	M		
15	Rashid Ahmad	CS-02 (Site Supervisor)	M		
16	Rashid Ahmad	CS-02 (Site Supervisor)	M		
17	Rashid Ahmad	CS-02 (Site Supervisor)	M		
18	Rashid Ahmad	CS-02 (Site Supervisor)	M		
19	Rashid Ahmad	CS-02 (Site Supervisor)	M		
20	Rashid Ahmad	CS-02 (Site Supervisor)	M		
21	Rashid Ahmad	CS-02 (Site Supervisor)	M		
22	Rashid Ahmad	CS-02 (Site Supervisor)	M		
23	Rashid Ahmad	CS-02 (Site Supervisor)	M		

24. Rish Singh Doley
CS-02
Planning Engineer
Male
Rish Singh Doley

25. Dr. Jyoti Singh
CS-02
Site Engineer
Male
Dr. Jyoti Singh

26. Rashid Ahmad
Site Supervisor
Male
Rashid Ahmad

27. Rashid Ahmad
Site Engineer
Male
Rashid Ahmad

28. Rashid Ahmad
CS-02
Site Engineer
Male
Rashid Ahmad

29. Rashid Ahmad
CS-02
Site Engineer
Male
Rashid Ahmad

30. Rashid Ahmad
CS-02
Site Engineer
Male
Rashid Ahmad

CS-02 - Environment Specialist

ANNEXURE-2: LETTER OF TRANSITION OF IA FROM ASDM TO ASU



GOVERNMENT OF ASSAM
SKILL, EMPLOYMENT & ENTREPRENEURSHIP DEPARTMENT
DISPUR:.....GUWAHATI-6
Block-D, 1st Floor, Janata Bhawan, seed-deptt@assam.gov.in,
<https://skill.assam.gov.in/>

Ecf No. SEED/183109/167

26-06-2024

From : Shri Bhupesh Ch. Das, ACS
Joint Secretary to the Govt. of Assam,
Skill Employment & Entrepreneurship Department.

To : The Mission Director,
Assam Skill Development Mission, Gorchu Bazar

Sub : Clause 17 of Aid memoire, the proposed transition of the
Project's Implementing Agency (PIA) from ASDM to ASU.

Madam,

In inviting a reference to the subject quoted above, I am directed to convey the approval of Clause 17 of Aid memoire, the proposed transition of the Project's Implementing Agency (PIA) from Assam Skill Development Mission to Assam Skill University for necessary action.

This has the approval of Hon'ble Chief Minister, Assam.

Yours faithfully,

Signed by
Bhupesh Chandra Das

Date: 26-06-2024 12:45:49
Joint Secretary to the Govt. of Assam,
Skill Employment & Entrepreneurship Department

Memo Ecf No. SEED/183109/167-A

26-06-2024

Copy to -

1. The CEO, Assam Skill University Project, Rehabari for informaton and necessary action.
2. P.S. to Hon'ble Minister, Skill, Employment and Entrepreneurship Department, Assam for kind appraisal of Hon'ble Minister.
3. P.S. to the Principal Secretary to Chief Minister, Assam for kind appraisal of Hon'ble Chief Minister
4. P.S. to Vice Chencellor , Assam Skill University , Rehabari for kind appraisal of Vice Chencellor
5. P.S. to the Principal Secretary to the govt. of Assam, Skill, Employment and Entrepreneurship Department for kind appraisal of the Principal Secretary.

ANNEXURE-3: GRIEVANCE REDRESSAL COMMITTEE OF ASUP



ASSAM SKILL UNIVERSITY PROJECT

Guwahati Office: 3rd Floor, DECT Office Complex, Rehabari, Guwahati – 781008

Ref.: ASDM/ASUP/2/2021/34

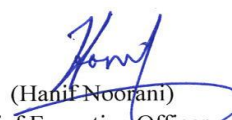
Dated Guwahati, the 16th August'2024

Officer Order

The competent authority hereby constitutes the following three-tier grievance redressal committee for addressing the concerns of ASUP at the site level, PMU level, at the state level:

Sl. No.	Name	Position
Grievance redressal at the site level (Level 1)		
1	Mr. Paresk Deka, Project Technical Manager, PMU, ASUP	Grievance Redressal Officer 1
2	Mr. Yashman Angira, Site Engineer, PMU, ASUP	Internal Member
3	Dr. Sanghita Dutta, Environment Specialist, PMU, ASUP	Internal Member
4	Ms. Syeda Mehzebin Rahman, Gender and Indigenous Peoples Specialist, PMU, ASUP	Internal Member
5	Mr. Deepjyoti Baishya, DPM, Darrang, ASDM	External Member
6	Elected representative of Panchayat, Moamari, Darrang	External Member
Grievance redressal at the PMU level (Level 2)		
1	Mr. Hanif Noorani, CEO, ASUP & Registrar, ASU	Grievance Redressal Officer 2
2	Mr. Himalay Sarma, DPD, ASUP	Internal Member
3	Mr. Durlov Borgohain, HR and Admin Executive, PMU, ASUP	Internal Member
4	Dr. Sanghita Dutta, Environment Specialist, PMU, ASUP	Internal Member
5	Ms. Syeda Mehzebin Rahman, Gender and Indigenous Peoples Specialist, PMU, ASUP	Internal Member
6	Mr. Rupom Chetia Bora, Communication Manager, PMU, ASUP	Internal Member
7	Ms. Manoshi Phukan, Legal Advisor, ASDM	External Member
Grievance redressal at the State level (Level 3)		
1	Principal Secretary, Skill, Employment and Entrepreneurship Department, Govt. of Assam,	Grievance Redressal Officer 3

This committee comes into force with immediate effect and would continue till further orders.


(Hanif Noorani)
Chief Executive Officer
Assam Skill University Project

Memo No. ASDM/ASUP/2/2021/34-A

Dated Guwahati, the 16th August'2024

Copy to:

1. The concerned officials
2. Office copy

**ANNEXURE-4: QUARTER 4-2024 ENVIRONMENTAL MONITORING RESULTS CW02
GROUND WATER**

গীনটেক এনভাইরনমেন্টাল ইঞ্জিনিয়ার এণ্ড কন্সালটেন্টছ
GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS
House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
 Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in

Format No.: GEEC/FM/50

TEST REPORT						
ULR Number: TC143612400000530F						
Ref. No.: GEEC/FL/23/2024/12/28		Date of Reporting:		26/12/2024		
Customer Name:		PCPL & BIL		Lab. ID No.:		GEEC/WS/2024/12/28
Customer Address:		PCPL & BIL Assam Skill University Mangaldoi		Date of Sampling:		17/12/2024
Sampling Location:		Canteen		Sample Receipt Date:		17/12/2024
Sample Description:		Ground Water		Test Start Date:		18/12/2024
Sample Drawn By:		Mr. Dilip Deka		Test Completion Date:		24/12/2024
Sample Condition:		Sealed		Sampling Method:		GEEC/SOP/02

SL. NO.	DESCRIPTION	METHOD	UNIT	RESULTS	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1	pH	IS 3025 Part 11 2022	—	6.50	6.5 - 8.5	No relaxation
2	Conductivity	IS 3025 Part 14 2013 (RA:2019)	ms	0.31	—	—
3	Colour	IS 3025 Part 4 2021	Hazen	Colourless	5	15
4	Taste	IS 3025 (Part 8) 2023	mg/l	Agreeable	Agreeable	Agreeable
5	Temperature	IS 3025 Part 9 2023	mg/l	22.8	—	—
6	Total Dissolved Solids	IS 3025 Part 16 2023	mg/l	184	500	2000
7	Total Suspended Solids	IS 3025 Part 17 2022	mg/l	< 10	—	—
8	Turbidity	IS 3025 Part 10 2023	NTU	0.9	1	5
9	Dissolved Oxygen	IS 3025 Part 38 1989(RA 2019)	mg/l	3.2	—	—
10	BOD	IS 3025 Part 44 2023	mg/l	< 2	—	—
11	COD	IS 3025 Part 58 2023	mg/l	< 5	—	—
12	Alkalinity	IS 3025 Part 23 2023	mg/l	125	200	600
13	Arsenic	IS 3025 Part 37 1988 (RA:2019)	mg/l	<0.01	0.01	0.05
14	Chlorides	IS 3025 Part 32 1988 (RA:2019)	mg/l	12.9	250	1000
15	Fluoride	APHA 24th EDN, 2023	mg/l	< 0.5	1	1.5
16	Hardness	IS 3025 Part 21 2009 (RA:2019)	mg/l	134	200	600
17	Calcium	IS 3025 Part 40 2004 (RA:2019)	mg/l	31.2	75	200
18	Iron	IS 3025 Part 53 2024	mg/l	0.28	0.30	No relaxation
19	Copper	APHA 24th EDN, 2023	mg/l	< 0.05	0.05	1.5
20	Lead	APHA 24th EDN, 2023	mg/l	< 0.01	0.01	No relaxation
21	Odour	IS 3025 Part 5 2018	—	Agreeable	Agreeable	Agreeable
22	Sulphates	IS 3025 Part 24 2022	mg/l	4	200	400

Checked by:
Dr. Belinda Lahon
Dr. Belinda Lahon
Quality Manager

Authorised by:
Mr. Pranjal Buragohain
Mr. Pranjal Buragohain
Authorised Signatory

* The results relate only to the item tested.
 * The test report shall not be reproduced except in full, without written approval of the laboratory.

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GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS
House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
 Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in

Format No.: GEEC/FM/50

TEST REPORT						
Ref. No.: GEEC/WS/2024/12/28						
Customer Name:		PCPL & BIL		Date of Reporting:		26/12/2024
Customer Address:		PCPL & BIL Assam Skill University Mangaldoi		Lab. ID No.:		GEEC/WS/2024/12/28
Sampling Location:		Canteen		Date of Sampling:		17/12/2024
Sample Description:		Ground Water		Sample Receipt Date:		17/12/2024
Sample Drawn By:		Mr. Dilip Deka		Test Start Date:		18/12/2024
Sample Condition:		Sealed		Test Completion Date:		24/12/2024
				Sampling Method:		GEEC/SOP/02

SL. NO.	DESCRIPTION	METHOD	UNIT	RESULTS	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1	Alkalinity as Na ₂ CO ₃	IS 3025 Part 23 2023	mg/l	20	—	—
2	Cadmium	IS 3025 Part 41 1992 (RA:2019)	mg/l	< 0.003	0.003	No relaxation
3	Chromium	IS 3025 Part 52 2003 (RA:2019)	mg/l	< 0.05	0.05	No relaxation
4	Mercury	IS 3025 Part 48 1994 (RA:2019)	mg/l	<0.001	0.001	No relaxation
5	Magnesium	IS 3025 Part 46 1994 (RA:2019)	mg/l	13.6	30	100
6	Nitrate	IS 3025 Part 34 1988 (RA:2019)	mg/l	< 5	45	No relaxation
7	Potassium	IS 3025 Part 45 1993 (RA:2019)	mg/l	5	—	—
8	Sodium	IS 3025 Part 45 1993 (RA:2019)	mg/l	8	—	—
9	Zinc	IS 3025 Part 49 1994 (RA:2019)	mg/l	< 0.5	5	15
10	Faecal coliform	APHA 24th EDN, 2023	MPN/100ml	Absent	Absent	Absent
11	Total coliform	APHA 24th EDN, 2023	Present/Absent	Absent	Absent	Absent

Checked by:
Dr. Belinda Lahon
Dr. Belinda Lahon
Quality Manager

Authorised by:
Mr. Pranjal Buragohain
Mr. Pranjal Buragohain
Authorised Signatory

* The results relate only to the item tested.
 * The test report shall not be reproduced except in full, without written approval of the laboratory.
 * The test report cannot be used as an evidence in a court of law without prior written approval of the laboratory.

Surface water



গ্ৰীনটেক এনভাইৰনমেণ্টেল ইঞ্জিনিয়াৰ এণ্ড কন্সালটেন্টছ GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in



TC-14361

TEST REPORT

Format No.: GEEC/FM/50

ULR Number: TC143612400000528F					
Ref. No.: GEEC/FL/23/2024/12/26					
Customer Name:		PCPL & BIL		Date of Reporting:	
Customer Address:		PCPL & BIL Assam Skill University Mangaldoi		Lab. ID No.: GEEC/WS/2024/12/26	
Sampling Location:		Pond Near Project Site		Date of Sampling:	
Sample Description:		Surface Water		17/12/2024	
Sample Drawn By:		Mr. Dilip Deka		Sample Receipt Date:	
Sample Condition:		Sealed		17/12/2024	
				Test Start Date:	
				18/12/2024	
				Test Completion Date:	
				24/12/2024	
				Sampling Method:	
				GEEC/SOP/02	

SL. NO.	DESCRIPTION	METHOD	UNIT	RESULTS	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1	pH	IS 3025 Part 11 2022	—	6.52	6.5 - 8.5	No relaxation
2	Conductivity	IS 3025 Part 14 2013 (RA:2019)	ms	0.09	—	—
3	Colour	IS 3025 Part 4 2021	Hazen	Colourless	5	15
4	Taste	IS 3025 (Part 8) 2023	mg/l	Agreeable	Agreeable	Agreeable
5	Temperature	IS 3025 Part 9 2023	mg/l	22.7	—	—
6	Total Dissolved Solids	IS 3025 Part 16 2023	mg/l	51	500	2000
7	Total Suspended Solids	IS 3025 Part 17 2022	mg/l	< 10	—	—
8	Turbidity	IS 3025 Part 10 2023	NTU	4.5	1	5
9	Dissolved Oxygen	IS 3025 Part 38 1989(RA 2019)	mg/l	4	—	—
10	BOD	IS 3025 Part 44 2023	mg/l	2.8	—	—
11	COD	IS 3025 Part 58 2023	mg/l	< 5	—	—
12	Alkalinity	IS 3025 Part 23 2023	mg/l	25	200	600
13	Arsenic	IS 3025 Part 37 1988 (RA:2019)	mg/l	<0.01	0.01	0.05
14	Chlorides	IS 3025 Part 32 1988 (RA:2019)	mg/l	< 1	250	1000
15	Fluoride	APHA 24th EDN, 2023	mg/l	< 0.5	1	1.5
16	Hardness	IS 3025 Part 21 2009 (RA:2019)	mg/l	27	200	600
17	Calcium	IS 3025 Part 40 2004 (RA:2019)	mg/l	13.6	75	200
18	Iron	IS 3025 Part 53 2024	mg/l	0.18	0.30	No relaxation
19	Copper	APHA 24th EDN, 2023	mg/l	< 0.05	0.05	1.5
20	Lead	APHA 24th EDN, 2023	mg/l	< 0.01	0.01	No relaxation
21	Odour	IS 3025 Part 5 2018	—	Agreeable	Agreeable	Agreeable
22	Sulphates	IS 3025 Part 24 2022	mg/l	< 2	200	400

Checked by: *Belinda Lahon*
Dr. Belinda Lahon
Quality Manager

Authorised by: *Pranjal Buragohain*
Mr. Pranjal Buragohain
Authorised Signatory

- * The results relate only to the item tested.
- * The test report shall not be reproduced except in full, without written approval of the laboratory.
- * The test report cannot be used as an evidence in a court of law without prior written approval of the laboratory.

PAGE 1 of 1

TEST REPORT

Format No.: GEEC/FM/50

Ref. No.: GEEC/WS/2024/12/26		Date of Reporting:		26/12/2024	
Customer Name:		PCPL & BIL		Lab. ID No.: GEEC/WS/2024/12/26	
Customer Address:		PCPL & BIL Assam Skill University Mangaldoi		Date of Sampling:	
Sampling Location:		Pond Near Project Site		17/12/2024	
Sample Description:		Surface Water		Sample Receipt Date:	
Sample Drawn By:		Mr. Dilip Deka		18/12/2024	
Sample Condition:		Sealed		Test Completion Date:	
				24/12/2024	
				Sampling Method:	
				GEEC/SOP/02	

SL. NO.	DESCRIPTION	METHOD	UNIT	RESULTS	Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
1	Alkalinity as Na ₂ CO ₃	IS 3025 Part 23 2023	mg/l	28	—	—
2	Cadmium	IS 3025 Part 41 1992 (RA:2019)	mg/l	< 0.003	0.003	No relaxation
3	Chromium	IS 3025 Part 52 2003 (RA:2019)	mg/l	< 0.05	0.05	No relaxation
4	Mercury	IS 3025 Part 48 1994 (RA:2019)	mg/l	<0.001	0.001	No relaxation
5	Magnesium	IS 3025 Part 46 1994 (RA:2019)	mg/l	< 2	30	100
6	Nitrate	IS 3025 Part 34 1988 (RA:2019)	mg/l	< 5	45	No relaxation
7	Potassium	IS 3025 Part 45 1993 (RA:2019)	mg/l	< 5	—	—
8	Sodium	IS 3025 Part 45 1993 (RA:2019)	mg/l	< 5	—	—
9	Zinc	IS 3025 Part 49 1994 (RA:2019)	mg/l	< 0.5	5	15
10	Faecal coliform	APHA 24th EDN, 2023	Present/ Absent	Present	Absent	Absent
11	Total coliform	APHA 24th EDN, 2023	Present/ Absent	Present	Absent	Absent

Checked by: *Belinda Lahon*
Dr. Belinda Lahon
Quality Manager

Authorised by: *Pranjal Buragohain*
Mr. Pranjal Buragohain
Authorised Signatory

Ambient noise



গীনটেক এনভাইরনমেন্টাল ইঞ্জিনিয়ার এণ্ড কন্সালটেন্টছ


GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in



TEST REPORT

Format No:GEEC/FM/47A

ULR Number: TC599124000000525F								
Report No:GEEC/FL/22/SLM/2024/12/10				Date:		26/12/2024		
Customer Name and Address		PCPL & BIL (JV) 4th Floor, Royal Arcade, B. Baruah Road Ulubari, Guwahati, Assam-781007			Lab Id.:		GEEC/NLM/2024/12/10	
Name of the Project		Assam Skill University, Bidyanagar, Mangaldoi Darrang, Assam 784125						
Noise Level Report								
Monitoring Location:		Project Site		Monitoring Date:		16/12/2024-17/12/2024		
Weather/Wind:		Cloudy		Sound Level Meter		SL-4033SD		
Monitored By:		Mr.Dilip Kr. Deka		SI.No.		Q699158		
Measurement Results								
Sl. No.	Location	Time	Unit	Sound Parameters			Method	CPCB Limit as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Leq (dBA)
				Leq	Lmin	Lmax		
1	Site Office	Day Time	dB(A)	61.4	54.2	67.3	Ambient Noise GEEC/SOP/AN/01 Issue date 27/05/2017	Day time Leq < 65 dB (A) Leq Night Time Leq < 55 dB (A)
2	Guest House	Day Time	dB(A)	58.1	50.8	64.8		
3	Labour Camp	Day Time	dB(A)	56.6	51.6	68.4		
4	Admin Block	Day Time	dB(A)	59.1	50.4	66.1		
Remark: Noise level CPCB Limit for Commercial area Day time Leq < 65 dB (A) Leq Night Time Leq < 55 dB (A)								
Checked by <i>Belinda Lahon</i> Dr. Belinda Lahon Quality Manager								Reviewed by: <i>Pranjal Buragohain</i> Pranjal Buragohain Authorised Signatory

The results relate only to the item tested.

The test report shall not be reproduced except in full, without written approval of the laboratory.

The test report cannot be used as an evidence in a court of law without prior written approval of the laboratory.

***** End of Report *****

Page 01/02



গীনটেক এনভাইরনমেন্টাল ইঞ্জিনিয়ার এণ্ড কন্সালটেন্টছ


GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in



TEST REPORT

Format No:GEEC/FM/47A

ULR Number: TC599124000000525F								
Report No:GEEC/FL/22/SLM/2024/12/10				Date:		26/12/2024		
Customer Name and Address		PCPL & BIL (JV) 4th Floor, Royal Arcade, B. Baruah Road Ulubari, Guwahati, Assam-781007			Lab Id.:		GEEC/NLM/2024/12/10	
Name of the Project		Assam Skill University, Bidyanagar, Mangaldoi Darrang, Assam 784125						
Noise Level Report								
Monitoring Location:		Project Site		Date of Monitoring:		16/12/2024-17/12/2024		
Monitoring Location:		Project Site		Monitoring Date:		16/12/2024-17/12/2024		
Weather/Wind:		Cloudy		Sound Level Meter:		SL-4033SD		
Measurement Results								
Sl. No.	Location	Time	Unit	Sound Parameters			Method	CPCB Limit as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Leq (dBA)
				Leq	Lmin	Lmax		
1	Site Office	Night Time	dB(A)	47.2	38.9	55.4	Ambient Noise GEEC/SOP/AN/01 Issue date 27/05/2017	Day time Leq < 65 dB (A) Leq Night Time Leq < 55 dB (A)
2	Guest House	Night Time	dB(A)	44.2	40.1	58.1		
3	Labour Camp	Night Time	dB(A)	40.1	39.2	46.7		
4	Admin Block	Night Time	dB(A)	41.6	38.6	45.6		
Remark: Noise level CPCB Limit for Commercial area Day time Leq < 65 dB (A) Leq Night Time Leq < 55 dB (A)								
Checked by <i>Belinda Lahon</i> Dr. Belinda Lahon Quality Manager								Reviewed by: <i>Pranjal Buragohain</i> Pranjal Buragohain Authorised Signatory

The results relate only to the item tested.

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***** End of Report *****

Page 02/02

Ambient air



গ্ৰীনটেক এনভাইৰনমেন্টেল ইঞ্জিনিয়াৰ এণ্ড কন্সালটেন্টছ GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentechec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentechec.in



TC-14361

Format No.: GEEC/FM/48

TEST REPORT

ULR Number: TC599124000000518F					
Test Report No.:	GEEC/FL/22/2024/12/09		Date:	26/12/2024	
Customer Name & Address :	PCPL & BIL (JV) 4th Floor, Royal Arcade, B. Baruah Road Ulubari, Guwahati, Assam-781007		Lab. ID No.:	GEEC/AA/2024/12/09	
			Name of the Project:	Assam Skill University, Bidyanagar, Mangaldoi Darrang, Assam 784125	
Sampling Location:	Near Gate N:26°25'30", E:92°00'56"		Date of Sampling:	16/12/2024-17/12/2024	
Weather Condition	Cloudy		Ambient Temperature:	Max. 26.9°C	Min. 11.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle		Date of Sample Receipt:	18/12/2024	
Monitored By:	Mr.Dilip Kr. Deka		Test Start Date:	18/12/2024	
Equipments Details:	Fine Dust Sampler:APM-550 MFC (Sl.No. 411 DTK-2017) RDS: APM-460 (Sl.No.2196 DTF 2017) Gaseous Sampler APM-411 (6038 DTL-2017)		Test End Date:	19/12/2024	
AMBIENT AIR QUALITY					
Sampling and Analysis carried out as per GEEC/SOP/01					
Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	74	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	38	60	IS 5182(24)
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	12	80	IS 5182(6)
Remark: .The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009					
Checked by: Dr. Belinda Lahon Quality Manager			Reviewed by: Pranjal Buragohain Authorised Signatory		

* The results relate only to the item tested.

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***** End of Report*****

Page1 of 1



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রैडिसन ब्लू के पास, एन एड्च २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report No.: ABNS/EM/250106/10	Date : 06/01/2025
Name & Address of the Customer: THE REGISTRAR, ASSAM SKILL UNIVERSITY, 3rd Floor DECT Office, Rehabari 781008 Kamrup (M), Assam.	Project name: Assam Skill University Project (ASUP) interim campus CW-03, ITI Campus, Rehabari.
Ref.: ABNS/ EM/241115/06 Sample Description: Noise Level	Date of sampling: From 30/12/2024 - 31/12/2024

ANALYSIS RESULT

Sl. No.	Test Locations	Results		Reference Method
		Leq dB(A) (Day)	Leq dB(A) (Night)	
1	Near Site Office	62.4	51.0	IS 9989-2003
Ambient Noise Standards(CPCB):				
		Area Code	Category of Area	Limit in dB(A) Leq
				Day time Night time
		A.	Industrial area	75 70
		B.	Commercial area	65 55
		C.	Residential area	55 45
		D.	Silence Zone	50 40

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Mayur Jyoti Mahanta (QM)

ABNS
06/01/2025
Authorized Signatory



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইনটিক চাৰ্জিচ
এবীএনএস সাইন্টিফিক সৰ্বসেজ

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ब्लू के पास, एन एच २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report No.: ABNS/EM/250106/09	Date : 06/01/2025
Name & Address of the Customer : THE REGISTRAR, ASSAM SKILL UNIVERSITY, 3rd Floor DECT Office, Rehabari 781008 Kamrup (M), Assam.	Project name: Assam Skill University Project (ASUP) Interim campus CW-03, ITI Campus, Rehabari.
Ref.: ABNS/Q/EM/241115/04 Sample Description: Ambient Air Location: Near Laboratory (Latitude: 26.165055N, Longitude: 91.744524E) Weather: Clear	Date of sampling: 30/12/2024 Sampling done by: Mr. Chinmoy Kalita (Sampler) Sampling Protocol: IS 5182 (Part 5): 2020 Sample No: ABNS/GHY/061824/AAQ03 Analysis start Date: 31/12/2024 Analysis end Date: 04/01/2025
Environmental Condition: Temperature 23.2°C, Relative Humidity: 66%	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
1.	Particulate Matter (<10µm)	µg/m ³	92.0	100	IS 5182: Part 23:2006 (Reaff. 2012)
2.	Particulate Matter (<2.5µm)	µg/m ³	53.0	60	Lab SOP.Doc.NO. TPM/ABNS/E/5/D
3.	Sulphur Dioxide (SO ₂)	µg/m ³	11.4	80	IS 5182 : Part 2 :2001 (Reaff.2012)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	28.6	80	IS 5182 : Part 6 :2006 (Reaff.2012)

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Mayur Jyoti Mahanta (QM)

06/01/2025

Authorized Signatory



ABNS SCIENTIFIC SERVICES

এবিএনএস সাইন্টিফিক সার্ভিসেস

एबीएनएस साइंटिफिक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

केतेकी पथ, रेडिसन ब्लू के पास, एन एच २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report No.: ABNS/EM/250108/03	Date : 08/01/2025
Name & Address of the Customer: THE REGISTRAR, ASSAM SKILL UNIVERSITY, 3rd Floor DECT Office, Rehabari 781008 Kamrup (M), Assam.	Project name: Assam Skill University Project (ASUP) interim campus CW-03, ITI Campus, Rehabari.
Ref.: ABNS/Q/EM/241115/03 Sample Description : Ground Water Sample Source : Bore Well	Date of Sampling: 30/12/2024 Sampling done by: Mr. Chinmoy Kalita (Sampler) Sampling Protocol: IS 3025 (Part 1): 1987, Reaff. 1999
Environmental Condition: Temperature: 22.7 °c, Humidity: 70%	Sample No: ABNS/GHY/061724/GW01 Analysis Start Date: 30/12/2024 Analysis End Date: 06/01/2025

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Color	IS: 3025-(part4): 1983	Hazen	5	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	---	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983	---	7.19	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983	NTU	0.40	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983	mg/l	262	500 Max	2000 Max
7	Conductivity	IS 3025 Part 14	mS/cm	0.310	-	-
8	Total Alkalinity as CaCO ₃	IS: 3025-(part23): 1986	mg/l	134.0	200 Max	600 Max
9	Total Hardness as CaCO ₃	IS: 3025-(part21) 2009	mg/l	102.0	200 Max	600 Max
10	Calcium as Ca	IS: 3025-(part40): 1991	mg/l	46.56	75 Max	200 Max
11	Magnesium as Mg	IS: 3025-(part46): 1994	mg/l	9.42	30 Max	100 Max
12	Sulphate as SO ₄	IS: 3025-(part24): 1983	mg/l	68.5	200 Max	400 Max
13	Nitrate as NO ₃	IS: 3025-(part34): 1988	mg/l	6.40	45 Max	No Relaxation
14	Chloride as Cl	IS: 3025-(part32): 1988	mg/l	42.0	250 Max	1000 Max



Page: 1

15	Fluoride as F	IS: 3025-(part60): 2006	mg/l	0.38	1 Max	1.5 Max
16	Manganese as Mn	IS: 3025-(part59): 2006	mg/l	BDL	0.1 Max	0.3 Max
17	Copper as Cu	IS: 3025-(part42): 1992	mg/l	BDL	0.05 Max	1.5 Max
18	Iron as Fe	IS: 3025-(part53): 2003	mg/l	0.32	0.3 Max	No Relaxation
19	Zinc as Zn	IS: 3025-(part49): 1994	mg/l	0.94	5 Max	15 Max
20	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	BDL	0.5 Max	No Relaxation
21	Aluminium as Al	IS: 3025-(part55)	mg/l	BDL	0.03 Max	0.2 Max
22	Arsenic	IS: 3025-(part 37)	mg/L	BDL	0.01	0.05
23	Lead as Pb	IS: 3025-(part47): 1994	mg/l	BDL	0.01 Max	No relaxation
24	Coliform Organism	APHA 23 rd Edn. 9222B	CFU/100 ml	Absent	Absent	-
25	E.Coli	APHA 23 rd Edn. 9222B	CFU/100 ml	Absent	Absent	-

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- Results relate only to the parameters tested. ***BDL- Below detection limits.

End of Report

For ABNS Scientific Services

Report reviewed By: Dr. Mayur Jyoti Mahanta (QM)


 Authorized Signatory

ANNEXURE-6: CONTRACT LABOUR LICENSE OF CW02

STOP CHILD LABOUR



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

UBIN : 618/592344/NOPAN/5/2024
UAIN : LCFORMIVCL/2024/12682
License No. : CLL/2024/HN172260539521740
Date of Issue : 02/08/2024

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 **OFFICE OF THE 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 **07/06/2025**.
4. Maximum No of contract labour proposed to be employed in the establishment on any date : **650 nos.**
5. **VALID FOR ALL OVER ASSAM**, and only for the purpose mentioned in this certificate.

6. Payment Details:

GRN AS002736324202425E
Bank SBI
Code
Amount 48150.00
Status Y



(Scan the QR Code for authentication)

Office of the Commissionerate of Labour
Licensing Officer

*** This is a computer generated certificate and it does not require a Signature/Seal.***
Terms & Conditions of this Certificate is enclosed as Annexure-I.

STOP CHILD LABOUR

ANNEXURE-7: MIGRANT LABOUR LICENCE OF CW02

STOP CHILD LABOUR



GOVT. OF ASSAM
LO Office(Mangaldoi)
FORM 11

CERTIFICATE OF REGISTRATION UNDER INTER-STATE MIGRANT WORKMEN (RE & CS) ACT, 1979

UAIN : LCFORM1/2023/00042
Registration No. : MGW(E)/2023/4016976200250772U
Date of Issue : 18/10/2023

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 PAWAN COMMUNICATIONS PVT LTD IN WITH BRAHMAPUTRA INFRASTRUCTURE LIMITED**.

1. Nature of work carried on in the establishment: **CONSTRUCTION OF ASU CAMPUS AND FACILITIES**

2. Name and Address of contractors:

S. No.	Full Name	Street Name 1	Street Name 2	Village/Town	District	Pincode	State
1.	PAWAN COMMUNICATIONS PVT LTD IN WITH BRAHMAPUTRA INFRASTRUCTURE LIMITED	Royal Arcade, 4th Floor, Part-II	B B Raod	Ulubari	Kamrup (M)	781007	Assam

3. Nature in which migrant workmen are to be employed or are employed: **CONSTRUCTION OF ASU CAMPUS AND FACILITIES**

4. Maximun no. of migrant workmen to be employed on any day through each contractor: **150**

5. Other particulars relevant to the employment of migrant workmen:

6. Payment Details:

GRN AS004531721202324E
CIN 00030302023181043088
Txn Date 18/10/2023
Amount 300.00
Status Y



(Scan the QR Code for authentication)

LO
Office(Mangaldoi)
Registering Officer

*** This is a computer generated certificate and it does not require a Signature/Seal.***
Terms & Conditions of this Certificate is enclosed as Annexure-I.

STOP CHILD LABOUR

ANNEXURE-8: CONTRACT LABOUR LICENCE OF CW04

STOP CHILD LABOUR



ফর্ম-ভি
FORM-VI
[See Rule-25(1)]

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

UBIN : 618/930453/AHCPB6340D/6/2024
UAIN : LCFORMIVCLJ2024/18748
License No. : CLL/2024/401732116949981J3
Date of Issue : 20/11/2024

1. Licence is hereby granted to **BHASKAR BARUAH** under Section 12(1) of the Contract Labour (Regulation and Abolition) Act, 1970 subject to the conditions specified in this Annexure.

2. The Licence is for doing the work of **CONSTRUCTION OF REMAINING BOUNDARY WALL ASU CAMPUS MANGALDOI**, in the Establishment of **OFFICE OF THE DEPUTY PROJECT DIRECTOR AS-SAM SKILL UNIVERSITY PROJECT**, C/O. GOVERNMENT OF ASSAM at 3rd FLOOR, DECT OFFICE COMPLEX, REHABARI, GUWAHATI, KAMRUP METRO - 781008, ASSAM.

3. The Licence shall remain in force till **19/11/2025**.

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

5. **VALID FOR ALL OVER ASSAM**, and only for the purpose mentioned in this certificate.

6. Payment Details:

GRN AS005702147202425E
CIN 00030302024201181663
Txn Date 20/11/2024
Amount 15700.00
Status Y



(Scan the QR Code for authentication)

Office of the Commissionerate of Labour
Licensing Officer

*** This is a computer generated certificate and it does not require a Signature/Seal.***
Terms & Conditions of this Certificate is enclosed as Annexure-I.

STOP CHILD LABOUR

ANNEXURE 9: WORKMEN COMPENSATION POLICY- CW02



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

UIN : IRDAN106P0006V01200001

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 AND BRAHMAPUTRA JV			Unique Invoice No.....	: 43345070
Address:	NEAR HIMALAYA OPTICALS, 4TH FL OOR, ROYALE ARCADE PART-II, B. BARUAH ROAD, ULUBARI, GUWAHATI I, KAMRUP, ASSAM GUWAHATI, ASSAM			Policy No.....	: 43345070
State Code/ Place of Supply:	18	Country Name:	India	Date of Issuance.....	: 18/11/2024
		GSTIN:	18AALAP2490B1ZJ	Policy effective from 0001 hrs 18/11/2024	
Phone Number:		C/N No:		Agent No. A5000039 A5A	To MidNight 17/11/2025
Aadhaar No.:				Agent Name: UPADHYAY, KAILASH	

	Taxable Value	CGST	SGST	IGST	CESS
Rate		9.00	9.00	0.00	0.00
Amount	154322.88	13889.06	13889.06	0.00	0.00
Total Tax		₹27778.12		Total Value	₹182101.0

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
	784125

Sr. No.	Category of Employee	Estimated Total Wages, Salaries and other e	Rate (%)	Premium without Service Tax (Rs.)
1	90 Skilled Worker	19440000.00	0.1849	35944.56
2	210 Unskilled Worker	30240000.00	0.1849	55913.76
3	1 Highly Technical Employee	1500000.00	0.1849	2773.50
4	5 Technical Staff Employee	4200000.00	0.1849	7765.80
5	32 Semi Technical Staff EMP	19200000.00	0.1849	35500.80
6	15 Clerical Staff	3600000.00	0.1849	6656.40

Signature Not Verified

Digitally signed by GUNASEKHAR BOGA
Date: 2024.11.18 21:57:28 IST
Reason: Valid Policy Copy
Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIN : IRDAN106P0006V01200001)

Attaching to and forming part of Policy Number 43345070

'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'

7	20 Lower Staff(Non Tech)	4800000.00	0.1849	8875.20
8	140 Skilled Worker	42000000.00	0.1849	77658.00
9	117 Semi Worker	21060000.00	0.1849	38939.94
10	320 Unskilled Worker	57600000.00	0.1849	106502.40
Overall Total Wages			203640000.00	

<p>Additional Clauses /Endorsements / Other details ,If any</p> <p>Nature of Work :Contrucon of ASSAM SKILL UNIVERSITY CAMPUS</p> <p>*</p> <p>Classification No : 46</p> <p>*</p> <p>Details of Workers Covered -</p> <p>*</p> <p>90 Skilled Worker - Wages of Rs 18,000/- each per month</p> <p>210 Unskilled Worker - Wages of Rs 12,000/- each per month</p> <p>1 Highly Technical Employee - Wages of Rs 125000/- each per month</p> <p>5 Technical Staff Employee - Wages of Rs 70,000/- each per</p> <p>32 Semi Technical Staff Employee - Wages of Rs 50,000/- each per month</p> <p>15 Clerical Staff- Wages of Rs 20,000/- each per month</p> <p>20 Lower Staff (Non Technical)- Wages of Rs 20,000/ each per month</p> <p>140 Skilled Worker- Wages of Rs 25,000/- each per month</p> <p>117 Semi Worker- Wages of Rs 15,000/- each per month</p> <p>320 Unskilled Worker - Wages of Rs 15,000/- each per month</p> <p>*</p> <p>Standard Terms, Conditions, Warrantees, Exclusions ::</p> <p>*</p> <p>Warranted that worker are properly trained and Adequate safety measures to be followed while working on site as per industry norms</p> <p>*</p> <p>Attendance Register should be maintained in the places of employment mentioned.</p> <p>*</p> <p>At any point of time the total number of workers as well as designation on site should not exceed the total number of persons and designations as declared under the policy.</p> <p>Furnish the total number of employees working on site at the time of accident. In case of total no. of workers as well as no. of persons in designation is exceeding, the same should</p>
--


Signature Not Verified

Digitally signed by GUNASEKHAR BOGA
Date: 2024.11.18 21:57:28 IST
Reason: Valid Policy Copy
Location: IFFCO Tokio General Insurance Company Ltd, India

Workmen's Compensation (UIN : IRDAN106P0006V01200001)
Attaching to and forming part of Policy Number 43345070

'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 10: WORKMEN COMPENSATION POLICY- CW04



ICICI Lombard
Nibhayee Vaade

EMPLOYEE'S COMPENSATION INSURANCE

Part 1 of the POLICY SCHEDULE

Policy No.	4010/368727318/00/000
Issued at:	GUWAHATI
Name of the Insured:	M/S BHASKAR BARUAH
Address of the Insured:	ZOO ROAD TINIALI, GUWAHATI, KAMRUP, ASSAM - 781001
Period of Insurance:	From: 16-Nov-2024 00:00 Hours To Midnight of 15-Apr-2025
Total Sum Insured:	₹ 70,00,000.00
UIN:	IRDAN115CP0017V02201920
Intermediary Details:	Intermediary Code: 2021477077873193 Intermediary Name: IDEAL INSURANCE BROKERS PVT LTD Intermediary Contact: 7679951199 Intermediary E-mail ID: bssinsurance2020@gmail.com

1. Premium Calculations:	
Premium	₹ 9,660.00
Stamp Duty	₹ 5.00
CGST	₹ 869.40
SGST	₹ 869.40
IGST	₹ 0.00
UGST	₹ 0.00
Total GST	₹ 1,739.00
Total Premium*	₹ 11,404.00

*Premium value mentioned above is inclusive of taxes applicable

2. No. of lives: 70

3. Details of employees to be insured:

Estimated Number of Employees	Occupation of Employees	Estimated Total Salaries Wages and other money earnings	Estimated Total Earnings for the Policy Duration	Place or Places of Employment	Industry Classification	Sub Industry Classification	Risk Classification Code
70	Skilled Workers	20000	7000000	LETTER OF ACCEPTANCE FOR CONTRACT PACKAGE NO CW 04 CONSTRUCTION OF REMAINING-BOUNDARY WALL OF ASU CAMPUS DARRANG 784125-ASSAM-DARRANG-784125	Builders - construction incl civil constructions	NA	46
Total: 70			Total : ₹ 7000000				

4. Scope of cover

Main Coverage:	EC Liability Cover Table 'A'
Extensions	

ICICI Lombard General Insurance Company Limited
 IRDA Reg. No. 115
 Mailing Address:
 601 & 602, 6th Floor, Interface 18,
 New Linking Road, Malad (West)
 Mumbai - 400054

CIN: LIT20MNS200PLC126498
 Registered Office Address:
 ICICI Lombard House, 414, Vicer
 Sevakar Marg, Near Sakchi Vihar,
 Kolkata (West Bengal) 700016

UIN : IRDAN115CP0017V02201920
 Toll free no : 1800 2880
 Alternate no : 86662 25660 (chargeable)
 E-mail : customersupport@icilombard.com
 Website : www.icilombard.com

EMPLOYEE'S COMPENSATION INSURANCE

ANNEXURE 11: HANDOVER OF CAMPS AND OFFICE OF CW01 TO CW02



Ref: AS/2024-25/14-11

Date: 12/12/2024.

To,

The PC
PCPL in JV with BIL
4th Floor Royal Arcade
B.Barooah Roah
Guwahati-781007

Subject: Hand over of temporary structure /camp to CW02

Sir,

With reference to the consideration of the mutual promises, covenants and contained herein and other good and valuable consideration between the CW02 & CW01, hereby we have confirmed that the site temporary structure /camp and 1 no. of tubewell is handover to CW02 since the work of CW01 has already completed. CW01 has no objection regarding the usage of the temporary structure /camp in future by CW02.

Thanking you

With regards

For & on behalf of
A.S Enterprise
CW01

CC: PTM /PMU ASUP
TL/ CS01



ANNEXURE 12. SOURCE APPROVAL FOR CONSTRUCTION MATERIALS
A. Work Permit for Earth- CW02



খনিজ সম্পদ
অধিদপ্তর

GOVERNMENT OF ASSAM
DIRECTORATE OF GEOLOGY AND MINING
BHU-BIGYAN BHAWAN
DAKHINGAON,KAHILIPARA,GUWAHATI-19
Email: dgmassam@gmail.com
dgm.assam@gov.in

No. GM/MM/86-B (40)/PL VI/4714-17 Dtd. Guwahati, the 25th November, 2023.
From :- Sri N. Anand, IFS,
Director,
Directorate of Geology & Mining, Assam,
Kahilipara, Guwahati-19.
To :- The Divisional Forest Officer,
North Kamrup Division, Rangia.
Sub :- Approval of Mining Plan alongwith progressive Mine Closure Plan
In respect of **Mowamari Ordinary Earth Mining Permit Area (C) (Area 3.23 hec.)** in **Darrang Dist.** of Assam State submitted under Rule 51 & 52 of Assam Minor Mineral Concession Rules, 2013.
Ref :-Your letter No B/ PMT/ MP/ 7803-06, dtd. 30.03.2023
Mining Plan No.4651
Sir/ Madam,

In exercise of the power conferred under Rule 51 & 52 of Assam Minor Mineral Concession Rules,2013, the aforesaid Mining Plan (including Progressive Mine Closure Plan) prepared by RQP Dr. Abhijit Bora in favour of consenting applicant/project proponent Sri Pabitra Deka is approved subject to the conditions below :

- 1) The Map of the proposed Ordinary Earth Permit Area is based on the lease map/sketch submitted by the lessee and is applicable from the date of approval.
- 2) It is to clarify that the approval of the aforesaid Mining Plan along with the Progressive Mine Closure Plan is in accordance with the powers conferred by sub-section (1) of section 15 and section 23C of the Mines & Minerals (Development & Regulation) Act,1957 (67 of 1957).
- 3) The GPS coordinates of the said Mining Plan are provided from the DFO office, North Kamrup Division after undertaking necessary verification based on which RQP prepared the plan with the said coordinates and the mining of earth shall be undertaken within the said geo coordinates only.
- 4) At any stage, if it is observed that the information furnished or data incorporated in the mining plan are incorrect or misrepresented, then the approval of the plan shall be revoked with immediate effect.
- 5) This approval is restricted in respect of the proposals contained therein within mining lease area and is applicable from the date of approval and maximum quantity of Ordinary Earth recommended for extraction is 64572 cubic metre for two years from the date of approval of EC to be used for filling & construction purposes subject to all statutory compliance and clearances for the mining activities to be carried out within the mining leasehold area.
- 6) Adequate number of check dams and retaining walls shall to made & maintained in good conditions to prevent any anticipated detrimental impact on water regime.
- 7) "Safety Berm" of adequate dimension shall be kept at all the places in the vicinity of statutory barrier, high bench/escarpment. It shall also be ensured that no excavation is to be made in the vicinity of any high-side wall/ escarpment. Stability of benches, escarpments shall be closely monitored. It is the responsibility of the Lessee to ensure the stability of all the

escarpments/side/benches, Lessee shall take all necessary steps time to time so as to ensure the stability of ground, which includes but not limited to reduction of the high side wall to safe and stable condition within first year itself & the DFO, North Kamrup Division shall supervise the same, so that land subsidence or erosion doesn't happen.

- 8) Sufficient safety Berm shall be maintained with respect to public road/village road.
- 9) Violations of any kind regarding the provisions of the Mining Plan including Progressive Mine Closure Plan will lead to the cancellation of the Mining Plan.
- 10) Environmental clearance must be obtained from the competent authority before execution except in certain cases mentioned in Appendix IX of MOEF & CC Notification S.O. 1224(E) dated 28th March, 2020.
- 11) Divisional Forest Officer, North Kamrup Division shall see to that the lease area does not fall under the National Park, Wild Life Sanctuary, Bird Sanctuary etc including Eco-sensitive zones and does not affect the animals, birds and biodiversity in anyway.
- 12) Cutting of trees and blasting is not allowed under this Mining Plan.
- 13) Semi-mechanized extraction shall only be done.
- 14) The Divisional Forest Officer, North Kamrup Division should ensure that no additional quantity is to be extracted.

Encl: Approved Mining Plan along with Progressive Mine Closure Plan.

Yours faithfully,

 23.11.23
Director,

Directorate of Geology & Mining, Assam.

No. GM/MM/86-B (40)/ Pt. V/

Dtd. Guwahati, the

November, 2023

Copy to :- 1) The Deputy Commissioner, Darrang -for information and necessary action.

2) Sri Pabitra Deka, Gerimari (Prafulla Nagar), P.O. Mangaldai, Dist. Darrang, Assam

3) Office copy.


Director,
Directorate of Geology & Mining, Assam

CTO for Stone crushing unit and BTC Forest details by CW02 vendor



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-2144/22-23/25

Dated Guwahati, the 15th June, 2024

CONSENT TO OPERATE

'CONSENT TO OPERATE' (CTO) under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 as amended and Rules framed thereunder, is granted to:

- i) Name of Industry : M/s Daorao Stone Crusher and Screening Plant
ii) Name of the Occupier / Applicant and Designation : Sri Deepak Mochahari, Proprietor.
iii) Address of Industry : Vill. Baghekhowa, P.O. Panery Hat, Dist-Udalguri, Assam-784524.
iv) Project cost : Rs. 92.50 (In Lakhs)
v) Type of Project/Category : Stone Crusher (Orange Category)
vi) Details of Crusher :

Sl No.	Number/Type of Crusher	Capacity
1	Primary Crusher	2 x 150 TPH
2	Secondary Crusher	3 x 100 TPH

- vii) Details of Raw Materials:

Sl No.	Name	Quantity
1	River Boulder and Gravel	22000 m ³ /Month

- viii) Details of Product :

Sl No.	Product	Quantity/ Capacity
1	Stone Chips	15000 m ³ /Year
2	Stone Dust	3000 m ³ /Year

- ix) D. G. Set : 1 x 625 KVA + 1 x 365 KVA

- ix) Source of Raw Material: Beltola SS Mahal

TERMS AND CONDITIONS:

- The Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide Application ID-2683703 and subject to addition of further or more conditions if so warranted by subsequent developments. The CTO will automatically become invalid if any change or alteration or deviation is made in actual practice.
- The CTO is valid for a period up to 31.03.2025.
- The CTO may be modified, suspended in whole or in part or withdrawn by the Board during its term for cause including, but not limited to the following:-
 - Violation of any Terms and Conditions of this CTO;
 - Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
 - If any genuine complaint received;

Contd....p/2



-2-

The unit shall obtain prior Consent to Establish from the Board, for any further expansion, alteration, modification or modernization of the project.

Proper housekeeping shall be maintained within unit premises. Burning of any wastes inside the premises is strictly prohibited.

6. The project proponent shall develop a greenbelt/plantation area with native trees covering atleast 33% of the total plot area.
7. The project authority shall install a Display Board as per the Boards notification no. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021 as (Appendix-A).
8. The unit shall install permanent boundary line/partition wall of minimum 10 ft height with tin/asbestos sheet or non-porous partition material with installation of permanent boundary posts.
9. 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 time to enter the unit premises 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 CTO.

Specific Conditions:

A. Air Aspect:-

1. The unit shall install and operate the crusher and screening machine, with proper enclosure and dust collection system.
2. The stone crushing unit shall implement the following air pollution control measures to control source as well as fugitive emission:
 - a. Dust containment cum suppression system at raw material feed Hopper, all material transfer and dropping points.
 - b. Construction of the metallic haul roads within the premises.
3. Quantitative standard for SPM:-
The suspended particulate matter measured between 3 to 10 meters from any process equipment of a stone-crushing unit shall not exceed $600\mu\text{g}/\text{m}^3$.
4. The unit shall comply with the ambient noise level standard, notified by MoEF & CC, GOI vide GSR 7 dated Dec.22, 1998 as mentioned herein under.

Limit in dB (A) Leq	
Day Time (6:00am-10:00pm)	Night Time (10:00pm-6:00am)
75	70

5. The unit shall comply with the Standards and Guidelines for control of Noise Pollution from Stationary Diesel Generator Set(s), notified by MoEF & CC, GOI vide GSR 7, dated Dec.22, 1998 (Appendix-B).
6. The Ambient Air Quality, within the Plant premises shall be maintained within the National Ambient Air Quality Standards, notified by MoEF & CC, vide G.S.R.826 (E) dtd.19.11.2009, especially with respect to PM_{10} & $\text{PM}_{2.5}$, 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.	Particulate Matter (size less than $10\mu\text{g}$) or $\text{PM}_{10} \mu\text{g}/\text{m}^3$	Annual* 24 hours**	60 100	60 100
2.	Particulate Matter (size less than $2.5\mu\text{g}$) or $\text{PM}_{2.5} \mu\text{g}/\text{m}^3$	Annual* 24 hours**	40 60	40 60

Handwritten signature and date: 12/12/21

Contd....p/3

B. Water aspect:-

1. Source of Water: Ground Water
2. Details of water consumption and effluent generation:-

SL NO.	NAME	QUANTITY
1	Raw water Consumption	5.5 KLD
2	Effluent Generation	0.5 KLD
3	Permission From CGWA	Not Obtained



3. Permission/Exemption of the Central Ground Water Authority shall be obtained for extraction of Ground Water, as applicable.
4. i) Storm water shall not be allowed to mix with any effluent and/or floor washings.
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) For storm water discharge, the unit shall comply with general effluent discharge parameters standard, notified by MoEF & CC, GOI vide G.S.R. 422 (E), dated 31.12.1993 (Appendix-C).
5. Rain water harvesting facility shall be installed and maintained.

C. Solid Waste Aspect:

1. Adequate facility shall be created for collection, storage, transportation, treatment and disposal of non-hazardous solid waste generated from the unit.
2. Adequate system shall 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 Solid Waste Management Rules, 2016.

D. Hazardous Waste Aspects:

1. Authorization under Hazardous & Other Wastes (Management & Trans-boundary Movement) Rules, 2016 shall be obtained from the Board.
2. The project authorities shall comply with the provisions of the said Rules.
3. Adequate facility shall be provided for collection and storage of used/spent oil, which shall be sent to registered recyclers for recycling.
4. The unit shall dispose of any other Hazardous Waste generated by the unit as per the provisions of the Rules.
5. The unit shall identify and quantify all streams of Hazardous Waste generation as per Schedule-I and maintain proper record in Form-III of the said Rules.
6. The unit should submit the annual return in Form-IV under the said rules on or before 30th June every year.

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

(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/TEZ/T-2144/22-23/25-A

Dated Guwahati, the 15th June, 2024

Copy to:

- ✓ M/s Daorao Stone Crusher and Screening Plant, Vill. Baghekhawa, P.O. Panery Hat, Dist-Udalguri, Assam-784524 for information and compliance of condition.

(Shantanu K. Dutta)
Member Secretary

I am now accessing as a : Third Schedule Contractor Citizen

GOVERNMENT OF ASSAM ()
**ENVIRONMENT & FOREST
DEPARTMENT ()**
ONLINE REVENUE COLLECTION SYSTEM ()
WWW.ASSAMFORESTONLINE.IN (HTTPS://
ASSAMFORESTONLINE.IN/)

User Type :Third Schedule Contractor User ID:6496651714

Name :PAWAN AND BRAHMAPUTRA JV
Email : pcpl.bil@gmail.com

PAYMENT RECEIPT

USER DETAILS

Name:	PAWAN AND BRAHMAPUTRA JV (6496651714)
Phone No:	9935235111
Email:	pcpl.bil@gmail.com

Project Details


Project Name:	Detailed Design and Construction of ASU campus and facilities (Contact no. CW02/2020-21)		
Project Number:	TPA/P0159		

Payment Details

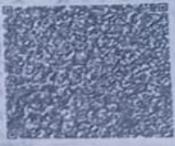
Type:	PROCESSINGFEE	Amount:	2500.00
Gateway:	PAYTM	Transaction No:	3378075880105994
Transaction Date:	20-01-2025	Transaction Date:	18:29:14 pm



Forest royalty clearance certificate- CW03



GOVERNMENT OF ASSAM
Department Of Environment & Forest
FRCC (Forest Royalty Clearance Certificate)
OFFICE OF THE DIVISIONAL FOREST OFFICER, KAMRUP EAST DIVISION
For Third Schedule under Assam Mooka Mineral Concession (Amendment) Rules, 2021



Memo Date : 16-11-2024

Memo No :
FRCC No : 3133588320

To, _____
The _____

Subject: _____

Ref: _____ Your Letter No. _____


Name and type of Project	CW-03 UPGRADE OF ASSAM SKILL UNIVERSITY INTERIM CAMPUS, AGENCY SPONSORED		
Project Value	33447920.00	Category of Construction Under Third Schedule	Assam Type Building (Single Floor) Royalty Rate Applicable: 1.00%
Project Location:	(T) GUWAHATI CAMPUS, SANKARPUR, BIRUBARI, GUWAHATI-781016		
Name and type of Subproject	Build/Update Assam Type Building	Subproject Value	33002009.00
Name and type of Work	ASDM/ASUP/CW03/93/2023/756 2023-12-06	Work Value	33002009.00
Name of Department/ Agency executing the Construction	Assam Skill University Project	Bill No and Date Bill Amount (Rs.)	- 33002009.00
Contractor Details	MECHFAB ENGINEERING INDUSTRIES PVT LTD Id: 5858608136 Ph #: 9706099999	Applicable Royalty(Rs.)	330021.00


Payment Transaction Details			
1	A01+TPAB2536101343523206	21/11/2024	330021.00
Total Paid Amount in Rs.:		330,021.00	
Total Paid Amount in Words:		Three Lakh Thirty Thousands Twenty One Rupees	

Royalty Summary Details		
330021	330021	0

This FRCC is valid only for the specified Bill raised by the Contractor/Agency.

(Issuing Authority)


Divisional Forest Officer,
Ashok Kumar Dev Choudhury,
Kamrup East Forest Division



C61566M1C0538B78/1732624565

26/11/2024 06:06:06

ANNEXURE-13: CONSENT TO OPERATE (CTO) FROM POLLUTION CONTROL BOARD, ASSAM – 2 batching plant



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



No. PCBA/TEZ/T-430/2024-25/22

Dated Guwahati, the 18th April 2024

Consolidated Consent and Authorization(CCA)

✓ To,

M/s Pawan Communications Pvt. Ltd (JR)
 Unit –II (Assam Skill University Project)
 Dist: Darrang, Pin- 781007, Assam

Sub: Consolidated Consent and Authorization (CCA) granted under provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, and the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 framed under the Environment (Protection) Act, 1986.

'CONSENT TO OPERATE'

'CONSENT TO OPERATE' (CTO), 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 the unit : M/s Pawan Communications Pvt. Ltd (JR)
Unit –II (Assam Skill University Project)
- ii) Name of the Occupier / Applicant and Designation : Mahesh Chachan, Operation Director
- iii) Address of the unit : Vill: Bidyanagar, Mangaldoi,
P.O: Mangaldoi, Dist: Darrang,
Pin- 781007, Assam
- iv) Detail of the project : Concrete Batching Plant
(Orange Category)
- v) Cost of the project : Rs. 94.6 Lakhs
- vi) Details of Raw Materials:

Sl No.	Raw Material	Quantity/ Capacity
1	Sand	85 m ³ /day
2	Cement	1758 m ³ /day
3	Aggregates	154 m ³ /day

- vii) Details of Products:

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

- viii) D.G Sets : 1x 125 KVA + 1x 62.5 KVA

67



TERMS AND CONDITIONS

The Consent to Operate (CTO) has been accorded based on the particulars furnished by the applicant vide Application ID 2942591 and subject to addition of further more conditions if so warranted by subsequent developments. The CTO will automatically become invalid if there is any changes, modification, alteration, expansion or deviation made in actual practice.

1. The CTO is valid till 31.03.2025.
2. The CTO may be modified, suspended in whole or in part or withdrawn by the Board during its term for cause including, but not limited to the following:-
 - a) Violation of any Terms and Conditions of this CTO;
 - b) Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
 - c) If any genuine complaint is received.
3. The unit shall obtain prior 'Consent to Establish' from the Board for any further expansion, alteration, modification, modernization of the project.
4. The project authority shall install a Display Board as per the Board's notification no.PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021. (**Appendix-A**).
5. The project proponent shall develop a greenbelt/plantation area with native trees covering at least 33% of the total plot area.
6. 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 time to enter the unit premises 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.
7. Dust suppression measures including water sprinkling shall be provided at all the material handling points to control fugitive emission.
8. The unit shall apply for renewal of this CTO before expiry. The Board has decided to renew the CTO for validity of five (5) years after receiving due fees for the entire period.
9. The unit shall install a minimum of 10 ft height permanent boundary line/partition wall with Tin/Asbestos sheet or other non porous partition materials with installation of permanent boundary posts.
10. The Unit shall abide by all the conditions mentioned in the Affidavit submitted by itself vide Affidavit dtd. (enclosed herewith). Any violation detected in terms of non-compliance and submission of wrong information in the Affidavit shall lead to Closure of the Unit, Withdrawal of CTO and any other legal action, as deemed fit.

SPECIFIC CONDITIONS:

A. Air / Emission Aspect:

1. The following pollution control measures shall be implemented by the project authority to control source as well as fugitive emission -
 - a) Bag filters shall be installed at raw material feeding hoppers, material transfer and dropping points.
 - b) Construction of metalled roads inside the factory premises.
 - c) Regular cleaning and water sprinkling at the haul roads within the premises.
2. The unit shall comply with the Standards and Guidelines for control of Noise Pollution from Stationary Diesel Generator Sets, notified by MoEF & CC, GOI vide **GSR 7, dtd. Dec. 22, 1998 (Appendix – B)**.

Contd...p/3

ANNEXURE-14: GROUNDWATER ABSTRACTION EXEMPTION -CW04



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

(भूजल निकासी हेतु छूट प्रमाण पत्र) Certificate of Exemption for Ground Water Withdrawal

Project Name:	Assam Skill University (Constructed By M/s Bhaskar Baruah)		
Project Address:	Bidya Nagar, Mangaldoi		
Town:	Mangaldoi (mb)	Blook:	Paohim-mangaldai
District:	Darrang	State:	Assam
Communication Address:	Bidya Nagar, Mangaldoi, Paohim-mangaldai, Darrang, Assam - 781003		
Address of CGWA Regional Office :	Central Ground Water Board North Eastern Region, Betkuohi, Opposite Isbt, Nh-37, Guwahati,, Kamrup Metro, Assam - 781035		

1. Application No.:	21-4/3815/AS/INF/2024	2. Category: (GWRE 2023)	Safe
3. Project Status:	New Project	4. Valid From	05/10/2024
5. Valid up to	Till adherence to provision(s) under which this exemption has been obtained (subject to compliance to related conditions) or till any further orders issued by this authority, whichever is earlier.		
6. Ground Water Abstraction Permitted:			
Fresh Water		Saline Water	Dewatering
m ³ /day	m ³ /year	m ³ /day	m ³ /year
5.00			

7. Exemption under Para 1.0 (v) of guidelines
<p>This exemption letter is being issued under relevant provision(s) of extant guidelines.</p> <p>The firm shall install digital water flow meter on all common outlet points and maintain the logbook.</p> <p>This certificate is system generated and based on information provided by the applicant. CGWA has not verified the claim made by applicant. Any false information furnished/ violation by the applicant, shall invite legal action against him/her as per S.O. 3059(E) dated 24/09/2020.</p> <p>If, at any stage, it is established that this exemption letter has been obtained on the basis of false/ false document(s), the exemption letter shall be deemed cancelled and extant penal provisions shall be applied on the firm.</p> <p>यह इश्टेम्पन (छूट) का प्रमाण पत्र निम्नलिखित के प्रावधानों के तहत जारी किया जा रहा है।</p> <p>प्रार्थी समस्त कॉमन माइनिंग बिंदुओं पर डिजिटल जल प्रवाह गीटर स्थापित करेंगे और लॉगबुक बनाए रखेंगे।</p> <p>यह प्रमाण पत्र सिस्टम जनरेट है और ऑडिटिंग द्वारा प्रदान की गई जानकारी पर आधारित है। CGWA ने ऑडिटिंग द्वारा यह जांच का सत्यापन नहीं किया है। ऑडिटिंग द्वारा दी गई कोई भी गलत सूचना/उल्लंघन, एसओ 3289(E) दिनांक 24/09/2020 के अनुसार उसके खिलाफ कानूनी कार्रवाई को आमंत्रित करेगा।</p> <p>यदि, किसी भी स्तर पर यह स्थापित हो जाता है कि यह इश्टेम्पन (छूट) का प्रमाण पत्र गलत/नकली दस्तावेज के आधार पर प्राप्त किया गया है, तो इश्टेम्पन (छूट) का निरस्त माना जाएगा और प्रार्थी पर मौजूदा दंडात्मक प्रावधान लागू किए जाएंगे।</p>

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

Term and conditions:

- All disputes are subject to Delhi Jurisdiction.
- Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi


ANNEXURE-15: COMPLETION CERTIFICATE OF CW03-INTERIM CAMPUS

No. ASDM/ASUP/51/2022/678


Dtd.14.10.2024


COMPLETION CERTIFICATE


This is to certify that Mech fab Engineering Industries Pvt.Ltd. Contractor is a registered reputed contractor and he executed the below mentioned work with 100% completion for the amount of Rs.3,94,68,547.00 (Rupees Three Crore Ninty Four Lakh Sixty Eight thousand Five hundred Fourty Seven) only.

Sl. No.	Particulars	Name of work: Upgrading of ASU interim Campus Package No. CW/03/2023-24
1	A.A.No. & Date	A/A No-AA/ETC_2023-23(1)_126 dt.07.07.2022
2.	Formal Work Order No. & Date	No. ASDM/ASUP/CW-03/93/2023/836 Date: 8 th November 2023
3.	Date of commencement	15.12.2023 
4.	Date of completion	13.09.2024
5.	Tender Value	Rs.2,68,98,221.00 (Original) Rs.4,09,47,298.00 (Revised)
6.	Bill value	Rs. 3,94,68,547.00(Excluding provisional sum)
7.	Name and address of the authority under whom the work executed	Assam Skill University, DECT Bldg. 3 rd Floor, Rehabari.
8.	Quality of work (Indicate grading)	Satisfactory
9.	Comment of the capabilities of the Contractor: a) Technical proficiency b) Financial sundress c) Mobilization of adequate T & P d) Mobilization of Man power e) Overall physical progress f) General behavior	Very good Very good Very good 100% Satisfactory Satisfactory

N.B. The bill value for Rs. 3,94,68547.00 is found less than Revised tender value for Rs. 4,09,47,298.00 due to less quantity of work in some items of work as per site condition.


Jay kr. Nath
Site Engineer


Ellore Kalita
Civil Engineer, ASUP


Paresh Nath
P.T.C ASUP


O.S.U.
Assam Skill University,

A. GRM Meeting

[illegible]

B. Consultation with local people

Date: 24. 09. 2024

Venue: ASU Site

Time: 11 : am - 12 pm .

Stakeholder type: *Consultation with contractors & local people for environment issues.*

Sl. No.	Name	Organization/ Designation	Gender	Signature	Ph/mail
1	Jonali Dolai		F	Jonali Dolai	
2	Dharitiji Dolai		F	Dharitiji Dolai	
3	Bamki		F	Chameli Dori	
4	Babita Choudhary		F	SAI	
5	B. Nisanth Rao		M	Ruachef	
6	Joyanta Bhargava		M	Ajanta	
7	LINGARAJ PANDAY	Social Safety EXPERT CS ST	M	Vijw	99372357
8	Sanghita Dutta	Env. Specialist- PMU, ASUP	F	S. Dutta	8876396955
9	Syeda Mehzebunn Rahman	Gender and IPP Specialist	F	S Rahman	9864876272
10					
11					
12					
13					
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15					
16					
17					
18					

C. Consultation with all interested parties by PMU, PMC and Environment consultant-ADB at ASU site Mangaldai



Stakeholder consultation

Date: 17. 01. 2025

Venue: ASU Site, Mangaldai

SL NO	NAME	ORGANIZATION & DESIGNATION	GENDER	SIGNATURE	PH/MAIL
1	Bhupen Bhagabati	P.M. for CW-04	M	[Signature]	76368 73750
2	B. Nisanth Rao	HSE Manager CW-02	M	[Signature]	
3	Nishant Raj Bgelain	Safety Engineer CW-02	M	[Signature]	
4	Nagim Hussain	Contractor	M.	[Signature]	
5	Abbash Ali	Contractor (work)	M.	[Signature]	
6	201220 CWOFF	"	M		
7	Abahoi	"	M		
8	Ro8394 AN	"	M		
9	Ankur Bhuyan	ASU (Electrical Engg)	M	[Signature]	
10	Sanghita Dutta	Env. Sp. PMU, ASUP	F	[Signature]	
11	Sureshwar Kumar	ADB Env Specialist (Consultant)	M	[Signature]	
12	Vinayak Gupta	CSO1	M	[Signature]	
13	Yashdeep	ISOP	M	[Signature]	
14	Jayanti Chandra	TL-CSO2	M	[Signature]	
15					
16					
17					
18					

D. Consultation with all interested parties by PMU, PMC and Environment consultant-ADB and ASU staff- Interim campus.



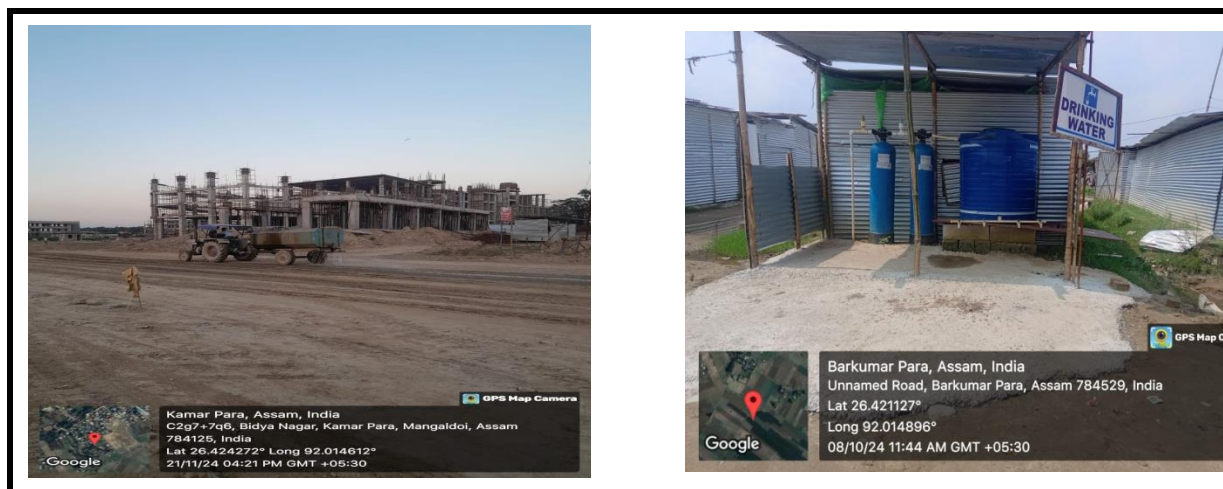
Stakeholder consultation

Date: 18-01-2025

Venue: Interim Campus, ASU, Rehabori

SL NO	NAME	ORGANIZATION & DESIGNATION	GENDER	SIGNATURE	PH/MAIL
1	DR. JAYADISH NATH	DR. RAGHUPATHY ASU	M		9856060550 drjayadish@asu.ac.in
2	BIPAN SARMA	Senior Instructor (IT) Mony, SHIN University	M		9454949491 bipansarma@asu.ac.in
3	ARUP SARKAR	JUNIOR INSTRUCTOR ASU	M		995736196 arup.sarkar@asu.ac.in
4	BARSHNEYA TALUKDAR	JUNIOR INSTRUCTOR ASU	F		9707832280 barshneya.talukdar@asu.ac.in
5	Sanjibita Datta	Env. Sp. PMU, ASUP	F		9856060550 sanjibita.datta@asu.ac.in
6	Kishor Jyoti Deka	Senior Instructor, ASU	M		9707658070 kishordeka@asu.ac.in
7	Debmishi Hazarika	Jr. Asst.	M		8658358909
8	Sandeep Kumar	Assistant Instructor	F		9864449597
9	Shreevishwanath	A.D.R. Engineer Consultant	M		9811224458
10	Vinayak Gupta	CSO1-ENR	M		9502552320
11					
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ANNEXURE 17. ENVIRONMENTAL, HEALTH AND SAFETY PRACTICE AT CONSTRUCTION SITE- CW02& CW04



Water Sprinkling at Site



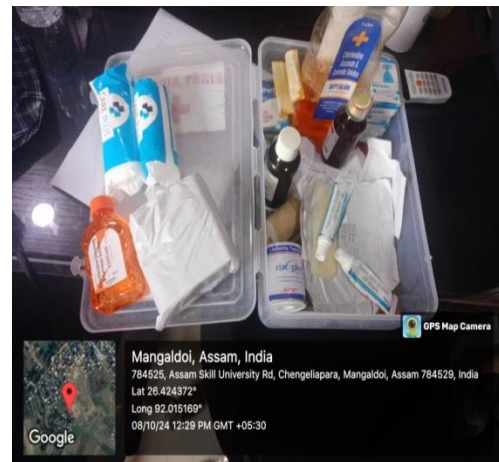
RO Treated Drinking Water



Fire extinguishers and rubber mat provided near DG



DG stack height with available



Ambient Air Quality Monitoring at ASU campus



First Aid Provision at site



Use of PPEs by Worker



Toolbox Conducted by HSE manager



HSE COMMITTEE

Commercial Cylinder used for cooking



WASTE BINS AT SITE



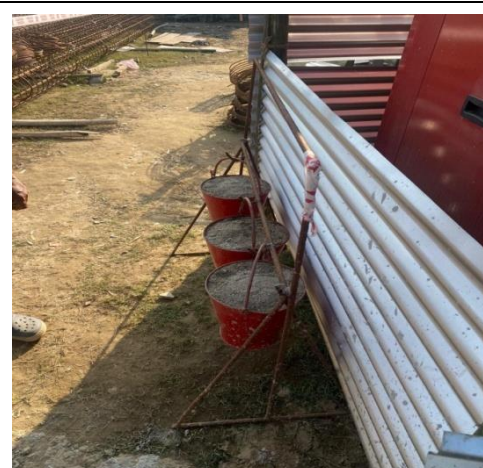
Consent management information



Refuelling of diesel by IOCL bulker at site storage (1000 Ltr)



The green-net provided at working building area to minimize dust emission



Fire bucket provided at DG area



Camp bedding arrangement by CW04



PPE compliances at site



TBT at Site



Trees are protected



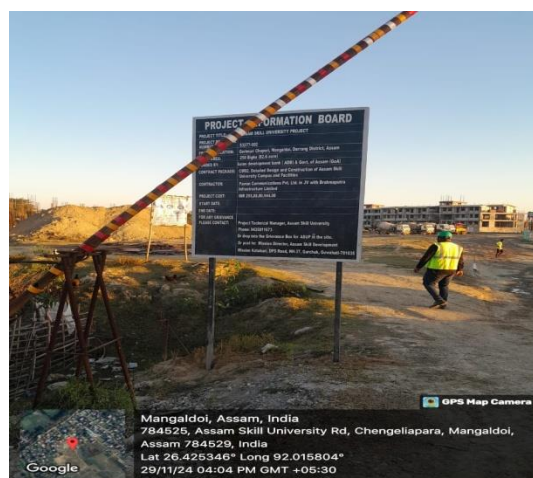
Ambulance at construction site



Housekeeping at site



Waste Management: Blue and Green waste bin provided at site.



Traffic management and parking of vehicles

ANNEXURE-18: ARRANGEMENTS AT INTERIM CAMPUS DURING OPERATION



Project Information Board



Toilet for workers



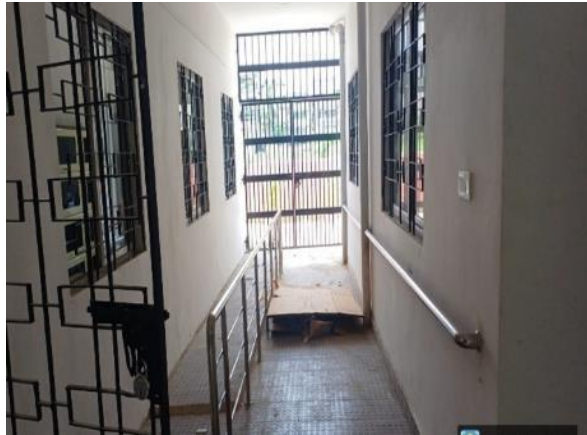
Fire buckets and rubber mats placed near panels



Dustbins placed in the campus



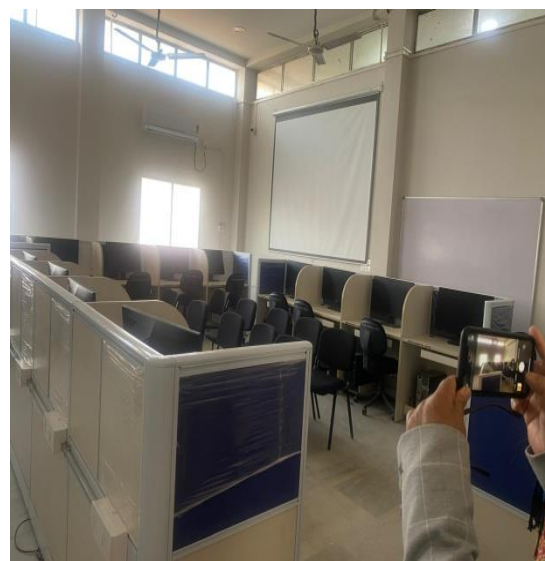
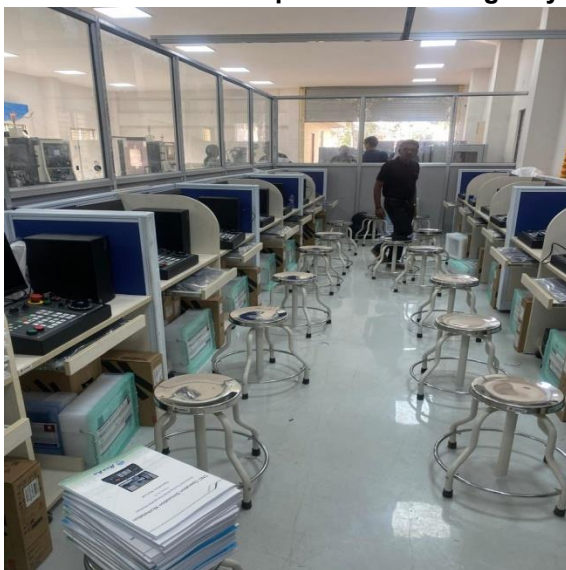
Views of the campus



Ramp Access provided in the Interim Campus



Provision of Fire points and Emergency contact number at ASU Interim campus



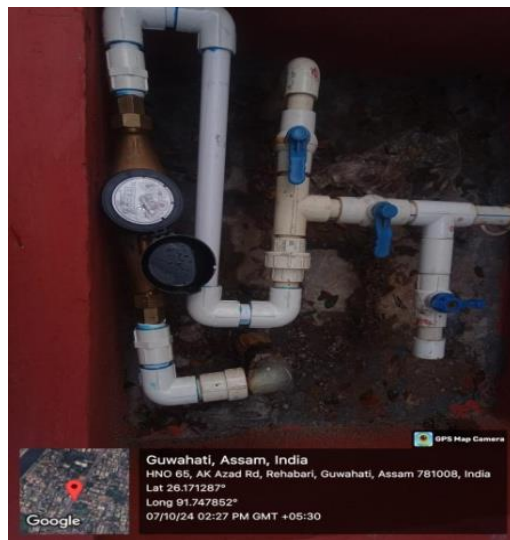
Computer lab set up at ASU interim campus



CNC machine assembly and configuration in progress



Interim Campus corridor status



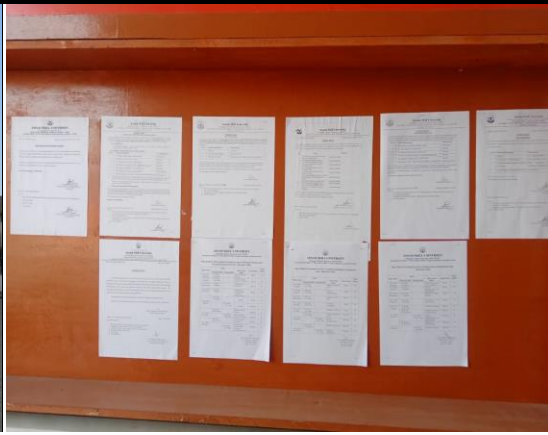
flowmeter installed at site



Ground staff awareness for ERP



BEE certified appliances use in campus



Tree plantation near boundary wall of interim Notice board provided at Interim Campus camps

ANNEXURE 19 : ENVIRONMENTAL SAFEGUARD MONITORING AND REPORTING SYSTEM

SR NO	COMPONENT	REMARK																																																																																	
1.	WORK PERMITS AND INSPECTION CHECKLISTS IMPLEMENTATION	<p style="text-align: right;">PAWAN AND BRAHMAPUTRA (JV)</p> <p style="text-align: center;">HEIGHT WORK PERMIT</p> <p>Name of the contractor: Nazamul Name of the Engineer/Supervisor: Fahad Hossain Place of work: Faculty Block Details of job: Wall plastering (Height work) Permit valid from: Date 17/11/25 Time 08:00 AM to 09:10 AM Date 18/11/25 Time 09:00 AM to 09:10 AM</p> <p>Declaration of contractor Accept the responsibility for ensuring that all men under my control shall observe the statutory safety requirements and follow the safety instruction of the plant.</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No</th><th rowspan="2">Description</th><th colspan="3">Observation</th><th rowspan="2">Remarks</th></tr> <tr> <th>OK</th><th>NOT OK</th><th>NA</th></tr> </thead> <tbody> <tr> <td>1</td><td>Tool box talk conducted</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>2</td><td>Adequate PPEs provided to all workmen</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>3</td><td>Does adequate fixed and rigid anchorage support for fixing the Full Body Harness provided.</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>4</td><td>Has Life line provided for Full Body Harness.</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>5</td><td>Suitable platform / Scaffold is available with safe hand rail. Sufficient space for work.</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>6</td><td>Has Doctor examined the worker- if he suffers from giddiness or other physical / mental problem while working at height.</td><td>Yes</td><td></td><td></td><td></td></tr> <tr> <td>7</td><td>Proper lighting provided</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>8</td><td>All the electrical equipment earthed properly and routed through 30 mA ELCB</td><td>OK</td><td></td><td></td><td></td></tr> <tr> <td>9</td><td>Are required cautionary signage displayed at proper location?</td><td>Yes</td><td></td><td></td><td></td></tr> <tr> <td>10</td><td>Firefighting arrangements available at the site</td><td>Yes</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Designation</th><th>Name</th><th>Signature</th></tr> </thead> <tbody> <tr> <td>Site Engineer</td><td>Mofiz Fahad Hossain</td><td>Mofiz Hossain</td></tr> <tr> <td>Safety Officer</td><td>Jayraman Brumgla</td><td>Jayraman</td></tr> <tr> <td>Site Engineer - (PMC)</td><td>Chirajal Kalyan</td><td>Chirajal</td></tr> </tbody> </table> <p style="text-align: right;">Site Engineer Assam Skill University Project</p> <p style="text-align: right;">HSE DEPARTMENT</p>	S. No	Description	Observation			Remarks	OK	NOT OK	NA	1	Tool box talk conducted	OK				2	Adequate PPEs provided to all workmen	OK				3	Does adequate fixed and rigid anchorage support for fixing the Full Body Harness provided.	OK				4	Has Life line provided for Full Body Harness.	OK				5	Suitable platform / Scaffold is available with safe hand rail. Sufficient space for work.	OK				6	Has Doctor examined the worker- if he suffers from giddiness or other physical / mental problem while working at height.	Yes				7	Proper lighting provided	OK				8	All the electrical equipment earthed properly and routed through 30 mA ELCB	OK				9	Are required cautionary signage displayed at proper location?	Yes				10	Firefighting arrangements available at the site	Yes				Designation	Name	Signature	Site Engineer	Mofiz Fahad Hossain	Mofiz Hossain	Safety Officer	Jayraman Brumgla	Jayraman	Site Engineer - (PMC)	Chirajal Kalyan	Chirajal
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Site Engineer - (PMC)	Chirajal Kalyan	Chirajal																																																																																	

Admin building Jan: 06/01/2021

ANNEXURE 33 – CHECKLIST MACHINE GUARDING

REQUIREMENTS FOR ALL SAFEGUARDS

S.NO.	DESCRIPTION	YES (COMMENT)	NO (COMMENT)
1	Do the safeguards provided meet the minimum legal requirements?	Yes	
2	Do the safeguards prevent workers' hands, arms, and other body parts for making contact with dangerous moving parts?	Yes	
3	Are the safeguards firmly secured and not easily removable?	Yes	
4	Do the safeguards ensure that no object will fall into the moving parts?	Yes	
5	Do the safeguards permit safe, comfortable, relatively easy operation of the machine?	Yes	
6	Can the machine be oiled without removing safeguard?	Yes	
7	Is there a system for shutting down the machinery before safeguards are removed?	Yes	
8	Can the existing safeguards be improved?	Yes	

MECHANICAL HAZARDS

S.NO.	DESCRIPTION	YES (COMMENT)	NO (COMMENT)
1	Is there a point-of-operation safeguard provided for the machine?	Yes	
2	Does it keep the operator's hands, finger body out of the danger area?	Yes	
3	Is there evidence that the safeguards have been tampered with or removed?		No
4	Could you suggest a more practical, effective safeguard?	Yes	
5	Could changes be made on the machine to eliminate the point-of operation hazard entirely?	Yes	

PAWAN AND BRAHMAPUTRA JV
Assam Skill University Project

INSPECTION CHECKLIST FOR JCB/LOADER

Frequency of checks : Every time before use or once in a day

Date of inspection: 24/01/2021

Sl. No.	Check Point	Yes	No	Remarks
1	Is the starting smooth?	✓		
2	Is there any oil / water / diesel leakage?		✓	
3	Are the hydraulic lines in proper working condition?	✓		
4	Are the hydraulic control levers / valves working properly?	✓		
5	Are the direction indicators in working condition?	✓		
6	Are the brakes / parking brakes effective?	✓		
7	Is the reverse horn in working condition?	✓		
8	Is there any leakage in the hydraulic hoses?		✓	
9	Is shoring/benching/sloping required? If so, is it in place?		✓	Not Required
10	Are the operating handles fixed properly?	✓		
11	Is the steering / acceleration smooth?	✓		

Signature of Site engineer/safety officer/Gangman :
Name : B. Disha/hao



Signature

Signature
Safety Engineer
Assam Skill University Project

2

INCIDENT & ACCIDENT REPORTING

ACCIDENT/INCIDENT REPORT

REF: PCPL/BIL/ASDM/EHSP/F/005

(To be submitted by Contractor after every Incident / Accident within 24 hours to ASDM Officials)

REPORT NO.: 02 DATE: 15/12/2024PROJECT SITE: Assam Skill University projectNAME OF WORK: ConstructionContractor's Name: Pawan & Bramhaputra (P) Contractor's Job Engineer (Name): _____

Non-disabling injury (Non-LTA)	Hospitalized but resumed duty before end of 48hrs.	
Disabling injury (other LTA)	Hospitalized & failed to resume duty within 48 hrs.	
Fatal (LTA)	Death / Expiry	
First Aid case (non LTA)	Resume duty after first aid	

Name of injured: No Injured Father's name of victim: _____Contractor's Name: KL Handware (Supplier) (Vehicle no: AS25FC 3501)

Gate Pass No.: _____ Age: _____ Yrs. Victim's medical fitness exam. (Pre-empl.) Date: _____

DATE & TIME OF ACCIDENT / INCIDENT
: 15/12/2024 8:05 AM (Fire)Name of (1) Nishant Koo (2) Jeyanta Bhangalain (3) Nishant Raj Bhangalain Witness

PROFESSION OF VICTIM

Bar bender	Carpenter	Meson
Fitter	Helper	Gas cutter
Grinder	Welder	Electrician
Driver	Rigger	M/c operator
Engineer	Manager	Other/specify

ACCIDENT/INCIDENT REPORT

REF: PCPL/BIL/ASDM/EHSP/F/005

(To be submitted by Contractor after every Incident / Accident within 24 hours to ASDM Officials)

REPORT NO.: 1 DATE: 10/12/2024PROJECT SITE: Assam Skill University projectNAME OF WORK: ConstructionContractor's Name: Pawan & Bramhaputra (P) Contractor's Job Engineer (Name): Bhaskar (HSE)

Non-disabling injury (Non-LTA)	Hospitalized but resumed duty before end of 48hrs.	
Disabling injury (other LTA)	Hospitalized & failed to resume duty within 48 hrs.	
Fatal (LTA)	Death / Expiry	
First Aid case (non LTA)	Resume duty after first aid	

Name of injured: Nisarul Hogue Father's name of victim: Hussain AliContractor's Name: Virek Chaudhary (Supplier) (Vehicle no: AS 25 FC 5209)Gate Pass No.: _____ Age: 39 Yrs. Victim's medical fitness exam. (Pre-empl.) Date: _____DATE & TIME OF ACCIDENT / INCIDENT
: 10/12/2024 (7:00 PM)Name of (1) Nisanta Hogue (2) Saju B. Barua (3) Nasim Witness

PROFESSION OF VICTIM

Bar bender	Carpenter	Meson
Fitter	Helper	Gas cutter
Grinder	Welder	Electrician
Driver	<input checked="" type="checkbox"/> Rigger	M/c operator
Engineer	Manager	Other/specify

The reporting period 2 no of vehicle incident reported by civil contractor

MONTHLY AUDIT SCORE REPORT

SUMMARY SHEET					
Contract No. C602		Contractor C602			
For the month of : Nov 2024		Ref:			
Audit Dates: From: To					
Section	% Score Attained		Code of criticality		
	By Contractors	By PMU/PMC/DSC	By Contractor	By PMU/PMC/DSC	
1 SHE Administration	100.00	90.00			
2 SHE Training & SHE communication	88.80	85.00			
3 SHE Inspection, Risk,	100.00	90.00			
4 Hazard Identification, Risk Assessment and Emergency Preparedness	94.7	85.00			
5 Reporting of Accidents and Dangerous Occurrence and Investigation	96.00	90.00			
6 Housekeeping	95.70	80.00			
7 Working at Height	85.30	60.00			
8 Lifting Appliances and Gears	76.70	50.00			
9 Construction Machinery / Hand tools and power tools	93.30	80.00			
10 Site Electricity	61.80	50.00			
11 Fire Prevention	100.00	80.00			
12 Welding and Cutting	88.80	70.00			
13 Excavations and Trenching	93.30	90.00			
14 T-1 Operations and work in confined Spaces					
15 Traffic Management	83.60	75.00			
16 Personal Protection Equipment	100.00	75.00			
17 Industrial Health and Hygiene (Lighting and Ventilation)	98.30	75.00			
18 Welfare Amenities	100.00	80.00			
19 Environmental Management	100.00	90.00			
20 Batching Plant and Casting Yard	84.90	75.00			
	B	C			
Overall Audit Percentage	91.64	77.36			
Team Head / Contractor Name : Arindam Bhattacharya	Designation : Project Manager	Signature : [Signature]	Date : 12/10/2024		
Team Head / Contractor Name : B. N. Maiti	Designation : S.H.E. Manager	Signature : [Signature]	Date : 12/10/2024		
Team Head / PMU Name : S. Dutt	Designation : Env. Specialist, PMU	Signature : [Signature]	Date : 12/12/24		
Team Head / PMC Name : V.K. Gupta	Designation : Env. Supt.	Signature : [Signature]	Date : 13/12/2024		

1. Sr. No. 15, 16, 17, 20 need attention within 7 days

2. Sr. No. 7, 8, 10, need attention within 48 hrs.

3. Batching Plant area need to clean on regular basis.

4. Admission drum need to cover.

5. Driven specialized training by suppliers.

6. Machinery checklist must followed.

7. Contention 2. NO smoking zone / NO tobacco zone.

8. Steel storage need to remove.

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SUMMARY SHEET					
Contract No. CW02		Contractor CW02			
For the month of : December 2024		Ref:			
Audit Dates: From: 28.12.2024 To: 28.12.2024					
Section	% Score Attained		Code of criticality		
	By Contractors	By PMU/PMC/DSC	By Contractor	By PMU/PMC/DSC	
1 SHE Administration	100.00	52.87	100.00	90.00	
2 SHE Training & SHE communication	88.80	68.75	88.80	85.00	
3 SHE Inspection, Risk,	100.00	29.27	100.00	30.00	
4 Hazard Identification, Risk Assessment and Emergency Preparedness	94.7	62.77	94.7	85.00	
5 Reporting of Accidents and Dangerous Occurrence and Investigation	96.00	64.00	96.00	90.00	
6 Housekeeping	95.70	27.78	45.70	75.00	
7 Working at Height	97.60	31.40	97.60	40.00	
8 Lifting Appliances and Gears	77.80	25.00	77.80	35.00	
9 Construction Machinery / Hand tools and power tools	93.30	48.33	93.30	50.00	
10 Site Electricity	89.80	27.28	89.80	60.00	
11 Fire Prevention	100.00	65.20	100.00	90.00	
12 Welding and Cutting	88.80	37.80	88.80	50.00	
13 Excavations and Trenching	NA	1			
14 Operations and work in confined Spaces	NA				
15 Traffic Management	96.60	25.00	96.60	90.00	
16 Personal Protection Equipment	100.00	60.87	100.00	60.00	
17 Industrial Health and Hygiene (Lighting and Ventilation)	98.30	58.57	98.30	70.00	
18 Welfare Amenities	100.00	50.00	100.00	60.00	
19 Environmental Management	100.00	14.22	100.00	40.00	
20 Batching Plant and Casting Yard	97.40	34.29	97.40	75.00	
	B	C			
Overall Audit Percentage	96.12	41.87	96.12	65.27	
Team Head / Contractor Name : ARINDAM BHATTACHARYA	Designation : Project Manager	Signature : [Signature]	Date : 04/10/2025		
Team Head / Contractor Name : B. N. Maiti	Designation : S.H.E. Manager	Signature : [Signature]	Date : 04/10/2025		
Team Head / PMU Name : Chellajal Kalay	Designation : Env. Specialist, PMU	Signature : [Signature]	Date : 04/10/2025		
Team Head / PMC Name : Chellajal Kalay	Designation : Env. Supt.	Signature : [Signature]	Date : 04/10/2025		

1. Point no 10 need regular monitoring and up date checklist.

2. Point no 05 need regular monitoring and up date checklist.

3. Point no 16 need regular monitoring and implementation.

4. Point no 3 need record.

04/10/2025
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**ENVIRONMENTAL
SAFEGUARD
INSPECTION REPORTS
AND RESPONSE OF
SAFEGUARD ISSUES BY
CONTRACTOR**

PAWAN & BRAHMAPUTRA (JV)
4th Floor, Royal Arcade, B. Baruah Road, Guwahati- 781007, Assam
Ref: Mangldai/ASDM/2024-25/Slte/305 22nd Jan. 2025

To,
The Chief Executive Officer
Assam Skill University Project,
Mangldoi-784521


Work Name: Detailed Design and Construction of ASU Campus and facilities
(Contract No. CW02/2020-21).

Subject: Regarding Safeguard compliance




Ref: Your Letter no. ASDM/ASUP/12/2022-B/210 Dt. 05th Dec. 2024

Respected Sir,

In reference to the subject matter above, the status of the Compliance that needed to be complied as part of Safeguard compliance is as below:

S.No	Compliance	Status	Remarks
1	Sedimentation Tank should be constructed for Two batching plants at site.	One Sedimentation Tank for BP-2 is being constructed and the location is being finalized for construction of 2 nd S.T.	

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

	the ASU campus.		
9	More number of notice boards visible for general public required around the ASU campus.	Complied.	
10	Ground water abstraction records to be maintained.	Maintained Register.	
11	Quarterly monitoring for air, water and noise by NABL accredited lab for Q4 2024	Being monitored Quarterly	

This for your kind information and record please.

Thanking You,


Pawan & Brahmaputra (JV)

Authorized Signatory

CC: OSD, ASU for information
PTM, ASUP for information
Gender and indigenous people specialist, ASUP for information
TL CS01 for information

PAWAN & BRAHMAPUTRA (JV)
4th Floor, Royal Arcade, B. Baruah Road, Guwahati- 781007, Assam
Ref: Mangaldai/ASDM/2025-26/CIC/... 04th January. 2025

To,

The PTM
Assam Skill University Project
ASUP, Mangaldai (Assam) - 784125

Work Name: Detailed Design and Construction of ASU Campus and facilities (Contract No. CW02/2020-21).

Subject: Submission of Monthly Safeguard SHE Audit Score Report & Environmental safeguard inspection report-02 - December 2024

Dear Sir,

With reference to the above subject matter we are submitting Monthly safeguard SHE audit score report.

1. Monthly safeguard SHE audit score report
2. Environmental safeguard inspection report -02

Further we also request you to kindly review against score attended by contractor for continual improvement.

We look forward for an early action.

Thanking You,

For Pawan & Brahmaputra (JV)

(Authorized Signatory)

Enclosed:

1. Monthly safeguard SHE audit score report
2. Environmental safeguard inspection report -02

CC: OSD PMU ASUP Guwahati Office

PAWAN & BRAHMAPUTRA (JV)
4th Floor, Royal Arcade, B. Baruah Road, Guwahati- 781007, Assam
pRef: Mangaldai/ASDM/2025-26/CIC/... 29th January. 2025

To,

The PTM
Assam Skill University Project
ASUP, Mangaldai (Assam) - 784125

Work Name: Detailed Design and Construction of ASU Campus and facilities (Contract No. CW02/2020-21).

Subject: Submission of Monthly Safeguard SHE Audit Score Report & Environmental safeguard inspection report-03 - January 2025

Dear Sir,

With reference to the above subject matter we are submitting Monthly safeguard SHE audit score report.

1. Monthly safeguard SHE audit score report
2. Environmental safeguard inspection report -03

Further we also request you to kindly review against score attended by contractor for continual improvement.

We look forward for an early action.

Thanking You,

For Pawan & Brahmaputra (JV)

Pawan & Brahmaputra (JV)
B. Baruah Saha
Authorized Signatory
(Authorized Signatory)

Enclosed:

1. Monthly safeguard SHE audit score report
2. Environmental safeguard inspection report -03

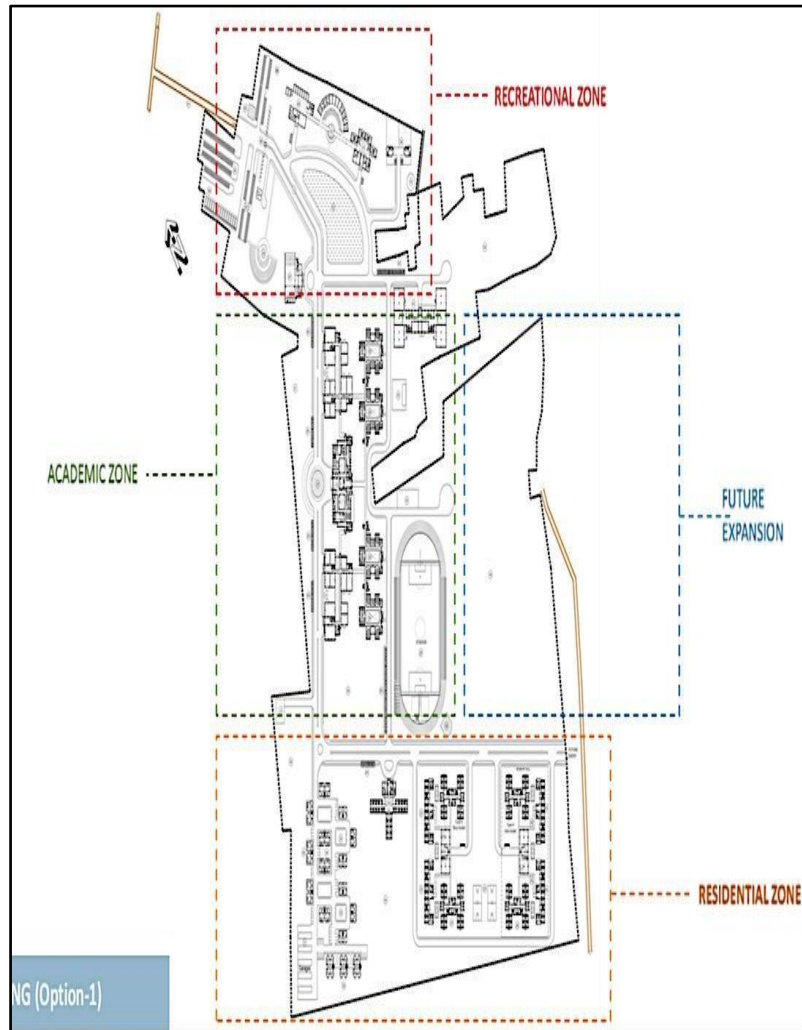
CC: OSD PMU ASUP Guwahati Office

Forwarded to TL/CS02 for his review & report.
Edna
30/1/2025

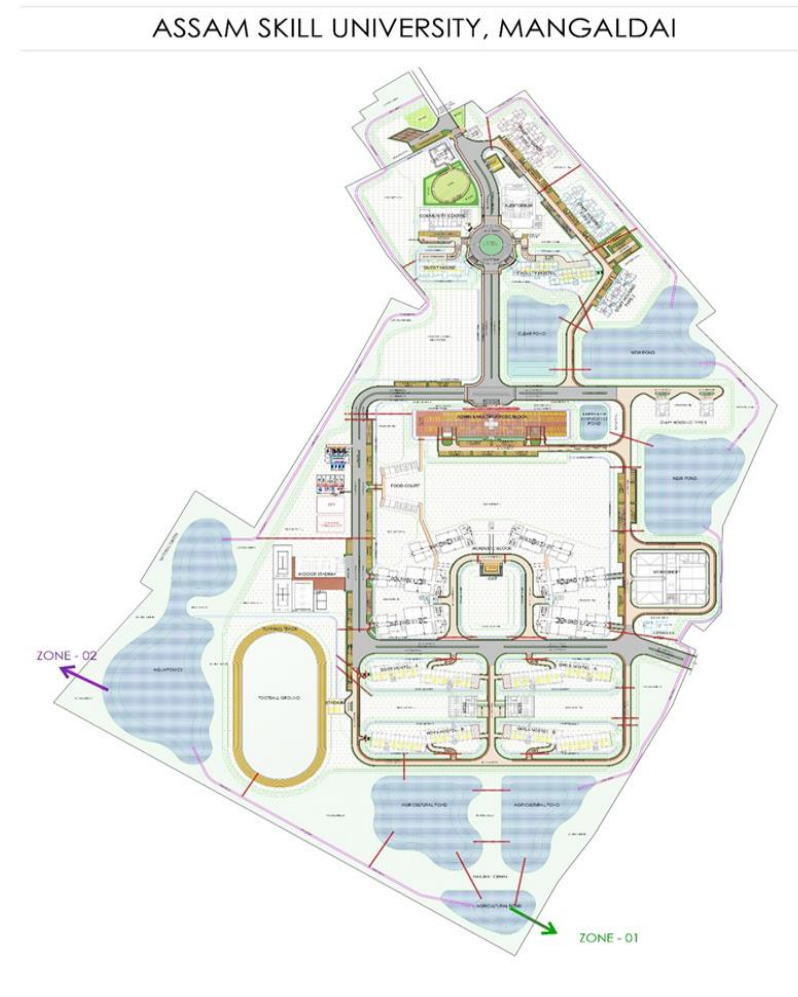
Forwarded to CS02-TL for review dated 4/1/2025
Pawan & Brahmaputra (JV)

ANNEXURE 20: Old and New layout of ASU


A. Old layout with zigzag area



B. New layout of ASU



Annexure 21. Guidelines to be followed for building and construction projects to ensure SUSTAINABLE ENVIRONMENTAL MANAGEMENT in pursuance of Notification no. F.No 19-2/2013-IA-III dated 09.06.2015 under environmental impact assessment notification 2006 for industrial shed and educational institutions-compliance status

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
a.	Pre- requisites	<p>Brief description of the project</p> <p>01. Name of the Project, Survey number, Village, Taluka District, State to be mentioned with Google Earth Image and GPS Co-ordinates of the plot to be submitted.</p> <p>02. Location & distance from nearby landmark places/services to be mentioned.</p> <p>03. Total Build-up area (FSI and Non-FSI) should be mentioned with detailed calculations certified by local planning and sanctioning authority.</p> <p>04. Form 1, Form1A and Consolidated statement as per Environment Notification dated September 14, 2006 to be submitted to local planning and sanctioning authority,</p>	<p>Assam Skill University Project (ASU) is near Mangaldai in Darrang district of Assam (GPS Coordinates - 26°25'21.36"N 92° 0'53.93"E)</p>  <p>The nearest rail head to Mangaldai is Tangla at about 35 km and Rangia Junction is 48 km away from the ASU site. The project site is well connected to important destinations such as Guwahati, New Jalpaiguri, Rangia and Nalbari.</p> <p>Total Build-up area (FSI and Non-FSI) as per tender submitted to local planning and sanctioning authority, building permissions issued from Mangaldai Development Authority (MDA).</p> <p>Not required.</p>	<p>Complied and included in IEE report</p> <p>Complied and included in IEE</p> <p>Complied</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		Regional Office, MoEFCC and SPCB.		Not Applicable
b.	Environment Impacts on Project Land	<p>05. The building layout, set-back/side margin, podium, basement ventilation etc. is prepared based on local building bye-laws and is approved by local competent/ permission from all relevant agencies including Town Planning Authority before commencing the work.</p> <p>06. Provisional fire NOC to be obtained from local CFO (Chief Fire Officer)</p> <p>07. "Consent-to-Establish and Consent-to-Operate" shall be obtained as required from State Pollution Control Board as provided in Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974</p> <p>08. The project proponent shall put in place a credible enforcement mechanism for compliance of energy conservation measures with its allottees, as projected, in perpetuity. This would be monitored by the designated Energy Conservation/efficiency Authority in the State.</p> <p>09. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.</p> <p>10. Top fertile soil to be preserved and to be later used in landscape.</p> <p>11. The excavation/demolition debris must be disposed off in designated landfill areas or to be used within site for levelling purpose. Under no circumstance, the debris will be disposed in river bed/lakes etc.</p>	<p>Before commencing the work building layout, design and drawing approved by local competent authority.</p> <p>Provisional permission taken from Fire and Emergency services Dept. and CTE received from SPCB for ASU.</p> <p>CTE No.PCBA/TEZ/T-2314/23-24/06 dated 10th Aug 2023 will be valid till the date of commissioning or 5 year, whichever is earlier. CTO to be applied after completion of works.</p> <p>Compliances regarding energy conservation measures incorporated in condition of Contract, design and drawing for ASU Campus same approved by local authority.</p> <p>Baseline monitoring conducted for soil and ground water samples and compared with quarterly monitoring results.</p> <p>Top fertile soil preserved at site and later to be used for landscaping purpose.</p> <p>No C&D waste disposed in river bed and lakes etc. only stored at site and used for levelling purpose</p>	<p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		<p>12. Undertaking to be given by project proponent that occupancy will be given only after drainage and water connections are in place.</p> <p>13. Dust/smoke prevention measures such as wheel washing, water sprinkler, screening, barricading and debris chute must be installed.</p> <p>14. This should comply with the provisions of eco-sensitive zone regulations, coastal zone regulations, heritage areas (identified in the master plan or issued separately as specific guidelines), water body zones (in such zones, no construction is permitted in the water-spread and buffer belt of 30 m minimum around the FTL [full tank level]), various hazard prone area regulations, and others if the site falls under any such area.</p> <p>15. The site planning should take into account heat island effect, size and density of the built-up areas cause heat island effect, wherein higher air temperatures are created in the dense urban areas as against the low-rise surrounding built-up areas. The solar access in the morphology of clusters can be understood in terms of utilization of direct (and not reflected or diffused) solar radiation, mainly for day lighting and heat gain. This defines the minimal distances between the building and the relations between built-up volume and open spaces.</p> <p>16. The proportion of open spaces and built-up edges should be designed such that it ensures winter solar access and summer ventilation.</p>	<p>This will be ensured prior to commissioning of the project.</p> <p>Dust mitigation measures are in place during the construction activities.</p> <p>Site does not fall under mentioned categories. Letter received from DFO Mangaldai Wildlife division. Vide letter no. B/46/Misc/1844</p> <p>Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.</p> <p>Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.</p>	<p>After commissioning of ASUP</p> <p>Complied</p> <p>Not Applicable</p> <p>Complied</p> <p>Complied</p>
c.	water	<p>17. Proponent shall obtain permission for ground water withdrawal from State Ground Water Authority.</p> <p>18. Storm water control and its re-use as per CGWB and</p>	<p>Project obtained ground water withdrawal permission from CGWA for construction NOC. No:CGWA/NOC/INF/ORIG/2023/18062</p> <p>Storm water control and its re-used at site as per</p>	<p>Complied</p> <p>Complied</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		BIS Standards for various applications.	CGWB and BIS Standards for various applications.	
		19. The natural flow of existing storm water channel should not be altered or diverted.	No existing storm water channel at project footprint	Not Applicable
		20. Keeping in view the use of large quantities of water in curing, measures for reducing water demand during construction should be followed. Curing water should be sprayed on concrete structures, free flow of water should not be allowed for curing. After liberal curing on the first day, all concrete structures should be painted with curing chemical to save water Concrete structures should be covered with thick cloth/gunny bags and then water should be sprayed on them. This would avoid water rebound and will ensure sustained and complete curing. Ponds should be made using cements and sand mortar to avoid water flowing away from the flat surface while curing.	Concrete structures covered with thick cloth/gunny bags and then water sprayed on them to reduce the large quantities of water in curing.	Complied
		21. The developer should ensure groundwater and municipal water meet the water quality norms as prescribed in the Indian Standards for various applications (Indian standards for drinking [IS 10500-1991], irrigation applications [IS 11624-1986]).	Ground water meets the IS 10500 standards and quarterly ground water monitoring conducted as per IS 10500.	Complied
		22. The use of potable water during construction should be minimized.	Potable water not used for construction	Complied
		23. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Incorporated in the MEP drawing of ASU Campus.	Complied
		24. Source of water to be identified.	Source of water for the project identified (Borewell)	Complied
		25. Water treatment measures such as filtration, softeners, RO etc. should be implemented.	Implemented at site	Complied

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		<p>26. Low flow fixtures and sensors to be used to promote water conservation.</p> <p>27. Water meters to be installed to monitor consumptions of water.</p> <p>28. Water balance table/chart should be prepared.</p>	<p>Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.</p> <p>Water meter installed at project site.</p> <p>Water balance table prepared as per quantifying the capacity of treatment plant with ASU.</p>	<p>Complied</p> <p>Complied</p> <p>Complied</p>
d.	Waste Water Treatment	<p>29. Sewage treatment plant of capacity capable of treating 100% waste water to be installed on site.</p> <p>30. Tertiary treatment such as dual media filter, activated carbon filter and ozonisation/ chlorination to be provided so that the treated water characteristics are as per Central Pollution Control Board (CPCB) norms.</p> <p>31. If STP and pump room are installed in basement, adequate ventilation as per NBC air changes norms should be provided.</p> <p>32. Treated waste water to be recycled for flushing and gardening.</p>	<p>The STP [510 KLD] is Zero Liquid Discharge facility with double plumbing system</p> <p>Will be installed prior to operation of ASU campus.</p> <p>Will be ensuring before commissioning of ASUP</p> <p>Will be ensuring during commissioning of ASUP</p>	<p>Will comply after commissioning of ASUP</p> <p>Will comply after commissioning of ASUP</p> <p>Will comply after commissioning of ASUP</p> <p>Will comply after commissioning of ASUP</p>
e.	Drainage Pattern	<p>33. Excess treated water disposal plan to be submitted.</p> <p>34. Total paved area of the site under parking, roads,</p>	<p>The STP [510 KLD] is Zero Liquid Discharge facility with double plumbing system. No excess treated water allowed to out side the campus as per proposal.</p> <p>Green Building requirement adopted and taken into account during planning and designing of the</p>	<p>Will comply before commissioning of ASUP</p> <p>Complied</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		<p>paths or any other use should not exceed 25% of the site area or net imperviousness of the site not to exceed the imperviousness factor as prescribed by the NBC 2005 (BIS 2005b). whichever is more stringent.</p> <p>35. The final disposal point for excess treated water discharge will be municipal sewer for areas where sewerage network is present.</p> <p>36. In areas where sewerage network is absent, the excess treated water can be used for agriculture or can be disposed off as per CPCB rules.</p> <p>37. Storm water disposal plan to be submitted.</p> <p>38. The final disposal point for storm water will be municipal storm drain for areas where storm water network is present.</p> <p>39. In areas where storm water network is absent, the storm water surface runoff can be disposed off in nearby natural water streams/nallas.</p>	<p>ASU Campus project.</p> <p>As per status of point no e. [33]</p> <p>The proposed STP [Ion-Exchange] outlet parameters as per CBCP norms</p> <p>ASU storm water drainage plan approved and being executed before operation of campus.</p> <p>The state water resources department tendering the external drainage channel for entire catchment area and ASU will benefitted.</p> <p>Compliance as status as e. [38]</p>	<p>Will comply after commissioning of STP</p> <p>Will comply after commissioning of STP</p> <p>Complied</p> <p>Complied</p> <p>Complied</p>
f.	Ground Water	<p>40. Hydro-geological survey for ground water analysis shall be submitted.</p> <p>41. Aquifer capacity and Ground water yield shall be determined.</p> <p>42. Rain water harvesting plan shall be submitted indicating the number of recharge pits and bores and total rain water to be harvested.</p> <p>43 Rain water to be harvested and as a safety</p>	<p>Hydro-geological survey conducted by IIT Guwahati with determination of aquifer & Ground water Yield capacity.</p> <p>Due to higher ground water table harvesting not possible, for compliance rainwater will store in pond and later used in irrigation purpose. Same incorporated in design and drawing of ASU Campus.</p>	Complied

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		precaution, rainwater on-line filters be provided as per NBC norms.		
g.	Solid Waste Management	<p>A) During construction phase:</p> <p>44. Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority The Rules on the Solid Waste Management including Construction Waste issued by the MoEFCC as amended will be applicable.</p> <p>45. Construction spoils including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.</p> <p>46. Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.</p> <p>47. Miscellaneous site debris such as broken tiles etc. shall be used on site for levelling/backfilling purpose.</p> <p>48 Packaged STP /mobile toilets shall be provided for labor camp.</p> <p>49. Polymer bags used for cement and gypsum shall be handed over to authorized recyclers.</p> <p>50. Cardboard boxes and other packaging material will be handed over to authorized recyclers.</p> <p>B) Post construction phase:</p> <p>51. Organic waste composter (OWC) or Vermiculture pits</p>	<p>Muck and C&D waste only stored and used for low laying levelling purpose within the site.</p> <p>The mitigation measure are regularly maintained at site to avoid any spill at site.</p> <p>Should be ensured as per Hazardous Waste Management Rule and applicability in project site</p> <p>It will be executed as per IGBC Norms</p> <p>As per requirement toilet with soak pit provided at site.</p> <p>It will be executed as per IGBC Norms</p> <p>It will be executed as per IGBC Norms</p>	<p>Complied</p> <p>Complied</p> <p>Will Comply.</p> <p>Will Comply</p> <p>Complied</p> <p>Will Comply</p> <p>Will Comply</p> <p>Will Comply</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		shall be installed on site for biodegradable waste treatment (capacity calculated at 0.3kg/tenement/day) The manure generated shall be used for landscaping.	Organic waste composter (OWC) or Vermiculture pits shall be installed on site for biodegradable waste treatment as per requirement	Will Comply
		52. The non-biodegradable waste or e-waste shall be handed over to authorized recyclers.	Non-biodegradable waste or e-waste will be handed over to authorized recyclers	Will Comply
		53. STP sludge shall be removed using filter press or centrifuge mechanism. The dried sludge cakes shall be used as manure in landscaping.	It will be executed as per the requirements and ASU waste management plan	Will Comply
		54 Minimize waste generation stream mine waste segregation storage and disposal; and promote resource recovery from waste.		Will Comply
		55 Resource recovery from waste: Employ resource recovery systems for biodegradable waste as per the Solid Waste Management and Handling Rules, 2000 of the MoEFCC. Make arrangements for recycling of waste through local dealers.	It will be executed as per IGBC Norms and ASU waste management plan	
		56. Use of covering sheets should be done for trucks to prevent dust dispersion from the trucks and washing of tires when trucks with soil/debris coming on road.	All municipal, biodegradable and solid waste will be disposed through local recyclers.	Complied
		57. Hazardous Waste Management Products, such as paints, cleaners, oils batteries, and pesticides that contain potentially hazardous ingredients require special care when being disposed Improper disposal of household hazardous wastes can include pouring them down the drain, on the ground, into storm sewers, or in some cases putting them out with the trash. The hazardous wastes from construction and demolition activities are cantering oil, formwork oil, tar and tar products (bitumen, felt, waterproofing compounds, etc.), wood dust from treated wood lead containing products, chemical admixtures, sealants, adhesive solvents.	Covering and dust mitigation practices in place to avoid air pollution and to be continued. Should be ensured as per Hazardous Waste Management Rule and applicability in project site	Complied

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		Explosives and related products and equipment used in excavation, acrylics, and silica, etc.		
h	Air Quality and Noise levels	<p>A) During construction phase:</p> <p>58. The diesel required for operating DG sets shall be stored in underground tanks and clearance from Chief Controller of Explosives shall be taken, as applicable.</p> <p>59. Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/SPCB.</p> <p>60. Burning of waste to be banned.</p> <p>61. The construction site DG to be maintained regularly so that the smoke emission and noise levels are as per permissible norms.</p> <p>62. Regular P.U.C check for all construction machinery coming on site be done.</p> <p>63. Noise cancellation and insulation devices such as mufflers, barricades etc. to be used to avoid noise propagation to adjoining areas.</p> <p>B) Post construction phase:</p> <p>64. DG to be regularly maintained so that the smoke emission and noise levels are as per permissible norms it shall be at least 6 meters away from the boundary.</p> <p>65. Air quality monitoring to be done quarterly.</p>	<p>The emergency backup of Diesel stored at site within threshold limit and dispenser facility provided by the vendor (Tie-up with Petrol Pump).</p> <p>Quarterly monitoring conducted for Ambient Noise level and results are within prescribed limits.</p> <p>Burning of Waste Banned at site.</p> <p>DG maintenance conducted regularly.</p> <p>PUC check for all construction machinery carried out at site on regular basis.</p> <p>Necessary mitigation measures adopted to avoid noise propagation to adjoining areas.</p> <p>DG will be maintained and monitoring will be carried out on quarterly basis.</p>	<p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p>

Sl.no	Environmental Parameters	Implementation and monitoring parameters to be included in local by- laws.	Status	Remark
		<p>66 STP and water pumps, air blowers etc. should be installed with noise cancellation devices or suitable acoustical enclosures to be given so that the noise levels as per NBC norms are maintained.</p> <p>C) During Construction & Operation:</p> <p>67. The provisions of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) and the rules made thereunder be complied for control of noise pollution during construction and operation.</p> <p>68. Setting up the barriers National Building Code 2005 suggests that design solutions such as barrier blocks should be used to reduce external LA10 noise levels to at least 60-70 dB (A) at any point 10 m from any inward-looking façade. Green belts and landscaping could act as an effective means to control noise pollution. In case of railway tracks, a minimum distance of 50m to 70m may be provided between the buildings and the tracks.</p>	<p>Air quality monitoring will be done on quarterly basis.</p> <p>Acoustical enclosures will be provided to the STP and Water pumps to maintain noise levels within the prescribed limit.</p> <p>During construction all deployed heavy construction vehicle followed and approved under specific control of noise pollution during his operation at construction site. The ambient environmental monitoring was carried of regular interval to assess the impact of noise at construction site.</p>	<p>Will be Complied</p> <p>Complied</p>

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i.	Energy	<p>69. Appropriate processes and material be used to encourage reduction in carbon foot print.</p> <p>70. Use of glass be reduced by up-to 40% to reduce the electricity consumption and load on air-conditioning if necessary use high quality double glass with special reflective coating in windows.</p> <p>71. Solar water heater to be provided adequately.</p> <p>72. Common area lighting should be Solar/LED.</p> <p>73. Install energy meters to monitor overall consumption, and timer-switch for al common area lighting, and other consumption of measurable energy.</p> <p>74. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 3rd November, 2009.</p> <p>75. Wherever possible recycled materials having low embodied energy be used.</p> <p>76. Use of light colored, reflective roofs having an SRI (solar reflectance index) of 50% or more should be promoted. The dark colored, traditional roofing finishes have SRI varying from 5% to 20%.</p> <p>77. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy Conservation Building Code (ECBC) 2007 of the Bureau of Energy Efficiency, Government of India. The energy systems include air conditioning systems, indoor lighting systems, water heaters, air heaters, and air circulation</p>	Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.	Complied

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		<p>devices.</p> <p>78. Use the concept of passive solar design of buildings using architectural design approaches that minimize energy consumption in buildings by integrating conventional energy-efficient devices, such as mechanical and electrical pumps, fans, lighting fixtures, and other equipment, with the passive design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design, and thermal mass.</p> <p>79. The building should be oriented optimally based on Sun-path and engineering analysis to curtail excessive solar radiations.</p> <p>80. Lighting systems should comply with the ECBC 2007 and applicable to interior spaces of building's exterior building features, including facades illuminated roofs architectural features, entrances, exits, loading docks, and luminated canopies exterior building grounds etc. except emergency lighting and lighting in dwelling units</p> <p>81. All the point light sources installed in the building for general lighting shall be LEDs or LEDs or equivalent. All the linear light sources installed in the building for general lighting shall be T-5 or at least 4 Star BEE rated TFLs or equivalent The installed interior lighting power shall not exceed the LPD (Lighting Power Density) value as recommended by ECBC 2007.</p> <p>82. Automatic Lighting shutoff control be installed Interior lighting/Exterior Lighting systems shall be equipped with an automatic control device in accordance with ECBC 2007. Occupancy sensors that shall turn the lighting off within 30 minutes of occupant leaving the space. It should also have option for manual turning on lights</p>	Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.	Complied

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		<p>when the space is occupied. ECBC requires controls in day lit areas that are capable of reducing the light output from luminaries by at least half and Controlling of exterior lighting with photo- controls where lighting can be turned off after a fixed interval.</p> <p>83. The tapping of renewable sources of energy for lighting, heating, cooling and ventilation needs, deserve special attention. For captive solar power generation, a minimum of 15 percent of sanctioned load is the requirement.</p> <p>84. Solar photovoltaic (SPV) systems are direct energy conversion systems that convert solar radiation into electric energy SPV systems should be installed to reduced use of conventional sources of energy. Roof tops of buildings as well as other exposed areas such as of parking shades should be utilized for installation of SPV systems.</p> <p>85. Hot water requirement in buildings should be met through use of various types of solar water heating systems, viz. flat plate collector single glazed double glazed, evacuated tube collectors, and Water heating with solar concentrators.</p> <p>86 The Project Proponent should ensure regular energy audit i. To validate the predicted energy consumption, thermal comfort, and visual comfort criteria by an energy auditor approved by the BEE, Government of India. ii. To ascertain continued safety in the operation of the electrical and mechanical systems of the building through proper maintenance by the owner or the occupants.</p> <p>87. This will be ensured in the contract document by providing for the commissioning of all electrical and mechanical systems by the respective supplier or builder Moreover, the respective facility management group</p>	Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project.	Complied

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		<p>assigned by the owner or the occupants themselves, will carry out the maintenance facilities</p> <p>88. Energy conservation measures like installation of CFLS/LEDs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning Used CFLS and TFLS should be properly collected and disposed off /sent for recycling as per the prevailing guidelines rules of the regulatory authority to avoid mercury contamination Use of solar panels may be done to the extent possible.</p>	Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project as per scope of contract.	Complied
j.	Traffic Movement System	89. Width of driveways, parking provision, ramp width and slope to be kept as per local bye laws.	Width of driveways, parking provision, ramp width and slope kept as per local bye laws. Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project	Complied
k.	Provisions for Differently able	<p>90. The Project Proponent should provide at least the minimum level of accessibility for persons with disabilities</p> <ul style="list-style-type: none"> • Ensure accessibility and usability of the facilities in the building by employees, visitors and clients with disabilities • Ensure access to facilities and services by adopting appropriate site planning to eliminate barriers as per the recommended standards (NBC [BIS 2005f]) • Layout and designing of interior and exterior facilities as per principles of universal design such as prescribed by the National Building Code of India, 	Ramp access provided in building drawings. Layout and designing of interior and exterior facilities is as per principles of universal design prescribed by the National Building Code. Indian Green Building requirement adopted and taken into account during planning and designing of the ASU Campus project	Complied

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		building management policies and procedures, provision of auxiliary aids & appliances, and staff training in disability awareness.		
l.	Green Belt/ Green Cover	91. Provide minimum 1 tree for every 80 sq. mt. of plot area.	All mentioned requirement included in landscaping design and drawing of ASU Campus.	Complied
		92. Wherever trees are cut or transplanted, compensatory plantation in the ratio of 13 to be done in the premise. 93. Native species of trees to be planted. 94. Vegetation to provide as shading and promote evaporative cooling. In hot and dry climates evaporative cooling through appropriately sized wet surfaces of fountains have a desirable effect it should be planned for maximum benefit. 95. The project should have detail proposal for tree plantation, landscaping creation of water bodies etc. along with a layout plan to an appropriate scale.		
m.	Disaster/Risk Assessment Plan	96. Fire tender movement plan to be submitted. 97. Firefighting system to be provided as per the fire NOC. 98. Turning radius to be kept as per Fire NOC or as prescribed in the local by- laws. 99. Public address system to be installed as per the Fire Safety norms. 100. Place of assembly to be indicated.	All mentioned requirement included in Plumbing and Firefighting drawing of ASU Campus.	Complied
n.	Socio Economic	101. Biodegradable and non-biodegradable waste bins to be provided for every household to promote waste	Biodegradable and non-biodegradable waste bins provided at construction site to promote waste	Complied

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	Impact and CSR	<p>segregation at source.</p> <p>102. Importance of environment and various environment drives to be initiated.</p> <p>103. Importance of maintenance of environment infrastructure to be showcased by issuing pamphlets etc.</p> <p>104. Provision for health care, medical kit, creche, and First-Aid room shall be given during construction phase for the construction workers.</p> <p>105. Adequate shelter for resting hours crèche, clean and potable drinking water to be provided to construction workers.</p> <p>106. All local labor welfare laws must be compiled.</p> <p>107. Concerns of the communities being affected by the Project are to be responded on priority, and all possible CSR is to be rendered to make the responses effectively beneficial.</p>	<p>segregation at source.</p> <p>Important Environmental Days and various environment drives initiated at construction site.</p> <p>At construction site posters and signages displayed to showcase environment infrastructure.</p> <p>Health care, medical kit, and First-Aid room provided at construction site for the construction workers.</p> <p>Adequate shelter for resting hours, clean and potable drinking water provided to construction workers.</p> <p>All local labor welfare laws compiled at site with valid permission</p> <p>For ASU Campus project GRM established & functional at site.</p>	<p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p> <p>Complied</p>
o.	Environment Management Plan (EMP)	<p>108 Detailed environment management plan comprising of estimated capital cost and O&M cost for the following environment infrastructure should be submitted</p> <p>a. Sewage Treatment Plant</p> <p>b. Landscaping</p> <p>c. Rain Water Harvesting</p> <p>d. Power backup for environment infrastructure.</p> <p>e. Environment Monitoring</p> <p>f. Solid Waste Management</p> <p>g. Solar and Energy Conservation</p> <p>109. Environment Monitoring Cell with defined functions and responsibility shall be set up and its details be submitted.</p>	<p>All components of environmental infrastructure included in condition of contract and Initial Environmental Examination. The details of environmental infrastructure cost are mentioned in BOQ of civil works.</p> <p>The institutional arrangement for Environmental monitoring is established & functional at site. The full time PMU Environmental safeguard with intermittent input of PMC and full-time civil</p>	<p>Complied</p> <p>Complied</p>

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			contractor HSE personal at site.	