

Environmental and Social Monitoring Report

Reporting Period: July 2022 to December 2022
(4th Monitoring Report)

Assam Intra-State Transmission System Enhancement Project

Prepared by Assam Electricity Grid Corporation Limited, Government of Assam
(AEGCL) for the Asian Infrastructure Investment Bank

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***SEMI ANNUAL ENVIRONMENTAL AND SOCIAL MONITORING
REPORT***

ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT
PROJECT

SUBMITTED TO
ASIAN INFRASTRUCTURE INVESTMENT BANK



SUBMITTED BY
ASSAM ELECTRICITY GRID CORPORATION LIMITED



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*Assam Intra-State Transmission System Enhancement Project, Phase-1***LIST OF ABBREVIATIONS**

AAQS	Ambient Air Quality Standards
AIIB	Asian Infrastructure Investment Bank
AEGCL	Assam Electricity Grid Corporation Limited
AISTSEP	Assam Intra-State Transmission System Enhancement Project
AGM	Assistant General Manager
ARAP	Abbreviated Resettlement Action Plan
BOCW	Building & Other Construction Workers
CGWB	Central Ground Water Board
CTE	Consent to Establish
CTO	Consent to Operate
DC or D/C	Double Circuit
EPC	Engineering, Procurement and Construction
E&S	Environment and Social
ESIA	Environmental and Social Impact Assessment
ESMP	Environmental and Social Management Plan
ESMoP	Environmental and Social Monitoring Plan
ESMPF	Environmental and Social Management Planning Framework
ESS	Environment and Social Standard
EIA	Environmental Impact Assessment
GoA	Government of Assam
Gol	Government of India
GRC	Grievance Redressal Committee
GRM	Grievance Redressal Mechanism
HSE&SMP	Health, Safety, Environment & Social Management Plan
HSE&SMoP	Health, Safety, Environment & Social Monitoring Plan
HMP	Hot Mix Plant
HTLS	High Temperature Low Sag
IA	Implementing Agency
L1	Lowest Tender or Lowest Bid
LA	Land Acquisition
N/A	Not Arises
MoEF&CC	Ministry of Environment, Forest and Climate Change
MoP	Ministry of Power
NOC	No Objection Certificate
OPGW	Optical Power Ground Wire
PAPs	Project Affected Persons
PFA	Power for All
PG	Power Grid
PGCIL	Power Grid Corporation of India Limited
PIU	Project Implementation Unit
PMC	Project Management Consultant
PMU	Project Management Unit
PUC	Pollution Under Control
ROW	Right of Way
RAP	Resettlement Action Plan
RPF	Resettlement Policy Framework
R&R	Rehabilitation and Resettlement
SPCB	State Pollution Control Board
ST	Scheduled Tribe
SC or S/C	Single Circuit
SPCB	State Pollution Control Board

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S/S	Substation
STU	State Transmission Utility
T/L	Transmission Line
TPP	Tribal People's Plan
T&T	Tower and Transmission
USD	United States Dollar
UTs	Union Territories

WEIGHTS AND MEASURES

Hec (hectare)	10,000 sq. mts
kV	Kilo Volt (1,000 volts)
MVA	Mega Volt Ampere

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EXECUTIVE SUMMARY

Asian Infrastructure Investment Bank (AIIB) extends financial assistance for “Assam Intra-State Transmission System Enhancement Project” (AISTSEP) to Assam Electricity Grid Corporation Limited (AEGCL), the Implementing Agency (IA), to support the implementation of Power for All (PFA) plan. PT Feedback Infra Limited, Indonesia in Association with Jade Consult Nepal and NIPSA, Spain has been engaged by AEGCL as Project Management Consultant (PMC). Phase I of the project includes the construction of 10 new substation in 400kV, 220kV and 132kV voltage level along with the associated (332.945 km) transmission lines (TL), Conversion of one no. of existing AEGCL S/S (132/33kV Gohpur) from AIS to GIS; Augmentation of 18 existing substations (replacement of old transformers with new transformers); Augmentation of 186 km of transmission line (restringing of One Single Circuit (S/C) line and two Double Circuit (D/C) line) by High Temperature Low Sag (HTLS) conductors; Replacement of ground wire to Optical Power Ground Wire (OPGW) for 636 km of transmission lines and substation equipment at substations.

The project has not been listed in the list of environmentally sensitive projects and hence, no Environmental Clearance is required, as per the Environmental Impact Assessment (EIA) Notification of 2006 and its subsequent Amendments by the Ministry of Environment, Forest and Climate Change (MoEF&CC). The project has been classified as category B, in accordance with the Environmental and Social Policy (ESP), as of now there is no protected area found within the subproject area.

The sub-projects are located in different areas of Assam.

Following activities with regards to Contract has been done during the reporting period.

- Contract signed on 04.05.2022 vide AEGCL/MD/AIIB/PACKAGE-D/2021/CON-9, site handed over to EPC Contractor for Package-D M/s RS Infra projects Pvt. Ltd. JV with M/s Parth Electricals and Engineering Pvt. Ltd on 20.05.2022 Mobilization Advance released by AEGCL on 24.06.2022. Effective Date of Contract–01.07.2022.
- Contract agreement signed on 07.11.2022 vide AEGCL/MD/AIIB/PACKAGE-F/2022/CON-11, for Package – F with EPC Contractor M/s SUMAJA ELECTROINFRA Pvt. Ltd. Advance Bank Guarantee not yet submitted by EPC Contractor.

Compliance to Applicable Regulations/Standards is being done.

Compliance to Environmental and Social Covenants from the AIIB Loan Agreement is being done.

Compliance to Environmental and Social Management Plan (ESMP) including Environmental and Social Monitoring Plan (ESMoP) is being done.

Accident monitoring is being done as per requirement. During the reporting period some minor incident occurred such as slight cut in hand, finger and knee of the labourer working in the construction activity under different Packages.

CESMP reports for Package – D, E & M updated and submitted to AIIB on 7th September, 2022, as per the updated format of CESMP received from AIIB. Approval from AIIB received on 12th September, 2022 for Pkg-D and 13th September, 2022 for Pkg E & M.

CESMP reports for Package – A, updated and submitted to AIIB on 17th October, 2022 and approval received from AIIB on 12th December, 2022.. Also for Package – I updated CESMP submitted to AIIB on 31st October, 2022 and approved on 3rd November, 2022. For Pkg-C updated CESMP submitted to AIIB on 10th November, 2022 and approval received from AIIB

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on 21st November, 2022 Compliance of the CESMP is being done by EPC contractors under the direct supervision of PMC as per contract requirement.

ESIA & ESMP for Package – M submitted and approved on 28th September, 2022.

ESIA & ESMP report for Package - F submitted to AIIB 27th October, 2022 and approval from AIIB received on 31st October, 2022.

ESIA & ESMP report for Package - L submitted to AIIB on 1st November, 2022 and approval from AIIB received on 3rd November, 2022.

Abbreviated Resettlement Action Plan (ARAP) of Rangia/Kumarikata substation of Package - G was submitted to AIIB on 15th September, 2022 and approval from AIIB received on 13th December, 2022.

Following are the key findings noted during reporting period.

- Copies of permissions/consents/NOC are being submitted by EPC contractors.
- Forest clearance for 400 kV LILO Silchar-Byrnihat T/L of package H (Sonapur) is yet to be obtained from Forest Department. Meanwhile the registration in the MOEFC portal is completed for online submission and online proposal for forest clearance has been submitted by PIU and PMU vide proposal no. FP/AS/TRANS/411353/2022 on 19th Dec'22.
- Tree felling permission for Jaklabandha and Chhaygaon S/S is obtained during this reporting period. However, Tree felling permission for Shankardevnagar and Khumtai S/S is under process and yet to be obtained from Forest Department.
- EPC contractors are unable to submit land schedule due to flood in most part of the Assam during the reporting period as well as Concern circle office officials were busy in Basundhora & other Govt. scheme. Moreover, the tower design is under progress, the same would be required to ascertain the estimate of land requirement for necessary compensation.
- A joint meeting was held on 15th July 2022 with AEGCL, Hon'ble MLA of Sarupathar Constituency, DC (Golaghat), DSP (Golaghat), District Officials, Tea Estate Management and Tea Estate Labourers for Khumtai Substation (Pkg-D) at DC Office, Golaghat. The Deputy Commissioner, Golaghat informed in the meeting that, in line with the recent Cabinet decision, Govt. of Assam, the garden authority is urged to keep an amount of Rs. 1.00 Crore (10% of land value) for distribution amongst the garden workers on Direct Benefit Transfer (DBT) basis on an equitable manner. AEGCL is requested to appoint Grade IV (Non – Technical) employees among the eligible workers against the vacant post in the project. The garden authority is requested to open skill development centre in the garden as soon as possible for PAP.
- The Tea Garden Authority has distributed labour compensation amongst the garden workers on Direct Benefit Transfer (DBT) basis on an equitable manner on 23rd to 25th November, 2022 for acquisition of land from Letukujan Tea Estate for construction of package - D substation.
- Public Grievance Redressal box are being installed at all the substation sites for any public related grievances.
- Medical tie up with nearby hospital has been done by the respective EPC contractors.
- Health checkup camp was organized for the workers at Burhigaon substation site by EPC contractor on 11th December, 2022.

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Following are the corrective actions to be taken:

- Further follow-up for the Forest clearance for 400 kV LILO Silchar-Byrnihat T/L of package H (Sonapur) with concerned Department as online application has been done on 19th December, 2022 for forest clearance.
- Follow-up to expedite the process of permission of tree felling from Forest Department for Shankardevnagar and Khumtai S/S.
- Require surveying the TL with concerned revenue department to finalize the land schedule.
- Project signboard is to be displayed in all project sites, sufficient numbers of PPE kits to be provided in all project sites, fire extinguisher to be installed, and proper labour facility to be provided by each EPC contractors.
- For smooth monitoring, PMC deputed staffs to site offices from July 2022 onwards.
- PMC intends to impart more onsite training on EHS&S – to PIU (AEGCL) and EPC team members.
- Frequent site visit preferably weekly project site visits are needed to be conducted to monitor Safety and Quality by Key experts of PMC apart from regular monitoring by E&S support staffs.
- Monthly External Safety Audits are to be conducted at project sites by PMC Technical experts.
- Weekly review meetings are required to be conducted with EPCs in coordination with AEGCL to monitor project activities, status and resolve issues.
- PMC/PIU/PMU to ensure for filling up of necessary work-related Checklist by EPC contractors in all the ongoing working sites.
- PMC/PIU/PMU to ensure that all EPC contractors will comply with proper housekeeping, proper drainage facilities/waste management facilities at all substation sites.

EPC contractors to comply the following on timely basis:

- Submit all legal/statutory/regulatory documents of relevant work which will be completed prior to commencement of work.
- Comply the Environmental and Social Management Plan as per CESMP and ESMPF till completion of the project.
- Conduct Environmental monitoring as per CESMP and ESMPF till completion of the project.
- EPC contractors should resolve/settle minor issues arise during the execution of the project. Based on the facts, it has been noted that, compliance for most of the E&S monitoring is being done for the project. However, more efforts will be ensured for uninterrupted workflow at site and timely completion of project.

Assam Intra-State Transmission System Enhancement Project, Phase-1

1.0 Introduction

Asian Infrastructure Investment Bank (AIIB) extends financial assistance for “Assam Intra-State Transmission System Enhancement Project” (AISTSEP) to Assam Electricity Grid Corporation Limited (AEGCL), the Implementing Agency (IA), to support the implementation of Power for All (PFA) plan. PT Feedback Infra Limited, Indonesia in Association with Jade Consult Nepal and NIPSA, Spain has been engaged by AEGCL as Project Management Consultant (PMC).

1.1 Brief Project Description

Phase-I of the project includes the construction of 10 new substation in 400kV, 220kV and 132kV voltage level along with the associated (332.945 km) transmission lines (TL), Conversion of one no. of existing AEGCL S/S (132/33kV Gohpur) from AIS to GIS; Augmentation of 18 existing substations (replacement of old transformers with new transformers); Augmentation of 186 km of transmission line (restringing of One Single Circuit (S/C) line and two Double Circuit (D/C) line) by High Temperature Low Sag (HTLS) conductors; Replacement of ground wire to Optical Power Ground Wire (OPGW) for 636 km of transmission lines and substation equipment at substations.

The sub-projects are located in different areas of Assam. The location map of sub-projects is depicted in Figure – 1.

Assam Intra-State Transmission System Enhancement Project

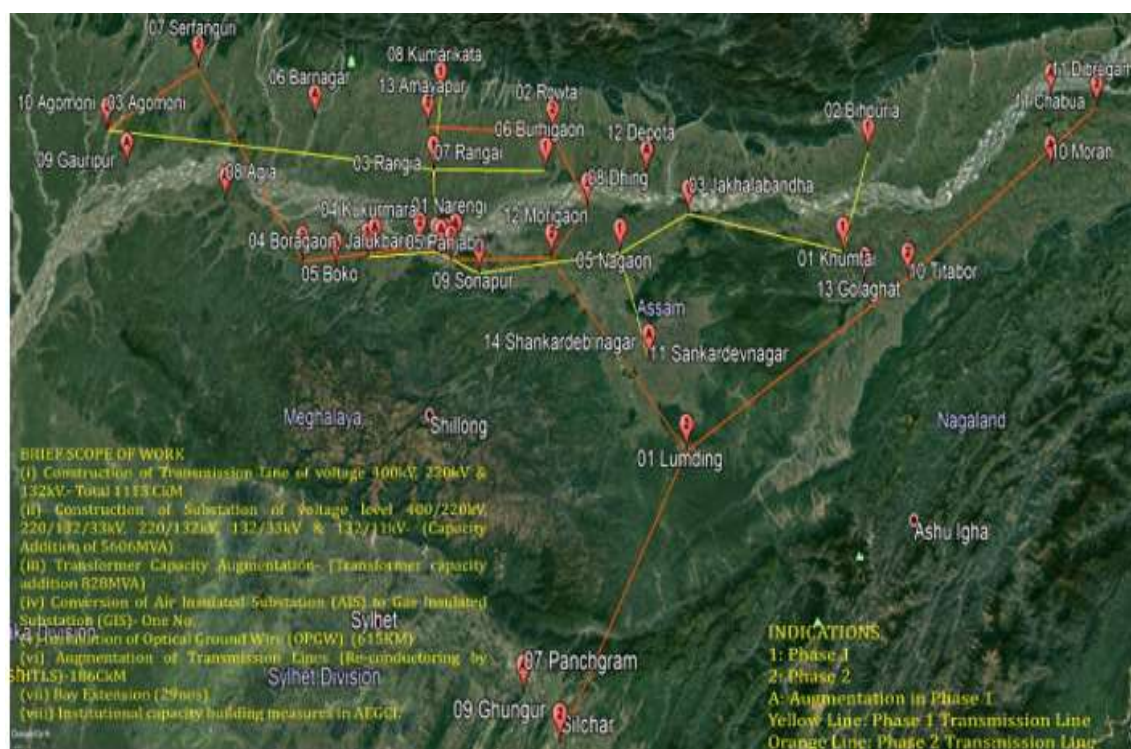


Figure – 1: Location map of Project

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1.1.1 Details of Substations and Transmission Lines

Table –1: Details of Packages (Substations and Transmission Lines)

Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
A	M/s Necon Power & Infra Ltd.	Establishment of new 220/33kV (2X 100MVA), GIS substation at Bihpuria (26°59'17.975"N 93°50'14.797"E)	220 kVBihpuria (New) - Sonabil (Existing) D/C Line – 88.324 km	26/07/2021	22/12/2021	Bihpuria / North Lakhimpur	AGM, North Lakhimpur T&T Division, AEGCL	2	2	Plain low land	Agricultural land	AEGCL (Transferred from Govt.)
		Establishment of new 220/33kV (2X100 MVA), GIS substation at Jakhlabandha (26°34'22.32"N 92°59'47.50"E)	LILO of 220 kV Samaguri - Mariani line at Jakhlabandha (New) S/C Line – 2.715 km			Jakhlabandha / Nagaon	AGM, Nagaon Tower and Transmission (T&T) Division, AEGCL, Amolapatty, Nagaon	2.5	2	Plain	Barren	AEGCL (transferred from APDCL)
B	Consortium of R.S.	Establishment of new 220/33kV	LILO at Nagaon-2			Chhaygaon /	AGM, Mirza Division	1.33	1.33	Plain	Barren	AEGCL

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
	Infraproject s Pvt. Ltd. and M/s SIEMNS Ltd.	(2X100 MVA), GIS substation at Chhaygaon (26° 2'58.10"N 91°16'33.09"E)	(New) on LILO at Chaygaon on 220kV Azara – Boko (Existing) line – 1.61 km	28/07/2021	02/02/2022	Kamrup (R)	AEGCL, Goalpara					(transferre d from IGC, AIIDC)
		Establishment of new 220/33kV (2X100 MVA), GIS substation at Nagaon-2 (26°22'43.31"N 92°41'45.98"E)	Samaguri – Sarusajai (Existing) 220kV D/C Line – 1.56 km			Nagaon	AGM, Nagaon T&T Division, AEGCL, Amolapatty, Nagaon	2.63	2.003	Plain low land	Barren	AEGCL (transferred from APDCL)
C	M/s Siddhatha Engineering Ltd JV with M/s New Modern Technomec h Ltd.	Establishment of new 132/33kV (2X50MVA), GIS substation at Burhigaon (26°32'39.84"N 92°10'40.71"E)	LILO of 132 kV Rowta - Sipajhar (AEGCL-Existing) S/C Line at Burhigaon (AEGCL-	30/07/2021	06/12/2021	Burhigaon / Darrang	AGM 132kV (GSS) Grid Substation, Depota, AEGCL Tezpur.	0.79	0.79	Plain	Barren	AEGCL (transferred from APDCL)

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
			New) - 11.85 km									
D	M/s R.S Infra Projects Pvt. Ltd. JV with Parth Electricals Pvt. Ltd.	Establishment of new 220/132kV (2X160MVA), GIS substation at Khumtai (26°34'9.414"N 93° 47'10.23"E)	i. LILO of 220 kV Samguri - Mariani line 1 at Khumtai – 10.167 km. ii. LILO of 132 kV Jorhat (W) - Bokakhat (Existing) at Khumtai (New) S/C Line – 10.198 km iii. 132 kV Khumtai (New) - Sarupatha	04/05/2022	01/07/2022	Khumtai Golaghat /	AGM, 220kV Mariani GSS, AEGCL.	6.8	6.83	Sloppy	Tea Garden land	AEGCL (purchased from Tea Garden)

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
			r (Existing) S/C Line – 61.205 km									
E	M/s Godrej & Boyce Co. Ltd.	Establishment of new 220/132kV (2X160MVA), GIS substation at Agomoni (26°28'8.16"N 90° 0'40.55"E)	LILO of 220 kV Alipurduar (PGCIL) - Bongaigaon (PGCIL) D/C line at Agomoni (New) Loop In- 2.640 km and Loop Out- 2.215 km	10/01/2022	09/04/2022	Agomoni / Kokrajhar	AGM, 132kV Dhaligaon GSS, AEGCL	3.6	3.6	Plain	Barren	AEGCL
		Establishment of new 220/132kV (2X160 MVA), GIS substation at Shankardevnag	220 kV Sankardevnagar (New)- Misa D/C Line- 26.487 km			Shankardevnagar / Hojai	AGM, 220kV Samaguri GSS, AEGCL	2	2	Plain	Barren	AEGCL

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
		ar (25°59'13.70"N 92°55'31.56"E)										
F	M/s Sumaja Electricals	Conversion of one existing AEGCL substation (132/33kV) Gohpur From AIS to GIS (26052'.12.3" N 93035'.41.2" E)	Not Applicable	7th November, 2022 (Contract agreement signed)		Gohpur Biswanath /	AGM, Nalkata Division, N. Lakhimpur	-	6.72	Plain	Existing AEGCL S/S	AEGCL
G	To be awarded	Establishment of new 400/220kV (2X500MVA), GIS substation at Rangia and 132/33kV GIS substation (2X50MVA Transformers) at Kumarikata(26°3	i. LILO of both circuit of 400kV Balipara (PG) - Bongaiga on (PG) DC line with twin Moose	Bid document preparation is under progress	-	Tamulpur Baksa /	AGM, Rangia, AEGCL	7.47	8.34	Plain	Agricultural Land	AEGCL (purchased from Private Owner)

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
		8°27.86"N 91°36'22.52"E)	ACSR at 400kV Rangia GISkm Loop Out- 0.552km ii. D/C LILO of 220kV Amingaon - Rangia at Rangia GIS Loop In - 31.947km Loop Out- 35.323km iii. Kumarikat a (AEGCL- New) - Nalbari (AEGCL- Existing)									

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
			132 kV S/C Line on D/C Towerat Kumarikat a GIS 36.271 km									
H	To be awarded	Establishment of new 400/220 kV (2X500 MVA), GIS substation at Sonapur (26° 7'55.78"N 91°59'56.80"E)	LILLO of 1 ckt of 400 kV Silchar (PGCIL) - Byrnihat(Meghalaya) Line at Sonapur GIS (AEGCL-New) - 19.606km	Bid document preparation is under progress	-	Sonapur / Kamrup (M)	AGM, Kahilipara, AEGCL	1.2	1.2	Plain low land	Barren	AEGCL
I	M/s BLUE STAR Ltd.	Narengi: 2X50MVA, in place of 2X25MVA, 132/33kV	Not Applicable	06/09/2021	06/12/2021							

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
		Transformers Kahilipara: 3X50MVA, in place of 1X31.5MVA + 2X30MVA 132/33 kV, Transformers (as per ESMPF: Kahilipara: 3x50 MVA, in place of 2x31.5 MVA & 1x30 MVA, 132/33kV) Rangia: 2X50MVA, in place of 2X25MVA, 132/33kV, Transformers Kukurmara, 2X50MVA, in										

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		S/S Details	Transmission line details in (km)									
		place of 1X25MVA + 1X16MVA, 132/33kV Transformers Boko: 1X160MVA + 1X100MVA in place of old 1X50MVA, 220/132kV Transformers {as per supply & dismantling: 1X100MVA is not available in Bill Of Quantities (BOQ)}										
J	M/s BLUE STAR Ltd.	Bornagar: 2X50MVA, in place of 2X25MVA,	Not Applicable	19/07/2021	06/12/2021							

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
		132/33kV Transformers Panchgram, 2X50MVA, in place of 2X25MVA, 132/33kV Transformers Agia: 1X160MVA + 1X100MVA in place of 1X50MVA + 1X100MVA, 220/132kV Transformers Gauripur: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers										

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
K	M/s Siddhatha Engineering Ltd JV with M/s New Modern Technomec h Ltd.	Moran: 2X50MVA, in place of 2X16MVA, 132/33 kV Transformers Dibrugarh: 2X50 MVA, in place of 2X31.5 MVA, 132/33kV Transformers Depota: 2X50MVA, in place of 2X31.5MVA, 132/33kV, Transformers Golaghat: 2X50MVA in place of 2X25MVA, 132/33kV	Not Applicable	30/09/2021	06/12/2021							

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appendix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
		Transformers Shankardevnagar: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers										
L	M/s APAR Industries Ltd.	Not Applicable	Augmentation of 186 km of transmission line (restringing of One Single Circuit (S/C) line and two Double Circuit (D/C) line) by High Temperature Low Sag (HTLS)	23/07/2021	14/08/2021							

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Package	Name of EPC Contractor	Scope of Work		Contract Award	Contract Effective Date	Location / Village / Town / Tehsil / District	Consignee / Concerned Division Official	Area as per Appen dix-11 of ESMPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
			conductors									
M	M/s Sterlite Power Transmissi on Ltd.	Not Applicable	Replacement of ground wire to Optical Power Ground Wire (OPGW) for 636 km of transmission lines	30/10/2021	17/01/2022							

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1.1.2 Details of Transmission Lines

Details of transmission lines are given in the Table below.

Table 2: Details of Transmission Lines

Line length (in km) as per ESMPF	Line length (in km) as per Survey Report	No. of Towers	Right of Way (ROW in mts)	No. of Affected Villages	Names of the Affected Village
A1. Bihpuria (AEGCL-New) - Sonabil (AEGCL-Existing) 220kV D/C Line					
88.324	88.324	293	35	49	1) Pabhoi 2) Gereki 3) Bapujar 4) Kala Pani 5) 3 No. Pulisomani 6) 1 No. Pulisomani 7) Gingia 8) Uttar Gingia 9) Solmari 10) Bargang 11) SeherliaKuhlar Bari 12) Hatimara 13) Sialmari 14) KulaguriJarani 15) BihmariJarani 16) Madhupur 17) Rakhalkuthi 18) Gosala 19) Halibari 20) Singlijan 21) Toton Bari 22) 1 No. Jogi Bari 23) Itapara 24) Jalauk Bari 25) Gupsar 26) Bholaguri 27) Magani Kochari 28) Prub Bari 29) Dalhoushe 30) Mohanigaon 31) Kumar Kata 32) 2 No. Kumar Kata 33) 1 No. KolikaGuri 34) Kumar Kata 35) 2 No. Kumar Kata 36) 3 No. Kumar Kata 37) Changmara 38) ChangmaraGuri 39) Major Dolani 40) Khalihamari 41) 1 No.Khalihamari 42) 2 No. Khalihamari 43) PetwaGusani Than 44) Dhalpur 45) KhanaPichona 46) Sarai Dholani 47) Derguwa

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Line length (in km) as per ESMPF	Line length (in km) as per Survey Report	No. of Towers	Right of Way (ROW in mts)	No. of Affected Villages	Names of the Affected Village
					48) 3 No. Tatibahar 49) Jarabari
A2. LILO of 220kV Samaguri -Mariani line1 (AEGCL-Existing) at Jakhlabandha (AEGCL-New) S/C line					
2.715	2.715	11	35	3	1) SeconeePathar 2) SeconeeBorhola 3) Barholagaon
B1. LILO of 220kV Azara – Boko (AEGCL-Existing) D/C Line at Chhaygaon					
1.619	1.61	9	35	1	1) 2 No.Jambari
B2. LILO of Samaguri (AEGCL- Existing) –Sarusajai (AEGCL-Existing) 220kV D/C Line at Nagaon-2 (AEGCL-New)					
1.565	1.56	6	35	2	1) Holmare 2) Laogaon
C. LILO of 132 kV Rowta - Sipajhar (AEGCL-Existing) S/C Line at Burhigaon (AEGCL-New)					
11.858	11.85	45	27	10	1) Barbari 2) Warpara 3) Barduwaneja 4) Punia 5) Nijnoakujan 6) Paschimbamarpara 7) Kamarpara 8) Baruipara 9) Mandalpara 10) Burhigaon
D1. LILO of 220kV Samaguri - Mariani(AEGCL-Existing) S/C Line 1 at Khumtai (AEGCL-New) - Samaguri (AEGCL-Existing) - S/C Line					
10.167	10.167				
D2. LILO of 132 kV Jorhat (W)-Bokakhat (AEGCL-Existing) at Khumtai (AEGCL- New) S/C Line					
10.198	10.198				
D3. Khumtai (AEGCL-New) - Sarupathar (AEGCL-Existing) 132 kV S/C Line					
61.205	61.205				
E1. Shankardevnagar (AEGCL-New) - Misa (AEGCL-Existing) 220 kV D/C Line					
26.457	26.487	95	35	19	1) Hojat 2) Pam Gaon 3) Tetultala 4) Dhanuhar Basti 5) Telibasti 6) Dimrupar 7) Sholmari 8) Pub-Solmarijan 9) Nikharimukh 10) Bhedeoati 11) Bheloguri Pather

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Line length (in km) as per ESMPF	Line length (in km) as per Survey Report	No. of Towers	Right of Way (ROW in mts)	No. of Affected Villages	Names of the Affected Village
					12) Fakira Basti 13) Alinagar 14) Fatehpur 15) Kathalpur 16) Solmarianpacchim 17) DakhinBhedoati 18) Changmaji 19) Dighaljar
E2. LILO of 220 kV both ckt of Alipurduar (PGCIL) – Bongaigaon (PGCIL) D/C Line at Agomoni (AEGCL- New)					
2.216	Loop In-2.640 km and Loop Out- 2.215 km	20	35	3	1) Kadamguri - II 2) Anthaibari 3) Dhauliguri
G1. LILO of both circuit of 400kV Balipara (PG) - Bongaigaon (PG) DC line with twin Moose ACSR at 400kV Rangia GIS					
21	Loop In -1.595	6	52	1	1) Kachubari
	Loop Out- 0.552	4	52	2	1) Kachubari 2) Geruapar
G2. D/C LILO of 220kV Amingaon- Rangia at Rangia GIS					
20	Loop In -31.947	113	35	14	1) Khairbari 2) 2No Nokul 3) GokhaiHolmari 4) Hiragata 5) Deulkuchi 6) Dhapergaon 7) Matikata 8) Borghuli 9) Gohaigoan 10) Dongpara 11) Jugmary 12) Sherampara 13) Gandibari 14) Kachukata
	Loop Out-35.323	126	35	14	1) Kachukata 2) Singibari 3) Uttar Gandhibari 4) Gandhibari 5) Halonbari 6) Gurmou 7) Paschim Chandamari 8) Bhehbari 9) Deulkuchi 10) Uttar Bardal

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Line length (in km) as per ESMPF	Line length (in km) as per Survey Report	No. of Towers	Right of Way (ROW in mts)	No. of Affected Villages	Names of the Affected Village
					11) Hiragata 12) North Bardal 13) 2No Nokul 14) Khairbari
G3. Kumarikata (AEGCL-New) - Nalbari (AEGCL-Existing) 132 kV S/C Line on D/C Tower at Kumarikata GIS					
40	36.271	131	27	20	1) Ramechubari 2) Hauli 3) Pubhawly 2 No 4) Sarangbari 5) Dighelipar 6) Dimilapar 7) PurbaDimilapar 8) Puneya 9) Bhakatpara 10) Borbil 11) Uttar Barshiyal 12) Bherbheri 13) Dham Dhma 14) Azanpur 15) Vhalamari 16) Rangafali 17) Ahudhali 18) Kachimpur 19) Sariahtali 20) Nalbari
H. LILO of 1 ckt of 400 kV Silchar (PGCIL) - Byrnihat (Meghalaya) Line at Sonapur GIS (AEGCL-New)					
25	19.606	69	52	13	1. BoroThondo 2. Moupur 3. Ghamal 4. Langurighat 5. Rahuri 6. Nartap 7. Bhung Gaon 8. Tetelia 9. Boda Gaon 10. Borkusil 11. Horikota 12. Momora 13. Sonapur
L1. Transmission Capacity Augmentation					
Kukurmara – Sarusajai 220kV D/C line HTLS RESTRINGING					

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Line length (in km) as per ESMPF	Line length (in km) as per Survey Report	No. of Towers	Right of Way (ROW in mts)	No. of Affected Villages	Names of the Affected Village
48					
L2. Gossaigaon – Gauripur 132kV S/C line HTLS RESTRINGING					
62					
L3. M.BTPS (Salakati) - Dhaligaon 132kV D/C Line HTLS RESTRINGING					
76					
M. Replacement of Ground Wire to OPGW					
636					

1.2 Project Progress Status and Implementation Schedule**Table 3: Physical and financial progress status of project during the reporting period**

Sl. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 31 st December, 2022 in %
1	Pkg- A	Effective Date of Contract– 22.12.2021 Scheduled Completion Date– 22.12.2024	M/s Neccon Power And Infra Ltd	228.13	Construction of 220/33kV, 2X100MVA GIS at Bihpuria	7.82%	7%
					Construction of 220/33kV, 2X100MVA GIS at Jakhalabandha	8.49%	
					220kV D/C Pabhoi - Bihpuria Transmission Line – 88 Km	9.32%	
					220kV LILO from Samaguri- Mariani (Line-1) Transmission Line at Jakhalabandha GIS– 2.71Km	9.32%	
2	Pkg- B	Effective Date of Contract– 02.02.2022 Scheduled Completion Date– 02.02.2025	Consortium of M/s R.S Infra Projects Pvt. Ltd. & M/s Siemens Ltd	133.98	Construction of 220/33kV, 2X100MVA GIS at Chaygaon	8.52%	8%
					220kV LILO from Mirza - Boko Transmission Line at Chaygaon GIS – 1.61 Km	8%	
					Construction of 220/33kV, 2X100MVA GIS Nagaon-2.	7.81%	
					220kV LILO from Jawahar Nagar - Samaguri Transmission Line at Nagaon 2 – 1.56 Km	8%	
3	Pkg- C	Effective Date of Contract– 06.12.2021 Scheduled Completion Date– 06.12.2024	M/s Siddhartha Engineering Limited JV with M/s New Modern Technomech Pvt. Ltd	47.65	Construction of 132/33kV, 2X50 MVA GIS at location (Burhigaon)	20.25%	11%
					132 kV LILO of Siphajhar - Rowta Transmission Line at Burhigaon GIS– 11.85 km	23.32%	
4	Pkg- D	Effective Date of Contract– 01.07.2022 Scheduled Completion Date– 01.07.2025	M/s R.S Infra Projects Pvt. Ltd. JV with Parth Electricals Pvt. Ltd.	200.65	Construction of 220/132kV, 2X160 MVA; 132/33kV, 2X50 MVA GIS at location (Khumtai)	3.2%	6%
					LILO of 220kV Samaguri - Mariani line 1 at Khumtai – 10.16 km.	6.47%	
					LILO of 132 kV Jorhat (W) - Bokakhat (Existing) at Khumtai (New) S/C Line – 10.19 km	6.06%	
					132 kV Khumtai (New) - Sarupathar (Existing) S/C Line – 61.20 km	7.31%	

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Sl. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 31 st December, 2022 in %
5	Pkg- E	Effective Date of Contract– 09.04.2022 Scheduled Completion Date- 08.04.2025	M/s Godrej & Boyce Mfg. Co. Ltd	223.48	Construction of 220/132kV, 2X160 MVA GIS at Sankardevnagar 220kV D/C Transmission Line from Sankardevnagar - Misa S/S -26.45 km Construction of 220/132kV, 2X160 MVA GIS at Agomoni 220kV LILO of both Circuit of Alipurduar – Bongaigaon (PGCIL) D/C Line at Agomoni GIS– 3 Km	12.88% 9.1% 12.25% 9.1%	8%
6	Pkg- F		M/s Sumaja Electricals	46.56	Conversion of existing 132 kV Gohpur AIS to GIS Substation	-	-
7	Pkg- G				Construction of 400/220kV, 2X500 MVA GIS; 220/132kV 1X160 MVA GIS; 132/33kV, 2X50 MVA AIS (Kumarikata) at one location (Rangia) and its associated lines.	-	-
8	Pkg- H				Construction of 400/220kV, 2X500 MVA GIS at location (Sonapur) and its associated lines.	-	-
9	Pkg- I	Effective Date of Contract– 06.12.2021 Scheduled Completion Date- 06.12.2023	M/s Blue Star Limited	60.33	Augmentation / Upgradation of 132/33 kV Substations at: i. Narengi ii. Kahilipara iii. Rangia iv. Kukurmara v. Boko vi. Nalbari	39.84%	10%
10	Pkg- J	Effective Date of Contract– 06.12.2021	M/s Hi-Tech Corporation JV with M/s Technical Associates Ltd (JV Partner)	42.82	Augmentation / Upgradation of 132/33 kV Substations at: i. Bornagar ii. Panchgram iii. Gauripur	66.73%	57%

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Sl. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 31 st December, 2022 in %
		Scheduled Completion Date- 06.12.2023			iv. Hailakandi Augmentation / Upgradation of 220/33 kV Substation at Agia		
11	Pkg- K	Effective Date of Contract- 06.12.2021 Scheduled Completion Date- 06.12.2023	M/s Siddhartha Engineering Private Ltd.	43.16	Augmentation / Upgradation of 132/33 kV Substations at: i. Dibrugarh ii. Depota iii. Golaghat iv. Rowta v. Moran vi. Samaguri vii. Sarusajai	64.70%	84%
13	Pkg- L	Effective Date of Contract- 14.08.2021 Scheduled Completion Date- 14.08.2023	M/s Apar Industries Ltd	99.76	Augmentation of Transmission Line Capacity (Three Lines) (HTLS) (148 Ckm) i. 220kV Sarusajai - Mirza Transmission line ii. 132 kV Salakati - Dhaligaon Transmission line iii. 132 kV Gossaigaon - Gauripur Transmission Line	92.67%	90%
14	Pkg- M	Effective Date of Contract- 17.01.2022 Scheduled Completion Date- 16.01.2025	M/s Sterlite Power Transmission Ltd.	43.08	Augmentation of the communication backbone - Replacement of existing ground wire by OPGW (636 km) i. 220kV Mariani to Samaguri Circuit -1 (LILO at Khumtai and Jakhalabandha GIS) ii. 132kV Majuli to Nalkata (North Lakhimpur) iii. 132kV Dibrugarh to Lakwa (LILo at Behiating & Moran) iv. 220kV Mariani to Namrup v. 132kV Gossaigaon to Gauripur vi. 132kV Gossaigaon to Dhaligaon vii. 132kV Gauripur to Bilasipara viii. 132kV Bilasipara to Kokrajhar ix. 132kV Kokrajhar to Salakati	44.37%	19%

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1.3 Brief progress status of project

Brief progress status of the project with respect to activity during the reporting period is given in the table below.

Table 4: Brief progress status of project

Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
Substation Component Sub-project ESIA / RP disclosed	On-going	90%	<ul style="list-style-type: none"> • Training provided on Grievance Redressal Mechanism to Tier-I Grievance Redressal Committee at RE Office, AEGCL – Sankardevnagar on 01st July 2022. • Site visit held on 02nd July 2022 to monitor the Environmental, Health & Safety Standards at Chaygaon Substation (Pkg-B) and to provide Training on Grievance Redressal Mechanism to PIU officials at AEGCL, AGM office of 400kV Kukurmara Grid Substation. • Executive summary of ESIA – ESMP for Rangia/Kumarikata and Sonapur Substations in Assamese language submitted by PMC to AEGCL on 5th July 2022. • Training program on Grievance Redressal Mechanism (GRM) Tier 1 for Burigaon S/S at AGM office, Depota on 07th July 2022. • E&S Checklists submitted by PMC to AEGCL on 15th July 2022. • Site Visit conducted for monitoring of the EHS&S at Jakhalabandha S/S on 15th July 2022 & 22nd July 2022. • Visit held on 15th July 2022 for meeting with Hon'ble MLA of Sarupathar Constituency, DC (Golaghat), DSP (Golaghat), District Officials, Tea Estate Management and Tea Estate Labourers for Khumtai Substation (Pkg-D) at DC Office, Golaghat. • Site Visit held on 16th, 18th & 19th July 2022 for monitoring of the EHS&S at Chhaygaon S/S. • Draft ARAP submitted by PMC to AEGCL on 18th July 2022. • Visit held on 22nd July 2022 to monitor the Environmental, Health & Safety Standards at Jakhalabandha Substation (Pkg-A).

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> • Training program on Grievance Redressal Mechanism provided by PMC to Tier-I GRC - PIU officials at AEGCL, AGM' Office Samaguri for Nagaon-2 Substation on 22nd July 2022. • Site Visit for monitoring of the Environmental Health Safety & Social at Burhigaon S/S on 25th July 2022. • Capacity Building Training Program on Transmission Lines organized by PMC for AEGCL Officials on 26th July 2022. • Training provided by PMC along with PIU Officials on Environmental, Health, Safety and Social Aspects to EPC' representatives at Chaygaon Substation (Pkg-B) on 29th July 2022. • Visit held on 29th July 2022 at Khumtai Substation (Pkg-D) to monitor Social Aspects. • Training on Grievance Redressal Mechanism provided by PMC to Tier-I GRC - PIU officials at AEGCL, Jorhat Circle Office on 01st August 2022 for Khumtai Substation (Pkg -D). • Site Visit to held on 02nd August 2022 to monitor the Social Aspects at Burhigaon Substation (Pkg-C). • Site visit held on 03rd August 2022 to monitor the Environmental, Health & Safety Standards at Chaygaon Substation (Pkg-B). • Visit held on 5th August 2022 to monitor the Safety Standards and Public consultation with local residents regarding the issue of barricading at the excavated area causing road block problem at Burhigaon Substation (Pkg-C). • Training on EHS provided to representatives of EPC Contractor at Sankardevnagar Substation (Pkg-E) on 8th August 2022. • Site visit held on 12th August 2022 to monitor the Environmental, Health & Safety Standards at Chaygaon Substation (Pkg-B). • Semi Annual Report for Jan – June 2022 submitted on 12th August 2022

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> • Site visit held on 18th August 2022 to monitor the Environmental, Health & Safety Standards at Chaygaon Substation (Pkg-B). • Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Jakhlbandha GIS Substation and Site Visit conducted for monitoring of the EHS&S at Jakhlbandha S/S on 23th August 2022. • Visit held on 26th August 2022 for Public consultation with local residents regarding the issue of barricading at the excavated area causing road block problem at Burhigaon Substation (Pkg-C). • Site visit held on 26th August 2022 to monitor the Environmental, Health & Safety Standards at Jakhlbandha Substation (Pkg-A). • Site visit held on 27th August 2022 to Sonapur (Pkg-H) to review Pollution level and Truck Parking Area. • Site visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV GIS Substation at Burhigaon on 28th August 2022. • Site visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV GIS Chaygaon Substation on 31st August 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 01st September 2022. • Site visit on 1st and 3rd September 2022 for monitoring of Environmental, Health, Safety & Social aspects of 220/33 kV Jakhlbandha GIS Substation. • Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Nagaon-2 GIS Substation on 03rd September 2022. • Site Visit on 3rd and 8th September 2022 for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Substation at Burhigaon. • Capacity Building Training Program on Environment, Health and Safety organized by PMC

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>for AEGCL Officials on 5th September 2022 at MRT, Kahilipara.</p> <ul style="list-style-type: none"> • Site Visit on 06th September 2022 for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon Substation. • CESMP for Pkg – D, E., M submitted on 7th September 2022. • ESIA -ESMP for Pkg – M submitted on 20th September 2022. • Training program of Grievance Redressal mechanism (GRM) of Tier at DGM Office Lower Assam T&T Circle, Narangi on 8th September 2022. • Training on EHS&S aspects at PMC Office Rehabari, Guwahati on 09th September 2022. • Training program on Grievance Redressal Mechanism of Tier-1 provided to the DGM office Bongaigaon T&T Circle, Dhaligaon on 12th September 2022. • Site Visit to monitor Site work activity/ (Material verification) Physical verification of OPGW drum at 132 kV Gossaigaon Substation of Pkg-M held on 12th September 2022. • Site Visit on 15th and 20th September 2022 for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV GIS Chhaygaon Substation. • Training program of Grievance Redressal mechanism (GRM) of Tier at DGM T&T Circle, Silchar on 19th September 2022. • Site Visit held on 19th September 2022 to monitor the Site Activities and Environmental, Health, Safety & Social Standards at Hailakandi & Panchgram Substation (Pkg-J). • Site visit on 21st September 2022 by Team Leader, PMC to monitor Safety and Quality Standards at Nagaon-2 Substation, Pkg – B. • Site Visit on 24th September 2022 for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV GIS Burhigaon Substation.

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> • Site visit on 21st September 2022 by Team Leader, PMC to monitor Safety and Quality Standards at Jakhalabandha Substation, Pkg – A. • Site visit on 28th September 2022 to witness Environmental Monitoring of ambient air quality, noise level, water & soil sampling (pre-construction stage) at 132/33kV GIS substation at Gohpur. • Training program of Grievance Redressal mechanism (GRM) of Tier at DGM T&T Circle, Dibrugarh on 29th September 2022. • Training program of Grievance Redressal mechanism (GRM) of Tier at DGM T&T Circle, North Lakhimpur on 30th September 2022. • Site visit held on 6th and 7th October 2022 to monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation (Pkg-B). • Site visit held on 6th and 7th October 2022 to monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Burhigaon GIS Substation. • Site visit conducted for monitoring of the EHS&S at 220/33kV Nagaon-2 GIS Substation on 13th October 2022. • On Site Training on EHS&S and Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation on 17th October 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220kV Package- M (Namrup to Mariani - Transmission Line) OPGW work & 220/132 kV & 132/33kV Khumtai S/S on 17th to 23rd October 2022. • Site Visit held on 19th October 2022 for monitoring of Environmental, Health, and Safety & Social aspects at 220/132kV Shankardevnagar GIS Substation. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Burhigaon GIS Substation on 20th October 2022.

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 20th & 21st October 2022. • Site Visit for monitoring of the Environmental Health Safety and Social Aspect of 220/33kV GIS Jakhlbandha Substation on 21st & 22nd October 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation on 27th October 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Burhigaon GIS Substation on 29th October 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 29th October 2022. • Site Visit and site activity for monitoring of Environmental, Health, Safety & Social aspects of 220kV Mariani to Namrup TL, 132kV Sarupather S/s and Meeting held with Marangi tea estate Manager regarding 132kV Sarupathar to Khumtai T/L ROW issues on 29th October 2022 to 7th November 2022. • On Site training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220 kV Mariani to Namrup T/L on 1st November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Burhigaon GIS Substation on 2nd November 2022. • Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Jakhlbandha GIS Substation on 2nd November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 2nd & 3rd November 2022. • Site Visit for monitoring of the Environmental Health Safety and Social aspect of 220/33kV GIS Jakhlbandha Substation on 2nd & 3rd November 2022.

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> • On Site E&S Training and Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33 kV Burhigaon GIS Substation on 7th November 2022. • On Site Training and Site Visit for monitoring of Environmental, Health, and Safety & Social aspects of 220/33 kV Bihpuria (new) GIS substation and site activity of project related issues on 9th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 9th & 11th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects at 220/132kV Shankardevnagar GIS Substation 11th November, 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 132/33kV Burhigaon GIS Substation on 14th & 29th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation on 11th & 15th November 2022. • On Site Training on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Nagaon-2 GIS Substation on 16th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 17th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects at 220/132kV Shankardevnagar GIS Substation on 18th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation on 18th, 21st & 24th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 19th November 2022. • Site Visit for monitoring of the Environmental Health Safety and Social Aspect of 220/33kV GIS

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>Jakhlbandha Substation on 19th & 21th November 2022.</p> <ul style="list-style-type: none"> • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 29th November 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects at 220/132kV Shankardevnagar GIS Substation on 30th November 2022. • HIV/AIDS awareness program to contractor and workers by EPC and PMC at 220/33kV Substation at Chhaygaon GIS Substation on 1st December 2022. • EHS and AIDS/STDs awareness program to contractor and workers by PMC and EPC at 220/33 kV Jakhlbandha GIS Substation on 1st December 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Chhaygaon GIS Substation on 1st, 5th & 8th December 2022. • Site Visit for monitoring of Environmental, Health, Safety & Social aspects of 220/33kV Nagaon-2 GIS Substation on 1st, 5th & 8th December 2022. • Site Visit for monitoring of the Environmental Health and Safety of 220/33kV GIS Jakhlbandha Substation on 2nd December 2022. • Site Visit for monitoring of Environmental, Health, Safety, Social aspects of 220/132/33kV KHUMTAI GIS Substation on 5th December 2022. • Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/132 kV Agomoni GIS Substation on 5th December 2022. • Site visit for Checking working procedure and quality monitoring of Environment, Health, Safety & Social aspects of contractor and workers by PMC team at 220 kV Mariani to Namrup OPGW Installation on 7th & 13th December 2022. • AIIB E&S Mission Site Visit held on 15th December 2022 for monitor and review Environmental, Health,

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>Safety & Social aspects of 220/33kV Nagaon-2 GIS.</p> <ul style="list-style-type: none"> • AIIB E&S Mission Site Visit held on 15th December 2022 for reviewing of the Environmental Health Safety and Social Aspect of 220/33kV GIS Jakhlbandha Substation. • AIIB E&S Mission Site Visit held on 16th December 2022 for reviewing of Environmental, Health, and Safety & Social aspects at 220/132kV Shankardevnagar GIS Substation. • To monitoring Environmental, Health, Safety and Social aspects of construction phase and public awareness on GRM at Nagaon-2 S/s on 20th & 26th December 2022. • Site Visit for work update & monitoring of Environmental, Health, Safety & Social aspects of Kukurmara to Sarusajai 220 kV D/C Line (Package-L) on 20th, 22nd & 23rd December 2022. • Site Visit for monitoring of the Environmental Health and Safety and public awareness on GRM of 220/33kV GIS Jakhlbandha Substation on 21st & 27th December 2022. • Site Visit for monitoring of Environmental, Health, Safety and Social aspects of 220/132/33kV KHUMTAI GIS Substation on 23rd December 2022. • Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at Kukurmara to Sarusajai 220 kV D/C (PKG-L) on 28th December 2022. • Public awareness program on GRM to local community nearby 220/33kV Chhaygaon GIS Substation by PMC and EPC on 29th December 2022. • Site Visit for monitoring of Environmental, Health, Safety and Social aspects of 220 kV Mariani to Namrup OPGW on 29th December 2022. <p>Evidence of the above activities is Annexed as Appendix 1 & 2.</p>

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
TL Component Sub-project ESIA / RP disclosed	ESIA – ESMP preparation - Not Yet started	-	ESIA-ESMP for Transmission line will be prepared after completion and submission of the land schedule by EPC Contractor and further approval by Revenue dept.
Contract Award	On-going	85%	Contract signed on 04.05.2022 vide AEGCL/MD/AIIB/PACKAGE-D/2021/CON-9, site handed over to EPC Contractor M/s RS Infraprojects Pvt. Ltd. JV with M/s Parth Electricals and Engineering Pvt. Ltd on 20.05.2022 Mobilization Advance released by AEGCL on 24.06.2022. Effective Date of Contract– 01.07.2022. Contract agreement signed on 07.11.2022 vide AEGCL/MD/AIIB/PACKAGE-F/2022/CON-11, for Package – F with EPC Contractor M/s SUMAJA ELECTROINFRA Pvt. Ltd. Advance Bank Guarantee not yet submitted by EPC Contractor.
Construction (civil works, installation of equipment etc.)	Boundary Wall works initiated during the reporting period,	-	Construction of boundary wall for the S/S, construction of GIS building, construction of transformer pad and grantry for Transmission line, installation of transformer in augmentation package and Stringing of OPGW lines, HTLS lines has been done in the reporting period.

The project site specific Gantt chart (L2 Schedule) has been included in respective CESMP reports and the sample copy of the same has been given in **Appendix - 3**.

2.0 Compliance to Applicable Regulations/Standards

Status of Compliance to Applicable Regulations/Standards during the reporting period is given below.

2.1 ESIA - ESMP documentation status of each package as per approved ESMPF

Table 5: ESIA - ESMP documentation status of each package as per approved ESMPF

Pkg No.	Location	Name of the EPC contractor	Status of ESIA-ESMP
A	Bihpuria	M/s NECCON Power & Infra Ltd	<ul style="list-style-type: none"> • Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). • As per discussion held during AIIB Mission in the month of April, 2022 final ESIA-ESMP was revised

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Pkg No.	Location	Name of the EPC contractor	Status of ESIA-ESMP
	Jaklabandha		<p>and seek approval of uploading in Public domain by AEGCL on 30.04.2022.</p> <ul style="list-style-type: none"> • Approval received from AIIB on 30.04.2022. • ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
B	Chhaygaon	Consortium of R.S. Infraprojects Pvt. Ltd. and M/s SIEMNS Ltd.	<ul style="list-style-type: none"> • Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). • As per discussion held during AIIB Mission in the month of April, 2022, final ESIA-ESMP was revised and seek approval of uploading in Public domain by AEGCL on 30.04.2022. • Approval received from AIIB on 30.04.2022. • ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
	Nagaon 2		
C	Burhigaon	M/s Siddhartha Engineering Ltd JV with M/s New Modern Technomech Ltd.	<ul style="list-style-type: none"> • Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). • As per discussion held during AIIB Mission in the month of April, 2022, final ESIA-ESMP was revised and seek approval of uploading in Public domain by AEGCL on 30.04.2022. • Approval received from AIIB on 30.04.2022. • ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
D	Khumtai	M/s R. S. Infraprojects Pvt. Ltd. JV with M/s Parth Electricals	<ul style="list-style-type: none"> • Draft ESIA-ESMP for S/S Submitted to AIIB on 19.05.2022 by AEGCL. • Approval received from AIIB on 27.06.2022 • ESIA-ESMP for Transmission line will be prepared after completion and submission of the land schedule by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
E	Agomoni	M/s Godrej & Boyce Mfg. Co. Ltd.	<ul style="list-style-type: none"> • Draft ESIA-ESMP for S/S Submitted to AIIB on 19.05.2022. • Approval received from AIIB on 27.06.2022. • ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.

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Pkg No.	Location	Name of the EPC contractor	Status of ESIA-ESMP
	Shankardev Nagar		<ul style="list-style-type: none"> Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). As per discussion held during AIIB Mission in the month of April, 2022, final ESIA-ESMP was revised and seek approval of uploading in Public domain by AEGCL on 30.04.2022. Approval received from AIIB on 30.04.2022. ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
F	Construction of 132/33kV GIS Scheme Conversion from AIS at location (Gohpur) Package-F	M/s Sumaja Electro Infra Pvt. Ltd.	<ul style="list-style-type: none"> ESIA & ESMP report for Package - F submitted to AIIB 27.10.2022 and approval from AIIB received on 31.10.2022.
G	Rangia		<ul style="list-style-type: none"> Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). Revised ESIA-ESMP for S/S Submitted to AIIB on 31.05.2022 by AEGCL. Approval received from AIIB on 27.06.2022. ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
	Kumarikata		
H	Sonapur		<ul style="list-style-type: none"> Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised). Revised ESIA-ESMP for S/S Submitted to AIIB on 31.05.2022. Approval received from AIIB on 27.06.2022. ESIA-ESMP for Transmission line will be prepared after completion and submission of the land scheduling by EPC Contractor and further approval by Revenue dept., which is pending due to flood situation in Assam.
I	Narengi	M/s BLUE STAR Ltd.	<ul style="list-style-type: none"> E&S Audit Checklist Submitted to AIIB on 28.12.2021. Approval received from AIIB on 25.03.2022.
	Kahilipura		
	Rangia		
	Kukurmara		
	Boko		
	Nalbari		
J	Barnagar	M/s Hi-Tech JV with M/s TAL Ltd.	<ul style="list-style-type: none"> E&S Audit Checklist Submitted to AIIB on 28.12.2021. Approval received from AIIB on 25.03.2022
	Panchgram		
	Agia		
	Gauripur		
	Hailakandi		

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Pkg No.	Location	Name of the EPC contractor	Status of ESIA-ESMP
K	Moran	M/s Siddhartha Engineering Ltd	<ul style="list-style-type: none"> E&S Audit Checklist Submitted to AIIB on 28.12.2021. Approval received from AIIB on 25.03.2022.
	Dibrugarh		
	Depota		
	Golaghat		
	Rowta		
	Samaguri		
L	BTPS (Salakati)-Dhaligaon D/C	M/s APAR Industries Ltd.	<ul style="list-style-type: none"> As this package only involves augmentation-replacement of old existing conductors by HTLS Conductors, E&S Documents submitted on 12.01.2022. Approval on Environmental aspects received from AIIB on 13.01.2022. ESIA & ESMP report for Package - L submitted to AIIB on 01.11.2022 and approval from AIIB received on 03.11.2022.
	Kukumara-Sarusajai D/C		
	Gossaigaon-Gauripur S/C		
M	Stringing 636 KMS of OPGW Cable	M/s Sterlite Power Transmission Ltd.	<ul style="list-style-type: none"> ESIA & ESMP report submitted and approved by AIIB on 28.09.2022.
	Fibre optics on Station Equipments at 15 Substations		

2.2 Mobilisation of E&S resources at each level i.e. PMU, PMC, and contractors

Table 6: Mobilisation of E&S resources at each level i.e. PMU, PMC, and contractors

S. No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
E&S staffs of Project Management Unit (PMU)						
1.	Mr. DibyaJyoti Baruah	Social Specialist	M.A (Economics)	14+ years	9854339228	es.aegcl.pmu@gmail.com
2.	Mr. Sukanta Bhattacharjee	Social Specialist	Master of Social Work	10+ years	7002298355	
3.	Mr. Rahul Choudhury	Environmental Specialist	M. Sc Environmental Science	9+ years	9864476471	
4.	Mr. Bodhaditya Roy	Environmental Specialist	M. Sc Environmental Science	6+ years	9706663284	
E&S staffs of Project Management Consultant (PMC)						
1.	Dr.Sandipan Das	Senior Environmental Safeguard Expert	Ph.D (Life Science), M.Tech - Civil (Environmental Engineering).	20+ years	8750320755	

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S. No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
			M.Sc (Botany), Emergency Medical Technician			aegcl.pmc@feedbackinfra.com
2.	Mr. Khanin Baishya	Senior Social Safeguard Expert	M.A (Geography), PGD in Rural Development	22+ years	9864223185	
3.	Mr. Bijit Borah	Environmental Investigation Officer	M.Tech (Material Science & Technology) B.E (Mechanical Engineering) 1 year diploma in Health, Safety and Environment	5+ years	7002852186	
4.	Mr. Pankaj Mili	Environmental Investigation Officer	M. Sc, Zoology	6+ years	8486269201	
5.	Mr. Bhaskar Boruah	Environmental Investigation Officer	Bachelor of Arts 1 year diploma in Fire & safety 1 year diploma in Advanced Safety	4+ years	7896069869	
6.	Mr. Kaushik Das	Social Investigation Officer	Bachelor of Arts	13+ years	6001618055	
7.	Mr. Nitumoni Sharma	Social Investigation Officer	Bachelor of Arts	11+ years	9864262937	
8.	Mr. Rahul Gupta	Social Investigation Officer	Bachelor of Arts	4+ years	9472736118	
E&S staffs of Engineering Procurement and Construction Contractors (as per CESMP)						
Package A (Jakhlabandha & Bihpuria)						
1.	Mr. Rahul Konwar	EHS Officer	Bachelor of Arts, Diploma in Industrial Safety.& Fire Engineering	4 years	8638214077	neccon@necconpower.com
2.	Mr. John Tirkey	EHS Officer	Bachelor of Arts, Diploma in Fire & Safety	2 years	7636061988	
3.	Mr. Ane Basant Dutta	Labour Officer	Bachelor of Arts, Diploma	3 years	9706628901	

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S. No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
			in Safety & Health			
Package B (Chhaygaon & Nagaon 2)						
1.	Mr. Ashish Singh Gaur	EHS Manager	B.Tech (Electrical and Electronics) NEBOSH Certification	8 + years	8879558934	site.chaygaon@gmail.com site.nagaon@gmail.com
2.	Md. Haddish	EHS Officer 1	Bachelor of Arts, 1 year Diploma in Fire & Safety, Certification of IOSH & OSHA	11 + years	9340748194	
3.	Mr. Ajit Kumar Yadav	EHS Officer 2	Batchelor of Science and Diploma in Fire and Safety Management	15+ years	9304151579	
4.	Under Recruitment	Social officer-1				
5.	Under Recruitment	Social officer-2	-	-	-	
6.	Under Recruitment	Social Supervisor	-	-	-	
7.	Under Recruitment	EHS Supervisor	-	-	-	
Package C (Burhigaon)						
1.	Mr. Pankaj Cutia	EHS Officer	Diploma in Fire & Safety	2 Years	9957849923	dn.bhattacharya@selindia.net sk.bhanja@selindia.net
2.	Mr. Rajiv Lochan Kalita	Environmental and Social Officer	B. Tech	37 years	9437070382	
3.	EHS Supervisor	Under Recruitment	-	-	-	
4.	Social Supervisor	Under Recruitment	-	-	-	
Package D (Khumtai)						
1.	Ashish Singh Gaur	EHS Manager	B.Tech (Electrical and Electronics) NEBOSH Certification	8 year	8879558934	site.khumtai@gmail.com
2.	Mr. Uday Pratap Singh	EHS Officer	M.Sc Zoology, Diploma in OHSE&P	3+ years	6209481343	
3.	Under Recruitment	Social Officer-1	-	-	-	
4.	Under	EHS	-	-	-	

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S. No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
	Recruitment	Supervisor				
5.	Under Recruitment	Social Supervisor	-	-	-	
Package E (Shankardevnagar & Agomani)						
1.	Mr. Manish Kumar	EHS Officer	Bachelor of Science, Diploma in Industrial Safety & IGC NEBOSH	5 years	9340529616	sagnikb@godrej.com dgarai@godrej.com bhaktas@godrej.com
2.	Mr. Ranjan kumar Choudhary	Labour Officer	B.E. - Electrical	13+ years	9713089110	
3.	Mr. Sourav Basu	EHS Officer & Labour Officer	Advance Diploma in Industrial Safety	6 years	8967588547	
4	Mr. Dharmveer Kumar Sharma	E&S Officer	BSc in Chemistry Dipoma in Industrial Safety Management Diploma in Fire Safety Management and Diploma in Environmental Engineering Management	16+ years	6376219569	
Package F (Gohpur): Bidding under process						
Package G: Bidding under process						
Package H: Bidding under process						
Package I						
1.	Mr. Bibhas Kumar Sen	EHS - Regional Manager	B Tech + MBA in HSE	10 Years	7044066770	rakeshmanna@bluestarindia.com bibhaskumarsen@bluestarindia.com
2.	Mr. Ritanandan Bairi	EHS Engineer	Diploma in Civil and Diploma in Industrial Safety and NEBOSH certified	10 Years	7980680278	
Package J						
1.	Mr. Debajit Goswami	EHS officer	Bachelor of Engineering (Chemical)	20 years	9864031458	kaushikpatni0307@gmail.com
2.	Mr. Pankaj Boruah	EHS Supervisor	Fire and safety diploma	2 years	7086885861	
3.	Ms. Devyani Sarma	Social officer	Master of Social Work	3 years	8486993047	

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S. No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
4.	Mr. Bhaskar Boruah	Social Supervisor	Graduate in Sociology	6 years	7896069869	
Package K						
1.	Imran Alam	Safety officer	Diploma from NIBOSH in safety	12+ years	9279396999	dn.bhattacharya@selindia.net
2.	Subrat Panigrahi	Social officer	Master in social science	20+ years	9437015019	sk.bhanja@selindia.net
Package L						
1.	Saurabh kumar singh	Environment, Health and safety officer	Diploma & Graduate	6 Years	8882201522	smukatinath.kumar@apar.com, shiv.yadav@apar.com
2.	Under Recruitment	Social Officer	-	-	-	
3.	Sanad Ghosh	Safety Supervisor	Diploma	4 Years	6371237665	
4.	Habibur Rahman	Safety Supervisor	Diploma	4 Years	9341694992	
5	Md Shahbaz Alam	EHS Officer	Graduation in Commerce Diploma in Fire and Safety management	1 year	9142478009	
Package M						
1.	Satyam Raj	EHSO	Graduate, one year Diploma in EHS and IOSH	4 Years	9304417172	subhajit.bera@sterlite.com, parikshit.roy@sterlite.com
2.	Md. Ikramul Hoque	Safety Officer	Graduation in Arts Diploma in Fire and Safety Management	4+ years	9731529749	
3.	Mr. Dipak Kumar	Safety Officer	BSc Diploma in Fire and Safety Management	4+ years	6005623236	
4.	Md. Fatik Ahmed	Safety Officer	BSc, Diploma in Industrial Safety Management	11+ years	8651327704	
5.	To be Named	EHS Supervisor	-	-	-	
6.	To be Named	EHS Supervisor	-	-	-	

2.3 Compliance to Applicable Regulations/Standards

Table 7: Compliance to Applicable Regulations/Standards

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
1.	The Environmental (Protection) Act, 1986, and the Environmental (Protection) Rules, 1987-2002 (various Amendments)	Consent for utilization of water from Central Ground Water Board (CGWB), if any, to use ground water for the sub-project. Consent to Establish (CTE) and Consent to Operate (CTO) for construction camps, Crusher, Batching Plant (if any) Hot Mix Plant (HMP), if any for implementation of the Project	Being Complied	Ground water of Existing facility of AEGCL/APDCL (AEGCL sister concern) is being used for construction purpose. Permission for additional water sources will be obtained by EPC contractor. Construction camps have been established within existing AEGCL premises. CTE/CTO of Crusher is being submitted by EPC contractors (for sample Refer Appendix – 4 & 5) Mixture machine is being used for concreting. Relevant documents are being submitted by EPC contractors.
2.	The EIA Notification, 2006 and subsequent Amendments	Project associated activity like quarry operation (if any) for the project will require prior Environmental Clearance. (Note: The construction of substation and Transmission Line (T/L) of project does not come under Purview of EIA Notification 2006 and its subsequent Amendments).	Being Complied	Environmental Clearance related to quarry operation is being submitted by EPC contractors (sample for Reference is Appendix – 6).
3.	Wildlife Protection Act, 1972	Wildlife Clearance	N/A for S/S locations. For T/L, assessment will be done in due course of time.	T/L is located within or close to protected area and the same will be obtained as per requirement.
4.	Forest(Conservation) Act, 1980 and subsequent Amendments	Forest Clearance	N/A for S/S locations. Approx. 3.5 km length of T/L of package H is passing through the forest land, for	Forest Clearance may trigger if any T/L involve diversion of forest land and the same will be obtained as per requirement.

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
			which Forest Clearance process is under progress. For other T/L, assessment will be done in due course of time.	
5.	Ancient Monuments and Archaeological sites & Remains Act 1958	Clearance from Archaeological department	N/A for S/S locations. For T/L, assessment will be done in due course of time.	Clearance from Archaeological department may require, if any Archaeological site in the vicinity of sub-project S/S and T/L identified and the same will be obtained as per requirement.
6.	The Water (Prevention and Control of Pollution) Act, 1974	Permission from CGWB for utilization of water from ground, if any, for the sub-project. No Objection Certificate (NOC) for release of sewage from construction camps etc. from State Pollution Control Board (SPCB).	Being Complied.	Ground water of Existing facility of AEGCL/APDCL (AEGCL sister concern) is being used for construction. Permission for additional water sources will be obtained by EPC contractor. Construction camps have been established within existing AEGCL premises. NOC for release of sewage from construction camps etc. from State Pollution Control Board (SPCB). Domentation for the same is under process and will be shared in next reporting period.
7.	The Air (Prevention and Control of Pollution) Act, 1981	Consent to Establish (CTE) and Consent to Operate (CTO) for Chusher, Batching Plant (if any), HMP (if any) for implementation of the project. Ambient Air Quality Standards (AAQS) to be followed and record to be maintained.	Being Complied	CTE/CTO of Crusher is being submitted by EPC contractors (Refer Appendix – 4 & 5) mixture machine is being used for concreting. Relevant documents are being submitted by EPC contractors.
8.	Noise Pollution (Regulation and Control) Act, 1990 and subsequent Amendments	Ambient Noise Level to be monitored & followed and record to be maintained.	Being Complied	Fitness certificate/ PUC certificate of vehicles, equipments, machineries are being submitted by EPC contractors (sample Annexed in Appendix – 7)

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
9.	Wetlands (Conservation and Management) Rules, 2017	Clearance for Wetland	N/A for S/S locations. For T/L, assessment will be done in due course of time.	Clearance for Wetland may trigger if any T/L falls in notified Wetland and the same will be obtained as per requirement.
10.	Assam (Control of Felling & Removal of trees from Non-forest Land) Rules, 2002	Felling & Removal of trees from Non-forest Land	Being Complied	Permissions are being obtained for S/S (sample given as Appendix - 8). For T/L Felling& removal of trees from Non-forest land will be obtained before construction where ever required.
11.	The Motor Vehicle Act. 1988 and subsequent Amendments	Pollution Under Control (PUC) certificate from State Transport Department and SPCB for Construction Vehicles, Machineries and Equipments.	Being Complied	Fitness certificate/ PUC certificate of vehicles, equipments, and machineries are being submitted by EPC contractors (sample Appendix - 9).
12.	Solid Waste Management Rules, 2016	Generation of Solid Waste during project implementation.	Being Complied	At present, EPC contractors disposed solid waste as per the suggestion of Local Authority. Domentation for the same is under process and will be shared in next reporting period.
13.	Construction and Demolition Waste Management Rules, 2016	Generation of Construction and Demolition Waste during project implementation.	Being Complied	Very less amount of C&D waste gerated in package A (Jakhlabandha) C (Burhigaon) and E (Shankardev Nagar). EPC contractors used the C&D waste for accesses road construction.
14.	Plastic Waste Management Rules, 2016	Generation of Plastic Waste during project implementation.	Being Complied	At present, EPC contractors disposed solid waste as per the suggestion of Local Authority.
15.	Hazardous and Other Wastes (Management & Transboundary Movement) Rules,	Generation of Hazardous and Other Wastes as per (Management & Trans boundary	N/A at current stage of the project.	EPC contractor will submit the compliance of the same (if any) as per requirement.

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
	2016	Movement) Rules, 2016, if any during project implementation.		
16	E-Waste Management Rules, 2016	Generation of E-Waste during construction	N/A at current stage of the project.	EPC contractor will submit the compliance of the same (if any) as per requirement.
17	Batteries (Management and Handling) Rules, 2001	Generation of Batteries Waste during project implementation	N/A at current stage of the project.	Batteries wastes will be disposed of as per requirement in due course.
18	The Building & Other Construction Workers (BOCW) (Regulation of Employment & Conditions of Service) Act, 1996	Regulation of Employment & Conditions of Service during project implementation	Being Complied	EPC contractors submitted relevant documents along with CESMP reports.
19	The Right to Fair Compensation and Transparency in Land Acquisition (LA), Rehabilitation and Resettlement Act, 2013 both incorporated by Gol and GoA.	LA Regulation and Rehabilitation and Resettlement (R&R) Act, 2013 has been followed at the time of Direct Purchase of Land on the basis of mutual consent between the Land owner and the requiring Body PMU (AEGCL).	In major areas where the substations are located, the land belongs to AEGCL and transferred from APDCL. The land that is purchased by AEGCL has followed the Rules and Regulations.	Land purchase/ acquisition process completed.
20	The Scheduled Tribes (STs) and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006	Consent from the STs and Other Traditional Forest Dwellers, if any, and impact observed on them.	N/A for S/S locations. Approx. 3.5 km length of T/L of package H is passing through the forest land, for which FRA will be done as per requirement. For other T/L, assessment will be	Requirement of consent may trigger if any T/L involved any impact on the STs and Other Traditional Forest Dwellers as per (Recognition of Forest Rights) Act, 2006 and the same will be obtained as per requirement.

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
			done in due course of time.	
21	Electricity Act, 2003	The objectives of the Act are to consolidate the laws relating to generation, transmission, distribution, trading and use of electricity and generally for taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity to all.	Being complied	Location, design and related documents including ESIA are being structured as per the requirement of Electricity Act, 2003.
22	Ministry of Power (MoP) guidelines dated 15th October, 2015 for payment of compensation toward Temporary damages in regard to ROW.	During the Power Ministry conference held on April 9 -10, 2015 at Guwahati it has been decided to constitute a committee. The recommendations laid down by the committee are formulated in the form of following guidelines for determining the compensation towards the damages as stipulated in section 67 and 68 of Electricity Act,	NA at current stage.	The Process of giving compensation to the PAPs starts once the EPC contractor will submit their Revenue Village wise Land Schedule and verified by the concerned Revenue/Block office.

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
		<p>2003 read with section 10 and 16 of Indian Telegraph Act, 1885, Compensation @ 85% of Land Value as determined by the District Magistrate based on Circle rate/ Guideline Value and Stamp Act rates for Tower base area (between four legs).</p> <p>Land compensation in the width of ROW subject to a maximum of 15% of Land Value as determined based on Circle rate, Guide line value and Stamp Act, rates.</p> <p>In case of loss of trees and crops a 60 days advance notice to be issued to the legal Cultivator for the standing crops prior to damage. Compensation for cultivator for the crop on the basis of market rate fixed by the Forest / Horticulture Department and 8 years income in case of fruit bearing tree and</p>		

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Sl. No.	Regulations / Standards	Compliance Requirements under the Regulation	Compliance Status {complied; not complied; Not Arises (N/A) at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
		the timber wood tree to be compensated at the rate of market price.		
23	The Antiquities and Art Treasures Act, 1972 and Indian Treasure Trove Act, 1878, Amended in 1949.	If sudden encounter with anything valuable at any stage of project cycle.	Being Complied	EPC contractors comply the same as per requirement.

3.0 Compliance to Environmental and Social Covenants from the AIIB Loan Agreement

Table 8: Compliance to Environmental and Social Covenants from the AIIB Loan Agreement

Schedule #, Para. #	Covenant	Compliance Status	Remarks
Schedule 2, Section I, C, 2	Ensure ongoing Project compliance with ESMPF and Resettlement Policy Framework (RPF)	Being Complied	Details provided in Table No. 4 above.

4.0 Compliance to the Civil Work Contract Agreement

Following activities with regards to Contract has been done during the reporting period.

Contract signed on 04.05.2022 vide AEGCL/MD/AIIB/PACKAGE-D/2021/CON-9, site handed over to EPC Contractor M/s RS Infraprojects Pvt. Ltd. JV with M/s Parth Electricals and Engineering Pvt. Ltd on 20.05.2022 Mobilization Advance released by AEGCL on 24.06.2022. Effective Date of Contract–01.07.2022

Contract agreement signed on 07.11.2022 vide AEGCL/MD/AIIB/PACKAGE-F/2022/CON-11, for Package – F with EPC Contractor M/s SUMAJA ELECTROINFRA Pvt. Ltd. Advance Bank Guarantee not yet submitted by EPC Contractor.

- CESMP of package - D has been submitted on 7th September 2022 and approved on 12th September 2022 by AIIB.
- CESMP of package - E has been submitted on 7th September 2022 and approved on 13th September 2022 by AIIB.

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- CESMP of package - M has been submitted on 7th September 2022 and approved on 13th September 2022 by AIIB.
- CESMP reports for Package – A, updated and submitted to AIIB on 17th October, 2022 and approval from AIIB received on 12th December, 2022.
- CESMP of Package – C updated and submitted to AIIB on 10th November, 2022 and approval received from AIIB on 21st November, 2022.
- CESMP of Package – I updated and submitted to AIIB on 31st October, 2022 and approved on 3rd November, 2022.

Compliance of CESMP for all packages is being done for the respective civil works.

5.0 Compliance to Environmental and Social Management Plan

Key Findings

Following are the key findings noted during reporting period.

- Copies of permissions/consents/NOC are being submitted by EPC contractors.
- Forest clearance for 400 kV LILO Silchar-Byrnihat T/L of package H (Sonapur) is yet to be obtained from Forest Department. Meanwhile the registration in the MOEFC portal is completed for online submission and online proposal for forest clearance has been submitted by PIU and PMU vide proposal no. FP/AS/TRANS/411353/2022 on 19th Dec'22.
- Tree felling permission for Jaklabandha and Chhaygaon S/S is obtained during this reporting period. However, Tree felling permission for Shankardevnagar and Khumtai S/S is under process and yet to be obtained from Forest Department.
- EPC contractors are unable to submit land schedule due to flood in most part of the Assam during the reporting period as well as Concern circle office officials were busy in Basundhora & other Govt. scheme. Moreover, the tower design is under progress, the same would be required to ascertain the estimate of land requirement for necessary compensation.
- A joint meeting was held on 15th July 2022 with AEGCL, Hon'ble MLA of Sarupathar Constituency, DC (Golaghat), DSP (Golaghat), District Officials, Tea Estate Management and Tea Estate Labourers for Khumtai Substation (Pkg-D) at DC Office, Golaghat. The Deputy Commissioner, Golaghat informed in the meeting that, in line with the recent Cabinet decision, Govt. of Assam, the garden authority is urged to keep an amount of Rs. 1.00 Crore (10% of land value) for distribution amongst the garden workers on Direct Benefit Transfer (DBT) basis on an equitable manner. AEGCL is requested to appoint Grade IV (Non – Technical) employees among the eligible workers against the vacant post in the project. The garden authority is requested to open skill development centre in the garden as soon as possible for PAP.
- The Tea Garden Authority has distributed labour compensation amongst the garden workers on Direct Benefit Transfer (DBT) basis on an equitable manner on 23rd to 25th November, 2022 for acquisition of land from Letukujan Tea Estate for construction of package - D substation.
- Public Grievance Redressal box are being installed at all the substation sites for any public related grievances.
- Medical tie up with nearby hospital has been done by the respective EPC contractors.

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- Health checkup camp was organized for the workers at Burhigaon substation site by EPC contractor on 11th December, 2022.

Corrective actions

- Further follow-up for the Forest clearance for 400 kV LILO Silchar-Byrnihat T/L of package H (Sonapur) with concerned Department as online application has been done on 19th December, 2022 for forest clearance.
- Follow-up to expedite the process of permission of tree felling from Forest Department for Shankardevnagar and Khumtai S/S.
- Require surveying the TL with concerned revenue department to finalize the land schedule.
- Project signboard is to be displayed in all project sites, sufficient numbers of PPE kits to be provided in all project sites, fire extinguisher to be installed, and proper labour facility to be provided by each EPC contractors.
- For smooth monitoring, PMC deputed staffs to site offices from July 2022 onwards.
- PMC intends to impart more onsite training on EHS&S – to PIU (AEGCL) and EPC team members.
- Frequent site visit preferably weekly project site visits are needed to be conducted to monitor Safety and Quality by Key experts of PMC apart from regular monitoring by E&S support staffs.
- Monthly External Safety Audits are to be conducted at project sites by PMC Technical experts.
- Weekly review meetings are required to be conducted with EPCs in coordination with AEGCL to monitor project activities, status and resolve issues.
- PMC/PIU/PMU to ensure for filling up of necessary work-related Checklist by EPC contractors in all the ongoing working sites.
- PMC/PIU/PMU to ensure that all EPC contractors will comply with proper housekeeping, proper drainage facilities/waste management facilities at all substation sites.
- **EPC contractors to comply the following on timely basis.**
 - Submit all legal/statutory/regulatory documents prior to commencement of relevant work.
 - Comply the Environmental and Social Management Plan as per CESMP and ESMPF.
 - Conduct Environmental monitoring as per CESMP and ESMPF.

6.0 Compliance to Resettlement Action Plan and Tribal People's Plan (If any)**Table 9: Compliance to Resettlement Action Plan and Tribal People's Plan**

Sl. No.	Abbreviated Resettlement Action Plan (ARAP) and Tribal people's plan	Compliance Status {complied; not complied; n/a at current stage of the project}	Remarks {provide details to show how compliance was achieved; or explain the corrective action done if there was non-compliance}
1.	In this project as per the guidelines of	Being Complied	ARAP cum TDP report for 400/220kV Rangia S/S & 132/33kV Kumarikata S/S

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	AEGCL and AIIB the Resettlement Action Plan (RAP) / Abbreviated Resettlement Action Plan (ARAP) to be prepared in case of LA and direct purchase of land on the basis of mutual consent between land owner and the requiring body PMU (AEGCL), but the above process should be followed by the rules and regulations of LA Act 2013.		was submitted to AIIB on 31.05.2022 by AEGCL. AIIB required some additional data for finalization of ARAP of Rangia/Kumarikata Substation. Prepared the report as per requirement of comments. On weekly review meeting with AIIB on 31.08.2022, AIIB suggested to discuss with the AIIB Social Consultant India regarding the ARAP data requirement. Accordingly, the report is prepared as per the discussion with AIIB Social Consultant India and submits the report on 15 th September, 2022 for AIIB review and approval. AIIB review and approved the ARAP report on 13 th December, 2022.
2.	Provisions for Tribal People's (if any) to be made according to the guideline	Being Complied	TDP report is included in the A/RAP report of Rangia/Kumarikata S/S and approved the report on 13 th December, 2022.

7.0 Summary of Monitoring Results

7.1 Environmental and Social Monitoring

EPC Contractors are being complying the same as per requirement under the direct supervision of PMC as per contract requirement. Baseline data has been taken by EPC contractors and the results and analysis has been given in the respective CESMP. The analysis of the results shows that the results are within permissible limit accept Noise level from the standard of commercial area in Jaklabandha, Nalbari, Depota, Samaguri and Sarusajai, which may be due to noise from movement of vehicles passing in the road nearby the S/S. The detailed package wise base line data is given below.

Table 10: Package wise Ambient Air Quality Monitoring Results (Baseline data generated for pre- monsoon season 2022)

Name of Package	Name of Monitoring Station	Results (Baseline data generated for pre- monsoon season 2022)		Remarks
		PM10 (µg/m3) (Baseline data)	PM2.5 (µg/m3) (Baseline data)	
A	Bihpuria	64	28	24-hours average
	Jaklabandha	68	27	24-hours average
B	Chhaygoan	62	29	24-hours average
	Nagaon 2	59	32	24-hours average
C	Burhigaon	59	21	24-hours average
D	Khumtai	59	32	24-hours average
E	Shankadevnagar	62	26	24-hours average
	Agomoni	59	28	24-hours average

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Table 11: Package wise Ambient Noise Level Monitoring Results (Baseline data generated for pre- monsoon session 2022)

Name of Package	Name of Monitoring Station	Sound Parameters (dBA)		Category of Zones
		Limits in dB(A) / Day time (Baseline data generated for pre- monsoon session 2022)	Limits in dB(A) / Night time (Baseline data generated for pre- monsoon session 2022)	
A	Bihpuria	48.7	38.4	Residential
	Jaklabandha	70	37.5	Residential
B	Chhaygoan	62.8	57.1	Industrial
	Nagaon 2	40.7	35.4	Residential
C	Burhigaon	64.8	58.4	Residential
D	Khumtai	42.5	35.1	Residential
E	Shankadevnagar	57.6	37.5	Residential
	Agomoni	56.4	38.2	Residential
I	Narengi	64.8	48.2	Commercial Zone
	Kahilipura	75	70	Commercial Zone
	Rangia	62.4	36.2	Commercial Zone
	Kukurmara	61.2	39.2	Commercial Zone
	Boko	62.8	39.2	Commercial Zone
	Nalbari	66.2	44.2	Commercial Zone
J	Barnagar	42	-	Commercial Zone
	Panchgram	44	-	Commercial Zone
	Agia	51	-	Commercial Zone
	Gauripur	45	-	Commercial Zone
	Hailakandi	41	-	Commercial Zone
K	Moran	64.3	-	Commercial Zone
	Dibrugarh	64.6	-	Commercial Zone
	Depota	66.2	-	Commercial Zone
	Golaghat	63.8	-	Commercial Zone
	Rowta	60.6	-	Commercial Zone
	Samaguri	65.3	-	Commercial Zone
	Sarusajai	66.3	-	Commercial Zone

Table 12: Package wise Monitoring Results of Vibration (Baseline data generated for pre- monsoon season 2022)

Name of Package	Name of Monitoring Station	Monitoring Period/Date	Time	Value	Vibration mm/sec	Limits Vdb {=20 Log10 (Vm/Vr)}
A	Bihpuria	03.02.2022	Day Time	Max	<0.01	<60
					<0.01	<60
	Jaklabandha	05.02.2022	Night time	Min	<0.01	<60
					<0.01	<60
			Day Time	Max	<0.01	<60
					<0.01	<60
B	Chhayagon	28.02.2022	Day Time	Max	<0.01	<60
					<0.01	<60
	Nagaon 2	04.03.2022	Night time	Min	<0.01	<60
					<0.01	<60
			Day Time	Max	<0.01	<60
					<0.01	<60
C	Burhigaon	25.02.2022	Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60
D	Khumtai	05.05.2022	Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60
E	Shankardevnagar	04.04.2022	Day Time	Max	<0.01	<60
					<0.01	<60
	Agamoni		Night time	Min	<0.01	<60
					<0.01	<60
			Day Time	Max	<0.01	<60
					<0.01	<60

Table 13: Package wise Water Quality Monitoring Results (Baseline data generated for pre- monsoon seassion 2022)

Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon seassion 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
A	Bihpuria	pH	IS 3025 part 11 1983 (RA:2017)	–	6.52	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.068	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	36	500	2000
		Total Suspended	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	4	1	5
		BOD	IS 3025 part 44 1993(RA:2014)	mg/l	<2	–	–
		Dissolved Oxygen	IS 3025 part 38 1989(RA:2019)	mg/l	5.8	–	–
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	1	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.08	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	10.3	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	23.8	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<1	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		E.Coli	HiMedia Kit	MPN/10 0ml	Absent	Absent	Absent
		Total Coliform	APHA 23 rd Edition 2017	MPN/10 0ml	Absent	Absent	Absent
		Pesticides	APHA 23 rd Edition 2017	µg/l	BDL	–	–

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
		Floating Materials	–	–	Not visible	–	–
	Jaklabandha	pH	IS 3025 part 11 1983 (RA:2017)	–	6.74	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.076	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	39	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	2	1	5
		BOD	IS 3025 part 44 1993(RA:2014)	mg/l	<2	–	–
		Dissolved Oxygen	IS 3025 part 38 1989(RA:2019)	mg/l	5.2	–	–
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	1	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.11	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	12.1	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	22.1	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<1	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		E.Coli	HiMedia Kit	MPN/10 0ml	Absent	Absent	Absent
		Total Coliform	APHA 23 rd Edition 2017	MPN/10 0ml	Absent	Absent	Absent
		Pesticides	APHA 23 rd Edition 2017	µg/l	BDL	–	–
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Floating Materials	–	–	Not visible	–	–
B	Chhaygaon	pH	IS 3025 part 11 1983 (RA:2017)	–	6.57	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.17	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	86	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	1	1	5
		BOD	IS 3025 part 44 1993(RA:2014)	mg/l	<	–	–
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	9.9	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.13	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	6.8	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	82	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<5	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
	Nagaon 2	pH	IS 3025 part 11 1983 (RA:2017)	–	6.3	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.51	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	259	500	2000

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	1	1	5
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	13.9	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.09	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	17.3	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	64	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<5	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
C	Burhigaon	pH	IS 3025 part 11 1983 (RA:2017)	–	6.54	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.17	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	92	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	1	1	5
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	14.9	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.15	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	5.5	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	96.7	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<5	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
D	Khumtai	pH	IS 3025 part 11 1983 (RA:2017)	–	6.51	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.13	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	hazen	2	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	46	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	2	1	5
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	6.9	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.06	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	12	200	400
		Hardness	IS 3025 part 21 2009 (RA:2019)	mg/l	48	200	600
		Nitrate	IS 3025 part 34 1988 (RA:2019)	mg/l	<5	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
E	Shankardev nagar	pH	IS 3025 part 11 1983 (RA:2017)	–	6.59	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.5	–	–

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Colour	IS 3025 part 4 1983 (RA:2017)	Hazen	1	5	15
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	286	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	<1	1	5
		BOD	IS 3025 part 44 1993(RA:2014)	mg/l	<2	–	–
		Dissolved Oxygen	IS 3025 part 38 1989(RA:2019)	mg/l	5.2	–	–
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	4.96	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.24	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	32.5	200	400
		Hardness	IS 3025 part 21 2009(RA:2019)	mg/l	173.84	200	600
		Nitrate	IS 3025 part 34 1988(RA:2019)	mg/l	<1	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		E.Coli	HiMedia Kit	MPN/10 0ml	Absent	Absent	Absent
		Total Coliform	APHA 23 rd Edition 2017	MPN/10 0ml	Absent	Absent	Absent
		Pesticides	APHA 23 rd Edition 2017	µg/l	BDL		
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
		Floating materials	–	–	Not visible	–	–
	Agomoni	pH	IS 3025 part 11 1983 (RA:2017)	–	6.51	6.5-8.5	No relaxation
		Conductivity	IS 3025 part 14 1984 (RA:2013)	ms/cm	0.13	–	–
		Colour	IS 3025 part 4 1983 (RA:2017)	Hazen	1	5	15

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon session 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Total Dissolved Solids	IS 3025 part 16 1984 (RA:2017)	mg/l	52	500	2000
		Total Suspended Solids	IS 3025 part 17 1984 (RA:2017)	mg/l	<10	–	–
		Turbidity	IS 3025 part 10 1984(RA:2017)	NTU	<1	1	5
		BOD	IS 3025 part 44 1993(RA:2014)	mg/l	<2	–	–
		Dissolved Oxygen	IS 3025 part 38 1989(RA:2019)	mg/l	4.8	–	–
		Chlorides	IS 3025 part 32 1988(RA:2013)	mg/l	3.9	250	1000
		Fluoride	IS 3025 part 60 2008(RA:2013)	mg/l	<0.5	1	1.5
		Iron	IS 3025 part 53 2003 (RA:2014)	mg/l	0.16	0.3	No relaxation
		Oil and Grease	IS 3025 part 39 1991 (RA:2014)	mg/l	<2	–	–
		Sulphates	IS 3025 part 24 1986 (RA:2019)	mg/l	16.2	200	400
		Hardness	IS 3025 part 21 2009(RA:2019)	mg/l	22.1	200	600
		Nitrate	IS 3025 part 34 1988(RA:2019)	mg/l	<1	45	No relaxation
		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		E.Coli	HiMedia Kit	MPN/10 0ml	Absent	Absent	Absent
		Total Coliform	APHA 23 rd Edition 2017	MPN/10 0ml	Absent	Absent	Absent
		Pesticides	APHA 23 rd Edition 2017	µg/l	BDL		
		Taste	APHA 23 rd Edition 2017	–	Agreeable	Agreeable	Agreeable
		Floating materials	–	–	Not visible	–	–

Table 14: Package wise Soil Quality Monitoring Results (Baseline data generated for pre- monsoon season 2022)

Name of Package	Name of Monitoring	Parameters	Results (Baseline data generated for pre- monsoon season 2022)
A	Bihpuria	pH value(1.5)	5.76
		Sulphite in SO ₃ in %	4.78
		Chloride in mg/kg	8.4
		ORP in mV	520
		Water soluble salts as EC in mS/m	160
		Organic matter in %	5.2
		Moisture Content in %	21.5
	Jakhlabandha	pH value(1.5)	6.42
		Sulphite in SO ₃ in %	4.63
		Chloride in mg/kg	7.6
		ORP in mV	520
		Water soluble salts as EC in mS/m	490
		Organic matter in %	4.2
		Moisture Content in %	28
B	Chhaygaoan	pH value(1.5)	5.94
		Sulphite in SO ₃ in %	6.1
		Chloride in mg/kg	6.8
		ORP in mV	532
		Water soluble salts as EC in mS/m	156
		Organic matter in %	4.6
		Moisture Content in %	21.8
	Nagaon 2	pH value(1.5)	5.85
		Sulphite in SO ₃ in %	6.4
		Chloride in mg/kg	7.3
		ORP in mV	539
		Water soluble salts as EC in mS/m	146
		Organic matter in %	4.7
		Moisture Content in %	21.5
C	Burhigaon	pH value(1.5)	6.12
		Sulphite in SO ₃ in %	5.4
		Chloride in mg/kg	7.9
		ORP in mV	490
		Water soluble salts as EC in mS/m	147
		Organic matter in %	4.8
		Moisture Content in %	23.7
D	Khumtai	pH value(1.5)	5.54
		Sulphite in SO ₃ in %	5.8
		Chloride in mg/kg	6.8
		ORP in mV	568
		Water soluble salts as EC in mS/m	132
		Organic matter in %	4.5

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Name of Package	Name of Monitoring	Parameters	Results (Baseline data generated for pre- monsoon session 2022)
E	Shankardevnagar	Moisture Content in %	34.5
		pH value(1.5)	5.6
		Sulphite in SO ₃ in %	4.63
		Chloride in mg/kg	8.4
		ORP in mV	490
		Water soluble salts as EC in mS/m	396
		Organic matter in %	3.7
		Moisture Content in %	38
	Agomoni	pH value(1.5)	6.4
		Sulphite in SO ₃ in %	5.67
		Chloride in mg/kg	8.7
		ORP in mV	520
		Water soluble salts as EC in mS/m	460
		Organic matter in %	4.1
		Moisture Content in %	29

7.2 Capacity Building Monitoring

The details Capacity building program are provided in Table below.

Table 15: Details Capacity building program

Sl. No.	Date	Topic of Training	Participant/Organization	No. of Participant
1.	01.07.2022	GRM/GRC Training Tier -1, Shankardevnagar	PIU officials EPC Contractor's representatives	3 9
2.	02.07.2022	GRM/GRC Training Tier -1, Chhaygaon	PIU officials	5
3.	07.07.2022	GRM/GRC Training Tier -1, Burhigaon	E&S Specialist of PMU, PIU officials	1 2
4.	22.07.2022	GRM/GRC Training Tier -1, Nagaon -2	PIU officials	4
5.	29.07.2022	Training on EHS&S aspects at Chhaygaon	PIU officials EPC Contractor's representatives and labour	3 2 17
6.	01.08.2022	Site Health Safety Plan	E&S Specialist of PMU, EPC Contractor's representatives	1 6
7.		GRM/GRC Training Tier -1, Khumtai	PIU officials	10
8.	08.08.2022	Training on EHS&S aspects at Shankardevnagar	PIU officials EPC Contractor's representatives and labour	1 3 6
9.	23.08.2022	Training on EHS&S aspects at Jakhalabandha	EPC Contractor's representatives and Labour	3 13

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10.	03.09.2022	Training on EHS&S aspects at Nagaon-2	PIU officials EPC Contractor's Representatives and Labour	3 2 7
11.	05.09.2022	Capacity Building Training Program on EHS&S aspects at MRT workshop Kahilipara	PMU & PIU officials	23
12.	08.09.2022	GRM/GRC Training Tier -1, Narangi	PIU officials	7
13.	09.09.2022	Training on EHS&S aspects at PMC Office Rehabari, Guwahati	EPC Contractor Representative	6
14.	12.09.2022	GRM/GRC Training Tier -1, Bongaigaon	PIU Officials	9
15.	19.09.2022	GRM/GRC Training Tier -1, Silchar	PIU Officials	3
16.	29.09.2022	Training of Grievance Redressal mechanism (GRM) of Tier at DGM T&T Circle, Dibrugarh	PIU Officials	11
17.	30.09.2022	Training of Grievance Redressal mechanism (GRM) of Tier at DGM T&T Circle, North Lakhimpur.	PIU Officials	5
18.	07.11.2022	Training on EHS&S aspects at 132/33 kV Burhigaon GIS Substation.	EPC Contractor's representatives and labour	3 4
19.	09.11.2022	Training on EHS&S aspects at Bihpuria (new) GIS substation.	EPC Contractor's representatives and labour	3 13
20.	16.11.2022	Training on EHS&S aspects at 220/33 kV Nagaon-2 GIS Substation.	EPC Contractor's representatives and labour	2 12
21.	05.12.2022	Training on EHS&S aspects at 220/132 kV Agomoni GIS Substation.	PMU officials EPC Contractor's representatives and labour	2 6 8
22.	12.12.2022	Capacity building Training program for PMU. PIU & EPC Contractor on Environmental Health, Safety and Social Aspects was conducted by E& S Expert of AIIB	PMU PIU PMC EPC Contractor	7 4 5 9
23.	28.12.2022	Training on EHS&S aspects at Kukurmara to Sarusajai 220 kV D/C (PKG-L).	PIU PMU officials EPC Contractor's representatives and labour	2 2 3 14

Apart from the above, regular training to EPC contractors has been given during preparation of their respective Contractor's Environmental and Social Management plan (CESMP) including Traffic Management Plan (TMP) from July to December, 2022.

E & S training was conducted on different topic mentioned below:

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1. Statutory requirement of permission / consent / clearances as per approved CESMP, ESIA – ESMP & ESMPF.
2. Detailed requirement of compliance of approved CESMP as per ESIA – ESMP & ESMPF.
3. Detailed safety requirement during the execution of civil work as per approved CESMP, ESIA – ESMP & ESMPF.
4. Detailed facilities to be provided to labour and contractors GRM process as per approved CESMP, ESIA – ESMP & ESMPF.
5. Detailed requirement of Environmental Monitoring for Ambient Air Quality, Noise Level, Water, Soil quality, Ecological and Social environment as per approved CESMP, ESIA – ESMP & ESMPF.

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Grievance Redress Mechanism (GRM) training/Public awareness was conducted at PIU Offices, AEGCL and nearby the substation sites on different topics mentioned below.

1. Overview of the Grievance Redress Mechanism,
2. Complaints which may arise during the project implementation period (Pre Construction, During Construction and Post Construction),
3. Roles and Responsibilities of GRC Members (PIU),
4. Most common grievances and redressal and
5. How to maintain grievance redressal mechanism Logbook.

All the above documents were provided to the Officials present in the training program and ensuring to maintain proper records on all project specific grievances for GRM.

7.3 Accident Monitoring

Accident monitoring is being done as per requirement. During the reporting period some minor incident (slight cut in 2 labours hands) was occurred at Nagaon 2 site during steel buinding, 2 incident happened in Burhigaon where slight cut in the finger during working in boundary wall construction, 9 incident happened in Chhaygaon substation site where minor cut in the left and right hand of the labours during working in GIS building and boundary wall construction and 4 incident of minor cut in hand occurred at Jakhlbandha substation and 4 incident happened at Bihpuria substation of minor cut and scratches in labour hand and knee while working in boundary wall construction and immediately first aid was given. Moreover, in other sites no incident of accident was observed. However, if any accident occurred during the time of construction, the EPC contractor will record in their accident register.

7.4 Highlighted Actions

- Executive summary of ESIA – ESMP for Rangia/Kumarikata and Sonapur Substations in Assamese language submitted by PMC to AEGCL on 5th July' 2022.
- E&S Checklists submitted by PMC to AEGCL on 15th July 2022.
- Draft ARAP submitted by PMC to AEGCL on 18th July 2022.
- Training program on Grievance Redressal Mechanism provided by PMC to Tier-I GRC - PIU officials at AEGCL, AGM' Office Samaguri for Nagaon-2 Substation, Jorhat Circle Office for Khumtai Substation (Pkg –D), DGM Office Lower Assam T&T Circle, Narangi, DGM office Bongaigaon T&T Circle, Dhaligaon, DGM T&T Circle, Silchar. DGM T&T Circle, Dibrugarh and DGM T&T Circle, North Lakhimpur.
- Capacity Building Training Program on Transmission Lines organized by PMC for AEGCL Officials on 26th July 2022:
- Semi Annual Report for Jan – June'22 submitted on 12th August 2022
- Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Nagaon-2 GIS Substation
- Capacity Building Training Program on Environment, Health and Safety organized by PMC for AEGCL Officials on 05th September' 2022 at MRT, Kahilipara.
- CESMP for Pkg – D, E., M submitted on 7th September' 2022
- ESIA -ESMP for Pkg – M submitted on 20th September' 2022

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- During the reporting period several site visits were conducted for different sites to witness environmental monitoring, monitor the Environmental, Health & Safety Standards, EHS etc.
- Contract of Pkg – D (Khumtai) was effective from 01.07.2022 signed for Pkg –D (Khumtai) and site handed over to EPC Contractor.
- Executive summary of ESIA – ESMP Package -M in Assamese language submitted by PMC to AEGCL on 12th October, 2022, ESIA – ESMP of Package -L in Assamese language submitted by PMC to AEGCL on 7th November, 2022, ESIA-ESMP of Package-F in Assamese Language submitted by PMC to AEGCL on 3rd November, 2022
- CESMP reports for Package –A, updated and submitted to AIIB on 17th October, 2022 and approval from AIIB received on 12th December, 2022
- ESIA & ESMP report for Package- F submitted to AIIB 27th October, 2022 and approval from AIIB received on 31st October, 2022.
- CESMP report for Package –I updated and submitted to AIIB on 31st October, 2022 and approved on 3rd November, 2022.
- ESIA & ESMP report for Package-L submitted to AIIB on 1st November, 2022 and approval from AIIB received on 3rd November, 2022.
- During the reporting period contract agreement signed on 07.11.2022 vide AEGCL/MD/AIIB/PACKAGE-F/2022/CON-11, for Package –F with EPC Contractor M/s SUMAJA ELECTROINFRA Pvt. Ltd.
- CESMP report for Pkg-C updated and submitted to AIIB on 10th November, 2022 and approval received from AIIB on 21st November, 2022
- Revised SEMR is prepared incorporating the comment of AIIB and submitted on 15.11.2022 and approval received from AIIB on 17th November, 2022.
- Approved E&S Checklists forwarded to all EPC Contractors for filling up as per working condition.
- Public awareness program on Grievance Redressal Mechanism provided by PMC/EPC Contractors at Nagaon-2, Jakhlabandha s and Chhaygaon Substation site.
- Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Agamani GIS Substation on 5th December, 2022 and HTLS line at Kukurmara to Sarusajai 220 kV D/C (PKG-L) Line on 28th December, 2022.
- Capacity Building Training Program for PMU/PIU/EPC Contractor on Environmental Health, Safety and Social Aspect was provided by E&S Expert of AIIB on 12th December, 2022.
- Abbreviated Resettlement Action Plan (ARAP) of Rangia/Kumarikata substation of Pkg-G was approved from AIIB on 13th December, 2022.
- During the reporting period revised checklists for E&S submitted by PMC to AEGCL for onward submission AIIB.

8.0 Implementation of Grievance Redressal Mechanism and Complaints Received

Role and responsibilities of the GRM is in pace. The Grievance received during the reporting period are mentioned in the table below.

Table 16: Status of Grievance Received and their Redressal

SI No.	Complain/s	Location/s and Date/s of Complain	Description of Grievance /Complain	Timeline*	Remarks
1	Complain received from the residents nearby the substation.	Burhigaon substation 23rd August, 2022	Blockage of road passing through the substation area due to excavation at S/S for the construction of boundary wall at Burhigaon S/S.	Issue resolved on within 4 days (26th August, 2022)	Issue have been resolved at site through discussion.
2	Complains received from the residents nearby the substation regarding keeping of excavated soil in their land.	Nagaon substation 23rd August, 2022	Demand of compensation by the locals for stock piling the excavated soil in their land during construction of boundary wall footing.	Issue resolved on same day (23 rd August, 2022)	Issues have been settled and no further hindrance upon the ongoing construction activities.
3	Complain received from the residents near the substation.	Jakhlbandha substation 15 th December, 2022	Unhealthy air due to Dust particles and demand for repairing the road of Jakhlbandha S/S.	Issue resolved on within 1 days (16.12. 2022)	Issue have been resolved at site by water sprinkling.
4	Complain received from the residents near the substation.	Jakhlbandha substation 21 st December, 2022	No Lighting provision at night at the construction site and no Barricading at the entrance site	Issue resolved on within 1 days (22.12. 2022)	Lighting facility and barricading provide at site
5	Complain received from the residents near the substation.	Burhigaon substation on 25 th December, 2022	Huge amount of dust particles on the road side	Issue resolved on within 1 days (26.12. 2022)	Water sprinkling done on the road.

9.0 Corrective Action Plan

Table 17: Key issues and Corrective Action Plan

SI No.	Key issues	Action Required	Responsibility	Target Date	Indicator of Compliance /Corrective actions plan
1.	Copies of permissions /consents to be submitted	Submit copies of permissions /consents before commencement of respective activity	EPC contractors	Immediate arrangement before respective activity	Observation / review with EPC contractors / update record
2.	Forest clearance for T/L of package H (Sonapur) is yet to be obtained	Expedite the process of Forest clearance for T/L of package H (Sonapur) from	PMC/PIU/P MU	Immediate arrangement before respective activity	Review with AEGCL/ Forest Department

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SI No.	Key issues	Action Required	Responsibility	Target Date	Indicator of Compliance /Corrective actions plan
	from Forest Department.	Forest Department.			
3.	Tree felling permission for Shankardevnagar and Khumtai S/S is yet to be obtained from Forest Department.	PIU/PMU require to expedite the process of permission of tree felling from Forest Department for Shankardevnagar and Khumtai S/S.	PMC/ PIU/PMU	Immediate arrangement before respective activity	Review with AEGCL /Forest Department
4.	Project signboard is to be displayed in all project sites, sufficient numbers of PPE kits to be provide in all sites, fire extinguisher to be installed, proper labour facility to be provided by EPC contractors.	EPC contractor to ensure availability and maintenance of the same.	EPC contractors	Immediate arrangement	Observation / review with EPC contractors / update record
5.	EPC contractors are unable to submit land schedule due to Revenue Circle offices fail give proper time for joint survey.	Require surveying with concerned revenue department to finalize that land schedule.	EPC contractors	Immediate arrangement	Observation / review with EPC contractors / update record
6	Distribution of compensation to the Teagarden workers on Direct Benefit Transfer (DBT) basis on an equitable manner as per the recent Cabinet decision, Govt. of Assam the garden authority.	Follow -up with the Tea Garden Authority for Distribution of the said compensation.	PMC / PIU/ PMU	Immediate arrangement	Review with AEGCL/District Administration/ Tea Garden Authority

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SI No.	Key issues	Action Required	Responsibility	Target Date	Indicator of Compliance /Corrective actions plan
	AEGCL is requested to appoint Grade IV (Non – Technical) employees among the eligible workers against the vacant post in the project.	Appoint Grade IV (Non – Technical)	AEGCL	As per requirement	Review with AEGCL/District Admistration/ Tea Garden Authority
	The garden authority is requested to open skill development centre in the garden as soon as possible.	Open skill development centre	AEGCL /District Admistration / Tea Garden Authority	As per requirement	Review with AEGCL/District Admistration/ Tea Garden Authority
7	Public awareness program on Grievance Redressal Mechanism to be provided by PMC/EPC	To be conducted by PMC/EPC staff	PMC/EPC contractor	Immediate arrangement	Observation / review with EPC contractors / update record
8	PIU/PMC to ensure for filling up of necessary work-related Checklist by EPC contractors in all the ongoing working sites.	Necessary work-related checklist to be filled up by EPC	PIU/PMC/EPC Contractor	Regularly	Observation / review with EPC contractors / update record
9	PMU/PIU/PMC to ensure that all EPC contractors will comply with proper housekeeping, proper drainage facilities/waste management facilities at all substation sites.	EPC contractor should ensure proper housekeeping, drainage facilities etc in all work site.	EPC Contractor	Immediate arrangement	Observation / review with EPC contractors / update record
10	Health check-up camp needs to be organized in the respective substation site by the EPC contractors.	Conduct the health check-up camp at respective working site	EPC Contractor	Immediate arrangement	Observation / review with EPC contractors / update record

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SI No.	Key issues	Action Required	Responsibility	Target Date	Indicator of Compliance /Corrective actions plan
11					

10.0 Conclusion and Recommendations

EPC contractors have resolved/settled minor issues arise during the execution of the project. Based on the facts, it has been noted that, compliance for most of the E&S monitoring is being done for the project. However, more efforts will be ensured for uninterrupted workflow at site and timely completion of project.

EPC contractors to comply the following on timely basis:

- Submit all legal/statutory/regulatory documents prior to commencement of relevant work.
- Comply the Environmental and Social Management Plan as per CESMP and ESMPF.
- Conduct Environmental monitoring as per CESMP and ESMPF.

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Appendix 1: Photographs of Some of the site visits, EHS training and GRM training

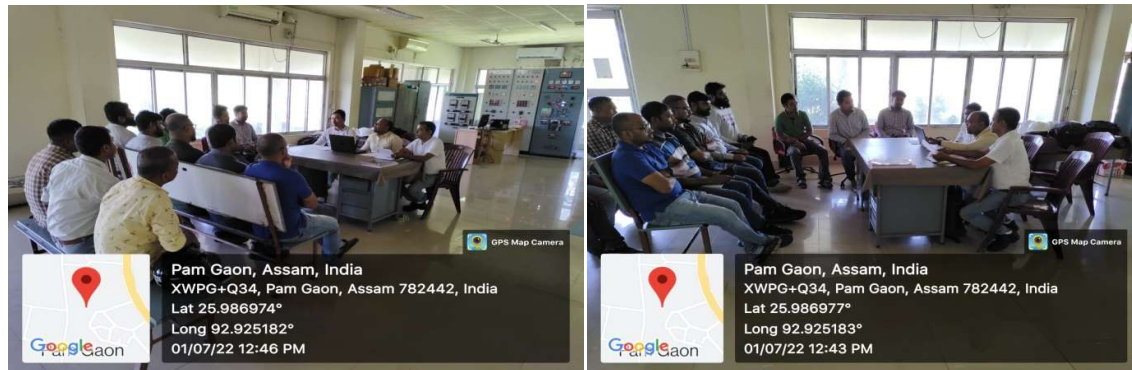


Photo Plate 1&2- Training provided on Grievance Redressal Mechanism to Tier-I Grievance Redressal Committee at RE' Office, AEGCL – Sankardevnagar Substation.
Date- 01.07.2022

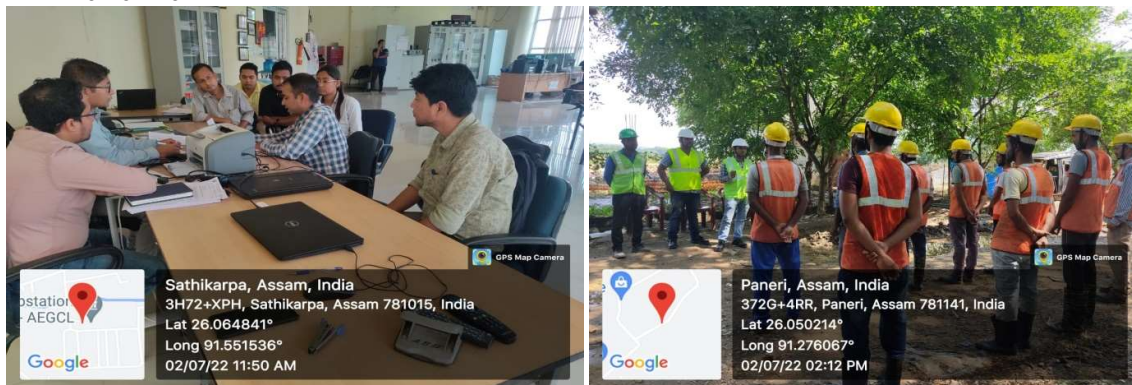


Photo Plate 3&4- Training provided on Grievance Redressal Mechanism to PIU officials at AEGCL, AGM office of 400kV Kukurmara Grid Substation and Interaction with workers during site visit to Chaygaon Substation.
Date-02.07.2022



Photo Plate 5&6- Meeting with Hon'ble MLA of Sarupathar Constituency, DC (Golaghat), DSP (Golaghat), District Officials, Tea Estate Management and Tea Estate Labourers for Khumtai Substation (Pkg-D) at DC Office, Golaghat.
Date-15.07.2022

Assam Intra-State Transmission System Enhancement Project, Phase-1



Photo Plate 7- Training on Grievance Redressal Mechanism provided by PMC to Tier-I GRC - PIU officials at AEGCL, Jorhat Circle Office.
Date- 01.08.2022



Photo Plate 8- Public consultation with local residents at Burhigaon Substation.
Date- 05.08.2022



Photo Plate 9 & 10- Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Jakhlabandha GIS Substation.
Date- 23.08.2022



Photo Plate 11&12- Training program on Environment, Health, Safety & Social aspects to contractor and workers by PMC team at 220/33 kV Nagaon-2 GIS Substation.
Date- 03.09.2022

Assam Intra-State Transmission System Enhancement Project, Phase-1



Photo Plate 13 & 14- Capacity Building Training Program on Environment, Health and Safety organized by PMC for AEGCL Officials at MRT, Kahilipara.
Date- 05.09.2022



Photo Plate 15- Training on EHS&S aspects at PMC Office Rehabari, Guwahati.
Date- 09.09.2022

Photo Plate 16- PMC officials imparted training to PIU officials at DGM Office, Silchar.
Date- 19.09.2022



Photo Plate 17- Witness the monitoring of noise quality at pre-construction stage.
Date- 28.09.2022

Photo Plate 18- Witness the monitoring of water.
Date- 28.09.2022

Assam Intra-State Transmission System Enhancement Project, Phase-1



Photo Plate 19- Witness the monitoring of ambient air quality at pre-construction stage
Date- 28.09.2022



Photo Plate 20- Witness the sampling of soil.
Date- 28.09.2022



Photo Plate 21- PMC officials imparted training to PIU officials at DGM office, T&T Circle, AEGCL, Dibrugarh.
Date- 29.09.2022



Photo Plate 22- PMC official conducted on-site training on EHS&S aspects at Chhaygaon S/S.
Date- 17.10.2022



Photo Plate 23- PMC E&S team monitoring labour's safety at Nagaon-2 S/S.
Date- 29.10.2022



Photo Plate 24- Onsite training program on Environment, Health, Safety and Social aspects & GRM at Nagajanka (Pkg-M).
Date-01.11.2022

Assam Intra-State Transmission System Enhancement Project, Phase-1



Photo Plate 25- Training program on Environmental, Health, Safety & Social for the workers by PMC team at Bihpuria S/S.
Date- 09.11.2022



Photo Plate 26- Training program on Environmental, Health, Safety & Social for the workers by PMC team at Nagaon-2 S/S.
Date- 16.11.2022



Photo Plate 27- HIV/AIDS awareness programme conducted at Jakhalabandha S/S.
Date- 01.12.2022



Photo Plate 28- Training program of Environment, Health, Safety and Social aspects at Agomoni S/S.
Date- 05.12.2022



Photo Plate 29 & 30- Capacity building training programme on Environment, Health, Safety and Social aspects for PMU, PIU and EPC contractors by AIIB Environment Expert.
Date- 12.12.2022



Assam Intra-State Transmission System Enhancement Project, Phase-1



Photo Plate 31 & 32– AIIB Environment Specialist PIU, PMU and PMC officials discussing with EPC officials w.r.t. EHS aspects during site visit.
Date- 15.12.2022 & 16.12.2022



Photo Plate 33 & 34– Training program of Environment, Health, Safety and Social aspects with the contractor & workers by PMC team at Borjhar (Pkg-L).
Date- 28.12.2022



Photo Plate 35 & 36– Public Consultation with local residents at Chhaygaon S/S.
Date- 29.12.2022

Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 2: Attendance sheets some of the consultations

Attendance sheet of public consultation in Jambari-1, near Chhaygaon S/S and
Burhigaon S/S

FEEDBACK
FEEDBACK
Working - Right to Information, Assam

ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT
List of Participants

Consultations with Local People

Date 29.12.2022 Venue Jambari-1

SL. No	Name	Age	Sex	IP (Y/N)	Education	Project Affected Yes/No	Signature
9.	Kasim Ali	30	M	No	B.S	No	
10.	Seikh Abehnlla	37	M	Y	H.S.	Y	
11.	NUR Huseyn	33	M	Y	H.S	Y	
12.	Mohammad Hadhish	34	M	Y	Graduate	Y	
13.	Seikh Ali	52	M	Y	III	Y	
14.	Seikh Ali	45	M	Y	V	Y	
15.	Mohammad Ali	36	M	Y	H.S	Y	
16.	Nurul Amin Hussain	37	M	Y	12th	Y	

Assam Intra-State Transmission System Enhancement Project, Phase-1

FEEDBACK
Working with you to improve the project

ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT
List of Participants

Consultations with Local People

Date: 29.12.2022 Venue: Jambori-1

SL. No	Name	Age	Sex	IP (Y/N)	Education	Project Affected Yes/No	Signature
17	Syed Nurul Amin	34	M	No	H.S	No	
18	Md. NAZRUL HUSSIN	37	M	✓	9th	✓	
19	মি. তরুণ-আলী	39	M	✓	H.S	✓	
20	ABIDUL HUSSEIN	23	M	✓	B.A	✓	
21	MOJIBUR ALI	25	M	✓	7th	✓	
22	Gumunur Ali	24	M	✓	H.S	✓	
23	হুসেনাতিয়াত আলী	28	M	✓	8th	✓	
24	MOTIUR ROHIM	22	M	✓	B.A	✓	

FEEDBACK
Working with you to improve the project

ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendance Sheet: Public Consultation, Environmental, Health, Safety and Social aspect

Date: 26.12.22 Venue: Burachigan

SL. No	Name	Designation	Contact Number	Signature
1	Murunddin Ali		8082970934	
2	Ismail Ali		9864883253	 L.T.I of Ismail Ali
3	Bakkar Ali		9707130270	 L.T.I of Bakkar Ali
4	Anwar Hussain		6880921318	 L.T.I of Anwar Hussain
5	Gofur Ali			 L.T.I of Gofur Ali
6	Jamar Ali		9365701362	
7	Anwara Begum		৯৬৩ ০১৬৫৭৩৭৮	
8	Sahar Bannu.			
9	Meena Begum.			
10	Merigahan Begum.			
11	Jamira Khatun.			
12	Murzumal			
13	Gulapri			 L.T.I of Gulapri

Assam Intra-State Transmission System Enhancement Project, Phase-1

Attendance sheet of training programme on Grievance Redressal Mechanism of Tier-1 to PIU officials



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendant Sheet of PMU/PIU officials

Training Program on Grievance Redressal Mechanism of Tier - 1

Date: 01/08/2022

Office of the SE/DGM,
UAT & T Circle, AEGL,
Garmut, Jorhat - 7

Sl. No	Name	Designation	Contact Number	Signature
1.	Debashis Basman	AGM, Mariani	9707555343	
2.	Anchan Goswami	AGM, Jorhat	94357-42176	
3.	Abhijit Gogoi	JM	9435399455	
4.	Borenali Gogoi	DM/RE Golaghat	7002367474	
5.	Bhargab Hazarika	DM, Mariani Circle	9678226583	
6.	Mausum Layan Deha	DM(E), T&T Div. AEGL, Jorhat	98545-59653	
7.	Gourtan Bara	DM/RE, Bongaigaon	8638030205	
8.	Dipangkur Dutta	AM/RE, Sevoke Road	7002175256	
9.	Chitranjib Thakson	JM(C), Mariani	9101879256	
10.	Debayyot Saikia	AM, T&T Circle, Jit.	9678003053	
11.	Khamin Borishya	Social Safeguards Exp	9864223185	
12.	Bigit Borah	Environment Investigation officer	7002852186	
13.	Kaushik Das	Social Investigation officer	60016-18055	

Assam Intra-State Transmission System Enhancement Project, Phase-1



PT FEEDBACK
Making Infrastructure Happen

ASSAM INTRA- STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT
Attendant Sheet of PMU/PIU officials

Training program on Grievance Redressal Mechanism of Tier-1

Date: 12/9/2022

Venue: Office of the D.G.M., Bongaigaon TBT Circle

Sl. No	Name	Designation	Contact Number	Signature
01	Utpal Nangary	DGM	9864314383	
02	Subrata Biswas	AGM	84738-94987	
03	Uttam Debmaity	AGM	7002985714	
04	Bodhaditya Roy	Enr. Ssgment. Officer PMU	9706663284	
05	Dhritiman Dutta Baruah	AM	8011925974	
06	Niloy Modak.	JM(C)	8876615060	
07	Rajesh Kr. Das	DM	9957165398	
08	Subha Chatterjee	JM(E)	7002337496	
09	Byaj Boardletoli Basumatary	JM(E) Marmora/1/c	7576846545	
10	Rajib Das	AM	7099509935	
11	Khanin Beishya	Socially Engaged Enr. PMU	9864223185	
12	MAYUR CHOUDHARY	OPGW Engg.	9922777446	
13	Aban Kumar	OPGW Executive	9729046398	
14	Kaushik Das	Social Investigation Officer	60016-18055	

Assam Intra-State Transmission System Enhancement Project, Phase-1

Attendance sheet of training programme on Environment, Health and Safety & Social aspect



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendance Sheet: Training Program on Environmental, Health, Safety and Social aspect

Date: 1/08/2022

Venue: Feedback Infra Pvt. Limited, Guwahati office

SL. No	Name	Designation	Contact Number	Signature
1	Dibyajyoti Baruah	Ex SS Safeguard Specialist PMU - NEERI	9856339228	Dibyajyoti Baruah 01/08/2022
2	Dr. Sandipan Das	Sr. Environmental Expert, PMC	8750320755	Dr. Sandipan Das 01.08.2022
3	Bhaskar Boruah	Safety Officer (Pkg - J)	7896069869	Bhaskar Boruah
4	Bhanti Das.	HSE officer (Pkg - C)	8638425820	Bhanti Das.
5	Bichitran Dutta	Safety officer (Pkg - A)	9864752527	Bichitran Dutta
6	Md. Haddish	EHS Officer (Pkg - B)	9340748194	Md. Haddish
7	Souvar Basu	EHS Officer (Pkg - E)	8967588541	Souvar Basu
8	MANISH KUMAR	EHS Officer (Pkg - E)	9340529616	Manish Kumar
9	Jurishmita Deka	Env. Investigation officer (PMC)	7002730427	Jurishmita Deka
10	Rahul Kumar Gupta	Social investigation officer (PMC)	9472736118	Rahul Kumar Gupta
11	Pankaj Mili	Env. Investigation officer (PMC)	8486269201	Pankaj Mili

Assam Intra-State Transmission System Enhancement Project, Phase-1



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendance Sheet: Training Program on Environmental, Health, Safety and Social aspect

Date: 08/08/2022

Venue: 220/132 KV, Sankaralev - Nagla

SL. No	Name	Designation	Contact Number	Signature
01	Dr. Sandipam Das	Sr. Environmental Expert	8750320755	1-8-2022
02	Ved P. Pandey	Project engg.	7874471957	
03	Muratafa Ahmed	Store Incharge	74108647062	
04	MANISH KUMAR	EHS officer	9340129616	
05	Longbitam Longpi	JM	7896622543	
06	Nepos Thowson	Security	8638387731	
07	Kitai Rajuwar	Labour		
08	Santaram Rajuwar	"		
09	Krishna Kormokar	"		
10	Ashok Kormokar	"		
11	Rinku Shrivastava	"	7002235588	
12	Rijit Borah	Environment Investigation officer	7002852186	
13	Rahul Kumar Gupta	Social investigation officer	9432736119	
14				

Assam Intra-State Transmission System Enhancement Project, Phase-1



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendance Sheet: Training Program on Environmental, Health, Safety and Social aspect

Date... 09/09/2022

Venue... P.M.L. Office, Rehobaru (G.H.)

SL. No	Name	Designation	Contact Number	Signature
1	Sumit K. Gunda (Pkg-I)	Safety Engineer	8093460363	<i>[Signature]</i>
2	RAKESH MANNA (Pkg I)	Project Incharge	9007616615	<i>[Signature]</i>
3	Ritanandan Barui (Pkg I)	EHS officer	7980680278	<i>[Signature]</i>
4	Bhaskar Boruah Package-(I)	Safety officer	7896069869	<i>[Signature]</i>
5	Satyam Roy Package-M	EHSO	9304417172	<i>[Signature]</i>
6	SUBHAJIT BERA (Pkg-M)	P.M.	9873274132	<i>[Signature]</i>
7	Bodhaditya Roy	Env. Safeguard Officer, PMU	9706663284	<i>[Signature]</i> 09/09/2022
8	Khanin Barishya	Social Safeguard EOP, PMC	9864223181	<i>[Signature]</i>
9	Dh. Sandipam Das	Env. Safeguard Expend, PMC	8750320755	<i>[Signature]</i>
10	Pankaj Mili	Env. Inu. office PMC	8486269207	<i>[Signature]</i>
11	Kaushik Das	Social Investigation officer	60016-18055	<i>[Signature]</i>

Assam Intra-State Transmission System Enhancement Project, Phase-1

Attendance sheet of HIV & AIDS Safety and awareness program



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendance Sheet: HIV & AIDS Safety and awareness program

Date... 01/12/2022

Venue... Chhargam S/S

SL. No	Name	Designation	Contact Number	Signature
1.	Manoj Kumar Rajbhar	Executive Store	7678926274	
2.	MTD. ASLAM	Engineers	7979844617	
3.	md. Hadolish	EHS officer	9340748194	
4.	Sirajul	Labour		
5.	Sirajul	"		
6.	Suleman	"		
7.	Nurul Hoque	"		
8.	Sonabuddin Ali	"		Sonabuddin Ali
9.	Sanidul	"		Sanidul
10.	Ravindra Mondal	"		रविन्द्र मण्डल
11.	Rajat Ali	"		Raj Ali
12.	Raja Kumar	Project Eng.	9877819130	
13.	Kaushik Das	Social Investigation Officer		Kdms

Assam Intra-State Transmission System Enhancement Project, Phase-1

Attendance sheet of Capacity Building Training Program for PMU & PIU on Environment, Health and Safety & Social aspects



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT



Attendant Sheet of PMU/PIU officials

Capacity Building Training Program for PMU & PIU on Environmental, Health, Safety & Social Aspects

Date: 05/09/2022

Venue: MRT Workshop, Kahilipasa

Sl.	Name	Designation	Mail id	Contact Number	Signature
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ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT



Attendant Sheet of PMU/PIU officials

Capacity Building Training Program for PMU & PIU on Environmental, Health, Safety & Social Aspects

Date: 05/09/2022

Venue: MRT Workshop, Kahilipasa

Sl. No.	Name	Designation	Mail id	Contact Number	Signature
11	NAVENJYOTI KULI	DM (F)	navenjyoti.kuli@gmail.com	902749313	N.K.
12	GOUTAM BORA	DM (E)	goutam279@gmail.com	8638030205	G.B.
13	Mahinadur Rahman	A.M (F)	gmahinadur@gmail.com	8638217076	Mahinadur
14	Md. Hasibur Rahman	A.M	hasiburrahman-ans69981@gmail.com	9435594156	Ha
15	Nitika Dasgupta	A.S.M	nitika.dasgupta@gmail.com	7002885719	Nitika
16	Rahul Choudhury	Env. Safeguard Consultant	rahul19822@gmail.com	9864476471	Rahul
17	Rachaditya Roy	Env. Safeguard Consultant, PMU	rachaditya.roy@gmail.com	7706663284/8638981252	Roy 05/09/2022
18	Sukanta Bhattacharya	Social Safeguard Consultant	sukanta.bhattacharya@gmail.com	7002738235	Sukanta 05/09/2022
19	Bandana Sharma	A.M, PPEO, A&S&C	bandana.sharma@gmail.com	9859729012	Bandana
20	Debnirjya Das	DM, Deprn Divn	debnirjya.d@gmail.com	9698409372	Debnirjya

Assam Intra-State Transmission System Enhancement Project, Phase-1



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT



Attendant Sheet of PMU/PIU officials

Capacity Building Training Program for PMU & PIU on Environmental, Health, Safety & Social Aspects

Date.....

Venue.....

Sl. No.	Name	Designation	Mail id	Contact Number	Signature
21	Jaydeep Sarkar	JM	enjoy12@gmail.com	9485706221	
22	Hemurshi Saini	DM	saini.hemurshi@gmail.com	9854738617	
23	Kushal Chyengoi	AGM (Safety)	kushalsec@gmail.com	9706549007	
24	Rangela Bishoi	AGM (Safety)	express2bsham@gmail.com	9435569041	
25	Shaswati Patra	AGM (Safety), LAB	shaswamidpatra@gmail.com	9365831920	
26	Purnam Biswakarma	AGM (CA Comm) Srng	purnam2707@gmail.com	9095492223	
27	Dibyajyoti Baruah	E&S Subgroup Officer	dibyajyoti8d09@gmail.com	9854339228	
28	Bijit Barak	Environment monitoring officer (PMC)	bijitbarak25@gmail.com	9702852186	
29	Rahul Kumar Gupta	Social Investigation Officer (SIC)	rahulkumar1985@gmail.com	9472736115	
30	Kaushik Das	Social Investigation Officer (SIC)	kaushikdas1985@gmail.com	600618055	

Assam Intra-State Transmission System Enhancement Project, Phase-1



ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT

Attendant Sheet of PMU/PIU officials



Capacity Building Training Program for PMU & PIU on Environmental, Health, Safety & Social Aspects

Date.....

Venue.....

Sl. No.	Name	Designation	Mail id	Contact Number	Signature
31	Pankaj Mili	Env. Investigation officer	mili.pankaj.94@gmail.com	8486269120	
32	Hemant Bhave	Team Leader	hbhave.8@gmail.com	8202419879	
33	Khairin Barishya	Social Enquiry Exp, PMU	khairinbarishya@gmail.com	986422135	
34	Dr. Sandipan Das	Environment Expert, PMU	das.sandipan79@gmail.com	8750320755	

*OFFICIAL USE ONLY

Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 3: Sample copy of project site specific Gantt chart (L2 Schedule)

L2 Schedule Cum GANTT Chart of Supply for augmentation of Existing Transmission lines Capacity (Three Lines)by High Temperature Low Sag (HTLS) Conductor: PKG I																																																									
Sl. No.	Item Description	Quantity	Units	Start Date	End Date	Duration	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24									
1	HTLS Conductor with composite Carbon core as per specification requirement						1																																																		
1.01	132 kv BTP(Lalakai)-Dhalgaon line ID/C(pansher Equivalent)	135	KM	August 16, 2021	November 12, 2021	88 days																																																			
1.02	132 kv Gosagaon-Gaurpur line S/C (pansher Equivalent)	196.26	KM	August 16, 2021	November 21, 2021	97 days																																																			
1.03	220 KV Kukumara Sarusajai- D/C (Zebra equivalent)	155	KM	August 16, 2021	November 21, 2021	97 days																																																			
2	Hardware fitting suitable for Offered HTLS Conductor with composite carbon core																																																								
2.01	Single Suspension Hardware Fittings complete for																																																								
2.011	132 kv BTP(Lalakai)-Dhalgaon line ID/C	275	Nos	September 2, 2021	December 20, 2021	109 days																																																			
2.012	132 kv Gosagaon-Gaurpur line S/C	425	Nos	September 2, 2021	December 20, 2021	109 days																																																			
2.013	220 KV Kukumara Sarusajai- D/C	263	Nos	September 2, 2021	December 27, 2021	115 days																																																			
2.02	Single Tension Hardware Fittings complete for																																																								
2.021	132 kv BTP(Lalakai)-Dhalgaon line ID/C	229	Nos	September 2, 2021	December 22, 2021	109 days																																																			
2.022	132 kv Gosagaon-Gaurpur line S/C	260	Nos	September 2, 2021	December 22, 2021	109 days																																																			
2.023	220 KV Kukumara Sarusajai- D/C	379	Nos	September 2, 2021	December 27, 2021	115 days																																																			
2.03	Double Suspension Hardware Fittings complete for																																																								
2.031	132 kv BTP(Lalakai)-Dhalgaon line ID/C	33	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.032	132 kv Gosagaon-Gaurpur line S/C	23	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.033	220 KV Kukumara Sarusajai- D/C	12	Nos	September 2, 2021	December 27, 2021	115 days																																																			
2.04	Double Tension Hardware Fittings complete for																																																								
2.041	132 kv BTP(Lalakai)-Dhalgaon line ID/C	80	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.042	132 kv Gosagaon-Gaurpur line S/C	83	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.043	220 KV Kukumara Sarusajai- D/C	73	Nos	September 2, 2021	December 27, 2021	115 days																																																			
2.05	Single Suspension Pilot Insulator String for																																																								
2.051	132 kv BTP(Lalakai)-Dhalgaon line ID/C	18	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.052	132 kv Gosagaon-Gaurpur line S/C	9	Nos	September 2, 2021	December 12, 2021	109 days																																																			
2.053	220 KV Kukumara Sarusajai- D/C	24	Nos	September 2, 2021	December 27, 2021	115 days																																																			
3	Dead end Assembly																																																								
3.011	132 kv BTP(Lalakai)-Dhalgaon line ID/C	31	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.012	132 kv Gosagaon-Gaurpur line S/C	31	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.013	220 KV Kukumara Sarusajai- D/C	31	Nos	September 2, 2021	December 27, 2021	115 days																																																			
3.02	Vibration Damper for																																																								
3.021	132 kv BTP(Lalakai)-Dhalgaon line ID/C	318	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.022	132 kv Gosagaon-Gaurpur line S/C	3290	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.023	220 KV Kukumara Sarusajai- D/C	3002	Nos	September 2, 2021	December 27, 2021	115 days																																																			
3.03	Jumper socket for																																																								
3.031	132 kv BTP(Lalakai)-Dhalgaon line ID/C	318	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.032	132 kv Gosagaon-Gaurpur line S/C	343	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.033	220 KV Kukumara Sarusajai- D/C	453	Nos	September 2, 2021	December 27, 2021	115 days																																																			
3.04	Mid span joint for																																																								
3.041	132 kv BTP(Lalakai)-Dhalgaon line ID/C	20	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.042	132 kv Gosagaon-Gaurpur line S/C	20	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.043	220 KV Kukumara Sarusajai- D/C	20	Nos	September 2, 2021	December 27, 2021	115 days																																																			
3.05	Repair sleeves for																																																								
3.051	132 kv BTP(Lalakai)-Dhalgaon line ID/C	20	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.052	132 kv Gosagaon-Gaurpur line S/C	20	Nos	September 2, 2021	December 12, 2021	109 days																																																			
3.053	220 KV Kukumara Sarusajai- D/C	20	Nos	September 2, 2021	December 27, 2021	115 days																																																			
4	11 KV Antilog porcelain insulator, 70 KN																																																								
4.011	132 kv BTP(Lalakai)-Dhalgaon																																																								

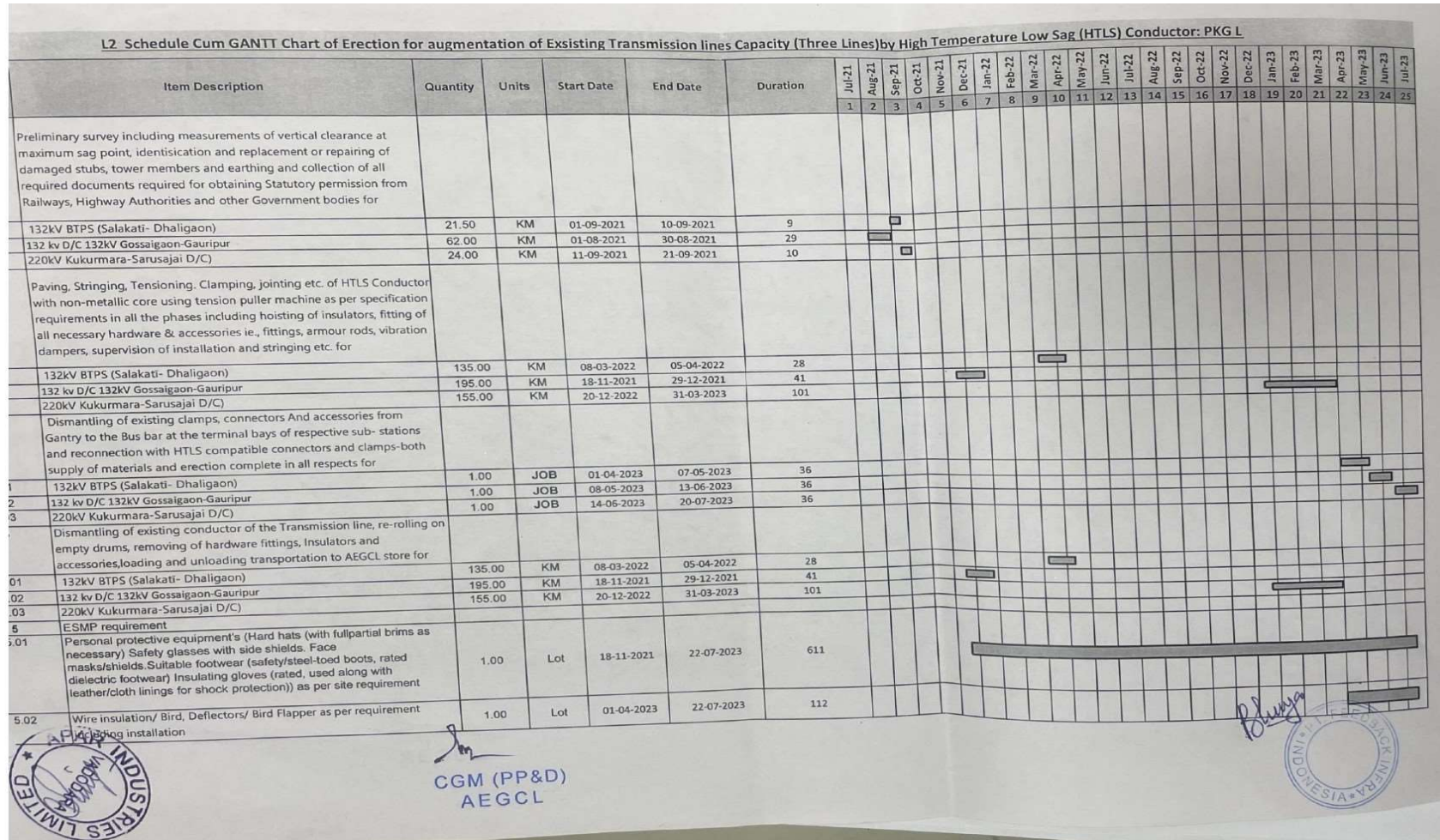


CGMT (P&D)
AEGCL

PT. FEEDBACK INF
INDONESIA

*OFFICIAL USE ONLY

Assam Intra-State Transmission System Enhancement Project, Phase-1



Appendix 4 – Sample copy of Consent to Establish (CTE) of Crusher

**POLLUTION CONTROL BOARD, ASSAM
BAMUNIMAIDAM, GUWAHATI – 21**



No.WB/GUW/T-2126/11-12/51

Dated Guwahati, 15/11/11

1168

"CONSENT TO ESTABLISH"

Provisional "CONSENT TO ESTABLISH" is hereby granted to **M/s. Meghalaya Infra** for setting up a stone chips, grits & stone dust production unit with production capacity 30(thirty) TPH at village Patgaon, P.O. Rani, P.S. Palashbari, Dist. Kamrup (Assam) under the following terms & conditions:-

1. No Air, Water, Soil pollution shall be created by the industry beyond the permissible limits prescribed by the Board. The industry would incorporate adequate pollution control measures before they put the plant into operation.
2. To maintain the environment and ecology in the area provisions for planting selected species of tree within the compound and approaches along with provisions for park, garden and fountain shall have to be made. Massive afforestation will have to be made by the industry in the factory and township if any.
3. As per provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 any officer, employed by this Board on its behalf shall without any interruption, the right at any time to enter the industry for inspection, to take samples for analysis and any call for any information etc. violation of this right will be withdrawal of this permission.
4. As per provisions of the Act, regular monitoring is to be done by the industry from the location/points fixed by the Board and the report to be submitted to the board monthly.
5. Effluent carrying drains must be segregated from storm water drain and effluent must be disposed in effluent pond in no case effluent will be allowed to discharge into nearby nullah/natural water course etc. without treatment and bringing it within permissible limits fixed by the Board.
6. Standard linings on flat embankment of effluent pond shall have to be provided to prevent and control of overflow seepage and leakage of effluent to the nearby areas.
7. To regularise the subsequent, the legal provisions of "Consent to Operate" as per Act and Cess Returns as per Cess Act, 1977 shall have to timely adhered to.
8. Gaseous pollution due to the burning of fuel to run engine boiler, etc. should be controlled by adopting preventive measures adequately.
9. Solid waste that arises during the operation should be properly graded and disposed of scientifically without causing nuisances.
10. For Low lying areas, special care is to be taken by the industry to prevent any overflow, seepage and leakage of effluent.
11. For warning (Alarm, Siren) is to be installed by the unit to guard against accidental pollution/ mishap together with fire fighting devices.

Contd/- 2..

11/11

Assam Intra-State Transmission System Enhancement Project, Phase-1

-2-



12. All pipe connection, Joints; fittings etc. in the factory and plant are to be frequently checked and shall be leak proof all the time.
13. Proper housekeeping and adequate maintenance has to be ensured/ enforced as per provisions of Acts.
14. All unwanted Toxic Chemical/Fluid/Gases are to be neutralized and flared up as necessary.
15. Production process is to be monitored and in the event of danger immediate shut down is to be ensured by the industry.
16. Provisional "CONSENT TO ESTABLISH" has been issued basing on the particulars furnished by the applicant and subject to imposition to further/more conditions if warranted by the subsequent development.
17. Provisional "CONSENT TO ESTABLISH" is valid till the date of commissioning of the unit.
18. Healthy working environment for the worker must be maintained and there should not be health Hazard to the workers for in adequate arrangement for ventilation, dust removal arrangements should be adequate and full proof for the health of the workers. Their health should be regularly monitored.
19. The unit must submit compliance report of action taken on the conditions given by the Board before commissioning the unit.
20. Adequate trees should be planted and maintained in the vacant space of the premises and all around the factory and township if any.
21. The Board will be at liberty to withdraw the "CONSENT TO ESTABLISH" at any time without notice, if necessary steps for prevention of pollution and prevention of environment is not taken by the industry as per mentioned conditions.
22. This issuance of the "CONSENT TO ESTABLISH" does not convey any property right in their real or personal property or any exclusive privileges nor does it authorize any injury to private property nor any invasion right any infringement of Central, State or Local Laws or Regulations.
23. The "CONSENT TO ESTABLISH" does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse except of the works specially instructed herein.
24. All steps are to be taken by the industry to control the dust to that it does not go outside the factory.
25. Water sprinkling arrangement around the periphery to the unit should be installed & while the unit will operate the sprinkler operation should also be operated.
26. The industry is to fully enclose the roll crusher with dust extraction from close to mills.
27. The industry is to provide dust extraction arrangement at all transfer points.
28. The industry is to make water-spraying arrangement for the finer product.
29. The industry will always keep it wet the finer product.
30. Necessary steps are to be made to minimize noise.

N/A

Contd/-3....

-3-



31. The factory must be away from residential areas and as well as 500 M, away from N.H.
32. Proper safe drinking water supply and sanitary facilities are to be provided to the workers.
33. The "CONSENT TO ESTABLISH" is valid from the date of issue of the "CONSENT TO ESTABLISH". The "CONSENT TO ESTABLISH" will be automatically cancelled if the Industry violates this condition.
34. The stone-crushing unit should strictly follow the following standards for suspended particulates matter.

The standards consist of two parts

- i) Implementation of the following pollution control measures:-
 - a. Dust containment cum suppression system for the equipment.
 - b. Construction of wind breaking walls.
 - c. Construction of the metallic roads within the premises.
 - d. Regular cleaning and wetting of the ground within the premises.
 - e. Growing of a green belt along the periphery.
- ii) 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 $600\mu\text{g}/\text{m}^3$.

Sa/-
Member Secretary

Memo No.WB/GUW/T-2128/11-12/51 - A,

Dated Guwahati,


Copy to:

- 1) M/s. Meghalaya Infra, Village - Patgaon, P.O.- Rani, P. S. - Palashbari, Dist. Kamrup (Assam) for information & necessary action. The "CONSENT TO ESTABLISH" is valid subject to fulfillment of above terms & conditions and subject to obtaining necessary permission from other Competent Authorities.
- 2) Deputy Secretary to the Govt. of Assam, Department of Environment & Forest, Dispur, Guwahati - 6 for favour of information.
- 3) Deputy Commissioner, Kamrup District for favour of information.
- 4) The General Manager, DI & CC, Kamrup for favour of information.
- 5) The Sr. Env. Engineer, Regional Office, Guwahati; Pollution Control Board, Assam for information & necessary action. The "CONSENT TO ESTABLISH" is valid subject to fulfillment of above terms and conditions also subject to obtaining necessary permission from other Competent Authorities. This has a reference vide letter No.APCB/ROG/T-3998/11-12/28/423 dtd. 14/10/2011.

hgggc 05.11.11
Member Secretary
h


Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 5 – Sample copy of Consent to Operate of Crusher



pcba

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/Z-1/T-2590/2000-2001/20

Dated Guwahati, the 27th, Dec, 2021

"CONSENT TO OPERATE"

"CONSENT TO OPERATE" (CTO) under Section 21 of Air (Prevention and Control of Pollution) Act, 1981 as amended is granted to-

i) Name of Industry

M/s Rhino Industries

ii) Name of the Occupier

Shri Vivek Agarwal, Partner

iii) Address of Industry

Changmaji Pather, Modortuli, Dist. Hojai (Assam), PIN-782440

iv) Project cost

77.25 (In Lakhs)

Sl No.	Number/Type of Crusher	Capacity
1	Jaw Crusher Primary	40000 MT/Month
2	Jaw Crusher Secondary	40000 MT/Month


Sl. No.	Products in details	Quantity/Capacity
1	Stone Chips	14080 MT/Month
2	Stone Dust	1920 MT/Month

vi) D.G. Set(s) : 2 Nos. 30 KVA & 625 KVA

Terms & Conditions:

1. This CTO has been accorded based on the particulars furnished by the applicant vide Application ID **550307** 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 is made in actual practice.
2. The CTO is valid for a period up to **31.03.2023** unless otherwise suspended or revoked.
3. The CTO may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:-
 - a) Violation of any Terms and Conditions of this CTO,
 - b) Obtaining the CTO by misrepresentation or failure to disclose fully all relevant facts;
 - c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission;
4. The CTO does not authorize any addition, alteration, modification, modernization of processor products without prior permission of the Board.

Contd. .p/2



Assam Intra-State Transmission System Enhancement Project, Phase-1

-2-



5. As per provisions of Water (Prevention & Control of Pollution) Act, 1974, and Air (Prevention & Control of Pollution) Act, 1981 any officer, employed by this Board in its behalf shall have without any interruption, the right at any time to enter the industry for inspection, to take samples for analysis and may call for any information etc.
6. The project proponent must develop a greenbelt/plantation area with native trees covering atleast 33% of the total plot area to develop Green Belt and Carbon Sink.
7. The project authority should install a Display Board as per the Boards notification No. PCBA/LGL-95/2021/Notification/01 dtd.11.11.2021. (Copy enclosed as **Annexure-A**).
8. Permission shall be obtained from the Central Ground Water Authority (CGWA) for the extraction of ground water, if applicable.
9. All pollution control measures shall be properly maintained.
10. Necessary steps are to be made to bring the noise within the prescribed limit as stipulated below:

Category of Area	Limit in dB(A) Leq.	
	Day Time (6:00am-10:00pm)	Night Time (10:00pm-6:00am)
Industrial area	75	70

11. The following pollution control measures shall be implemented by the project authority-
- Dust containment cum suppress system for the equipment
 - Construction of wind breaking wall
 - Construction of metalled road inside the factory premises.
 - Regular cleaning and wetting of ground within the premises.
 - Water sprinkler facility at every dust emitting points to keep the finer product wet
12. The industry must comply with the National Ambient Air Quality Standards as per Schedule - VII under Rule, 3 (3B) of the Environment (Protection) Rules, 1986 as prescribed vide CPCB Notification No. B-29016/20/90/PCI-I dtd. 18.11.2009 (copy enclosed as **Annexure-B**), especially for PM_{2.5} & PM₁₀
13. The unit should strictly follow the **Standards and Guidelines for control of Noise Pollution from Stationary Diesel Generator Sets** as per EPA, 1996 [GSR7, dtd. Dec. 22, 1998] (Copy enclosed as **Appendix - C**).

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

(Shantanu Kr. Dutta)
Member Secretary

Memo No. WB/Z-1/T-2590/2000-2001/20 -A,
Copy to:

Dated Guwahati, the 27th, Dec, 2021

- ✓ M/s Rhino Industries, Changmaji Pather, Modortuli, Dist. Hojai (Assam) for information & necessary action.
- The Commissioner of Industries & Commerce, Assam, Udyog Bhawan, Bamunimaidam, Guwahati-781021 for kind information.
- The General Manager, DI&CC, Hojai District for information.
- The Sr. Env. Engineer, Regional Office, Nagaon, Pollution Control Board, Assam for information & necessary action.

(Shantanu Kr. Dutta)
Member Secretary

Assam Intra-State Transmission System Enhancement Project, Phase-1



Pollution Control Board, Assam
Bamunimaidam, Guwahati-21

NOTIFICATION

No. PCBA/LGL-95/2021/Notification/01 Dated Guwahati, the 11th Nov, 2021

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

The format of the display board is given below:

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

Member Secretary

Memo No. PCBA/LGL-95/2021/Notification/01-A Dated Guwahati, the 11th Nov, 2021
Copy to:

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

Member Secretary

Assam Intra-State Transmission System Enhancement Project, Phase-1



Appendix-B

NATIONAL AMBIENT AIR QUALITY STANDARDS
CENTRAL POLLUTION CONTROL BOARD NOTIFICATION
 New Delhi, the 18th November, 2009

No.B-29016/20/90/PCI-L.—In exercise of the powers conferred by Sub-section (2) (b) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No. 14 of 1981), and in super session of the Notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and Other Area	Ecologically sensitive area (notified by Central Govt.)	
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual*	50	20	• Improved West and Geake
		24 hours**	80	80	• Ultraviolet fluorescence
		Annual*	40	30	• Modified Jacob & Hochheiser (Na-Arsenite)
2	Nitrogen Dioxide (NO ₂), µg/m ³	24 hours**	80	80	• Chemiluminescence
		Annual*	60	60	• Gravimetric
3	Particulate Matter (size less than 10 µm) or PM ₁₀ µg/m ³	24 hours**	100	100	• TOEM
		Annual*	40	40	• Beta attenuation
4	Particulate Matter (size less than 2.5 microns) or PM _{2.5} µg/m ³	24 hours**	60	60	• Gravimetric
		Annual*	40	40	• TOEM
5	Ozone (O ₃) µg/m ³	8 hours**	100	100	• Beta attenuation
		1 hour**	180	180	• UV photometric
		Annual*	0.5	0.5	• Chemiluminescence
6	Lead (Pb) µg/m ³	24 hours**	1.0	1.0	• Chemical method
		Annual*	0.5	0.5	• ASS / ICP method after sampling on EPM 2000 or equivalent filter paper
(1)	(2)	(3)	(4)	(5)	(6)
7	Carbon Monoxide (CO) mg/m ³	8 hours**	2	2	• ED - XRF using Teflon filter
		1 hour**	4	4	Non Dispersive Infra RED (NDIR) Spectroscopy
		Annual*	100	100	• Chemiluminescence
8	Ammonia (NH ₃) µg/m ³	24 hours**	400	400	• Indophenol blue method
		Annual*	5	5	• Gas chromatography based continuous analyser
9	Benzene (C ₆ H ₆) µg/m ³	Annual*	5	5	• Adsorption and desorption followed by GC analysis
		Annual*	1	1	Solvent extraction followed by HPLC / GC analysis
10	Benzo (a) Pyrene (BaP) - particulate phase only ng/m ³	Annual*	1	1	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
		Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
11	Arsenic (As) ng/m ³	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
		Annual*	20	20	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni) ng/m ³	Annual*	20	20	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
		Annual*	20	20	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper

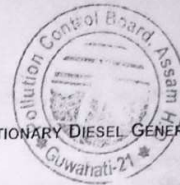
* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

Assam Intra-State Transmission System Enhancement Project, Phase-1

1
APPENDIX – C



1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

(A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should less than $94 + 10 \log 10\text{KVA}$, dB (A), at the manufacturing stage, whether; KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007.

(B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram)

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

Guidelines for the manufacturers Users of DG sets 5KVA and above:

- ❑ The manufacture should offer to the user a standard acoustic enclosure of 25dB (A) Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB (A).
- ❑ The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper siting and control measures.
- ❑ The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- ❑ The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- ❑ Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- ❑ A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

2.44.0 NOISE (AMBIENT STANDARDS)

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 – 1 : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

Note – 2 : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

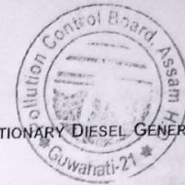
Note – 3 : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.

Source: EPA, 1986
[GSR 7, dated Dec.22, 1998]

Assam Intra-State Transmission System Enhancement Project, Phase-1

1
APPENDIX – C



1.66.0 STANDARDS AND GUIDELINES FOR CONTROL OF NOISE POLLUTION FROM STATIONARY DIESEL GENERATOR (DG) SETS.

(A) Notes standards for DG sets (15-500KVA)

The total sound power level LW of DG set should less than $94 + 10 \log 10\text{KVA}$, dB (A), at the manufacturing stage, whether; KVA is the nominal power rating of a DG set.

This level should fall by 5dB (A) every five years, till 2007, i.e. in 2002 and then in 2007

(B) Mandatory Acoustic enclosure/Acoustic treatment of room for stationary DG sets (5KVA and above):

Noise from the DG set should be controlled by providing an acoustic enclosure on by treating the room acoustically.

The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB (A) insertion Loss or for meeting the ambient noise standards, which ever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/acoustic treatment. Under circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion Loss may be done at different points at 0.5 from the acoustic enclosure/room, and then averaged. (See the Schematic Diagram)

The DG set should also be provided with proper exhaust muffler with Insertion Loss of minimum 25 dB (A).

Guidelines for the manufacturers Users of DG sets 5KVA and above:

- ❑ The manufacture should offer to the user a standard acoustic enclosure of 25dB (A) Insertion Loss and also a suitable exhaust muffler with Insertion Loss of 25dB (A).
- ❑ The user should make efforts to bring down the noise levels due to the DG set, outside his premises, within the ambient noise requirements by proper siting and control measures.
- ❑ The manufacturer should furnish noise power levels of the unsalaried DG sets as per standards prescribed under (A).
- ❑ The total sound power level of a DG set, at the user's and, shall be within 2dB(A) of the total sound power level of the DG set, at the manufacturing stage, as prescribed under (A).
- ❑ Installation of DG set must be strictly in compliance with the recommendation of the DG set manufacture.
- ❑ A proper routines and preventive maintenance procedure for the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

2.44.0 NOISE (AMBIENT STANDARDS)

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 – 1 : Day time is reckoned in between 6.00 A.M. and 9.00 P.M.

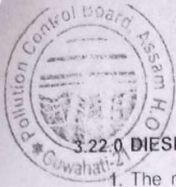
Note – 2 : Night time is reckoned in between 9.00P.M. and 6.00 A.M.

Note – 3 : Silence zone is defined as areas up to 100 meters around such premises as hospitals, educational institutions and courts. The silence zones are to be declared by the competent Authority.

Note – 4 : Mixed categories of areas should be declared as one of the four above mentioned categories by the competent Authority and the corresponding standard shall apply.

Source: EPA, 1986
[GSR 7, dated Dec.22, 1998]

Assam Intra-State Transmission System Enhancement Project, Phase-1



2

Source: EPA, Notification
[GSR 1063 (E), dated Dec., 26, 1998]

3.22.0 DIESEL GENERATOR SETS : STACK HEIGHT

1. The minimum stack height to be provided with each generator set shall be worked out as per the following formula: - $H = h + 0.2 \sqrt{\text{KVA}}$, where H = Total height of stack in meter.

h = Height of the building in meters where generator set is installed.

KVA = Total generator capacity.

Adequate fire fighting measures have to be provided by the occupier of the premises. Based on the above formula the minimum stack height to be provided with different range of generator sets may be categories as follows:

Range of Generator sets	Minimum Stack Height
50 KVA	Ht. of the building + 1.5 metre.
50 - 100 KVA	Ht. of the building + 2.0 metre.
100 - 150 KVA	Ht. of the building + 2.5 metre.
150 - 200 KVA	Ht. of the building + 3.0 metre.
200 - 250 KVA	Ht. of the building + 3.5 metre.
250 - 300 KVA	Ht. of the building + 3.5 metre.

Similarly for higher KVA rating a stack height can be worked out using the above formula.

Source : Evolved by CPCB
[Emission Regulations Part-IV: COINDS/26 1986-87]

4. A.32.0 Part - C

Sl. No. 1 Stack Gas : PM - 150 $\mu\text{g}/\text{Nm}^3$

B. Ambient Air Standards:

Residential Area	Industrial Area	Sensitive Area
SO ₂ : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
NO ₂ : 80* $\mu\text{g}/\text{m}^3$	120* : $\mu\text{g}/\text{m}^3$	30* : $\mu\text{g}/\text{m}^3$
CO : 2.0** $\mu\text{g}/\text{m}^3$	5.0** : $\mu\text{g}/\text{m}^3$	1.0** : $\mu\text{g}/\text{m}^3$

*24 hourly; ** 8 hourly

5. SCHEMATIC DIAGRAM OF D.G. SET IN AN ACOUSTIC ENCLOSURE No. Process/71/1998-99.

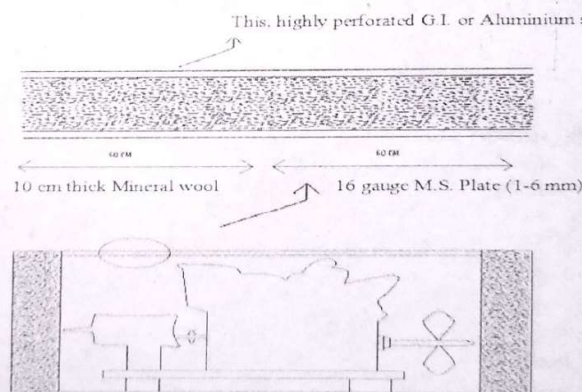



Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

Air required for the ventilation and breathing of the engine will have to be provided by means of intake louvers and exhaust louvers (called parallel baffle mufflers) projecting out of the enclosure.

(Shantanu Kr. Dutta)
Member Secretary
Pollution Control Board, Assam

Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 6 – Sample copy of Environmental Clearance of Stone Quarry


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

No. SEIAA.1237/2020/EC/33 /1500
Dated: 8/9/2021
Proposal No. SIA/AS/MIN/140422/2020

To
✓ Vinod Kumar Kabra,
Nagaon,
P.O. Nagaon,
Dist : Nagaon, Assam

Sub: - Environment Clearance for collection of Stone from "Borjuri P.P. Land No.3 Stone M.C. Area" under Karbi Anglong East Forest Division, Diphu, Dist: Karbi Anglong, Assam by Vinod Kumar Kabra.

This has reference to your application for Environmental Clearance dtd. 22/01/2021 along with Form-1M, Form-1, Mining Plan, D.F.O. letter, land documents and other relevant documents for collection of Stone from "Borjuri P.P. Land No.3 Stone M.C. Area" under Karbi Anglong East Forest Division, Diphu, Dist: Karbi Anglong, Assam.

The quantity of Stone to be collected is:

1. Stone: 1,50,000 (One Lakh Fifty Thousand) cu.m stone from the proposed location within three (3) years and 50,000 (Fifty Thousand) cu.m stone per year.
2. Total Allotted area: 2.67 Ha.

The collection of Stone shall be extracted from the area of the GPS Co-ordinates as per mining plan as mentioned below:

<u>Longitude (East)</u>	<u>Latitude (North)</u>
1. E- 92°57'04.8"	N- 26°23'41.7"
2. E- 92°56'53.3"	N- 26°23'41.1"
3. E- 92°57'04.9"	N- 26°23'44.5"
4. E- 92°56'53.3"	N- 26°23'44.6"

The Stone shall be collection manually/semi mechanized way from "Borjuri P.P. Land No.3 Stone M.C. Area" under Karbi Anglong East Forest Division, Diphu, Dist: Karbi Anglong, Assam.

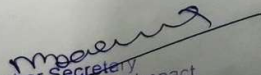
The proposal was examined and processed in accordance with EIA Notification 2006 and its amendment thereof. The State Level Expert Appraisal Committee (SEAC), Assam examined the documents of the proposal for extraction of Stone at its meeting held on 07/08/2021. Accordingly the application was discussed and thoroughly scrutinized by the SEAC and found that the project falls under 1(a) and considered as B₂ Category of EIA Notification 2006 and subsequent amendment. The Committee recommended the project to the SEIAA, Assam for issuance of Environmental Clearance.

Based on the recommendation of the SEAC, the State Environment Impact Assessment Authority, Assam (SEIAA) considered the proposal in its meeting held on 24/08/2021 and accords Prior Environmental Clearance to the project as mentioned above under the provision of EIA notification 2006 and its subsequent amendments issued under Environment Protection Act 1986 subject to compliance of following specific and general conditions.

The operational area of mining must be confined to the given 2.67 Ha area bound by the coordinates mentioned above and there shall not be any other area of mining contiguous to this. The project proponent is to submit a declaration in writing to this effect before commencement of the work.


I. Specific Conditions:

1. The legal status of the mining area remains unchanged.


Member Secretary
State Level Environment Impact
Assessment Authority, Assam.
Bamunimadam, Ghty-21

Page 1 of 4

Appendix 7 – Sample copy of Environmental Clearance of Sand Quarry


GOVERNMENT OF ASSAM
DEPARTMENT OF ENVIRONMENT & FORESTS, ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER: NAGAON DIVISION NAGAON
Phone & Fax No. 03672-233610 Email ID: dfonagaont@gmail.com
Letter No. FNGT/B/74 (Part- I)/Chaparmukh- Kopili Nodi SPA Part- I (BY/2022/2149-50 Dated- 16/03/2022

To,
Sri Imamul Haque,
S/o- Safiqul Haque,
Vill.- Padumonigaon,
P.O.- Kakatigaon, P.S.- Kampur,
Dist.- Nagaon (Assam).

Subject: Provisional letter of Intent (LoI) Granting Mining Permit to allow Minor Mineral in respect of the Mining Area- Chaparmukh- Kopili Nodi Sand Permit Area Part- I (B) of 2021-23 (Rev. Portion).

Reference: The Addl. P. C. C. F (T), UAZ, vide Memo No. FGT. 24/MPA- Chaparmukh- Kopili Nodi Pt- I (B) UAZ/2013-21, dtd. 01/03/2022.

Subject to the appeal provision and other provisions of the Assam Minor Mineral concession Rules, 2013 and other applicable laws, and on approval received from the Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat- 1, of your bid amount of Rs. 78,00,000/- (Rupees Seventy eight lakhs) only, for Mining of 22,000 m3 of Sand for a period of 2 (Two) years from "Chaparmukh- Kopili Nodi Sand Permit Area Part- I (B)" of 2021-23 (Rev. Portion) under Nagaon Range, Nagaon of the Nagaon Forest Division, you are requested to deposit the following amount within 15 (Fifteen) days from the date of issue of this provisional letter of Intent (LoI) and obtain an approved Mining Plan/Pre-feasibility report and Form I M along with EIA Clearance from the competent authority within 45 (Forty Five) days for signing of Permit Agreement in FORM- MPS- I, as per provisions of AMMC Rule's 2013. An additional amount 10% on bid value has to be deposited towards "Mines-Minerals, Rehabilitation Dev. & Restoration Fund" & 10% District Mineral Foundation (DMF), Nagaon on the actual royalty at the time of depositing the kist money. Failing to comply with the above directions within the stipulated period, the provisional letter of Intent (LoI) will be cancelled without assigning any reason.

Details of Deposit:-

(a) 25% of annual dead rent as security deposit on bid value	= Rs.	9,75,000/-
(b) An additional amount equal 1 month's dead rent on bid value	= Rs.	3,25,000/-
Total	= Rs.	13,00,000/-



(Rupees Thirteen Lakhs) only.

(The amount to be deposited through Online Revenue Collection System.

Divisional Forest Officer,
Nagaon Division, Nagaon

Contd...2

Appendix 8– Sample copy of Tree Cutting Permission

 GOVERNMENT OF ASSAM DEPARTMENT OF ENVIRONMENT & FORESTS OFFICE OF THE DIVISIONAL FOREST OFFICER KAMRUP WEST DIVISION :: BAMUNIGAON :: 781141	
<i>E-mail: dfo-kamrup-west@gov.in</i>	
Letter No. B/TIM/ABGCL/ 3093	Dated: 17-6-21
To, The Range In-Charge, Bamunigaon Range, Bamunigaon	
Sub: Permission for clearing of 79 Nos. of trees present in the premises of land allotted for construction of 220/33kV, 2X100 MVA GIS substation at Industrial Growth Center, 2 No. Jamburi & submission of base marking report thereof.	
Ref: (1) This office letter No. B/TIM/ABGCL/2713 dtd. 26.05.2022 (2) Deputy General Manager, Mirza T & T Circle, ABGCL, Mirza letter No. ABGCL/DGM/MIRZA/T&P/Tech-8/2022/116 dtd. 15.06.2022	
<p>With reference to the above, it is to inform you that Assam Electricity Grid Corporation Limited has deposited the compensatory afforestation cost for raising 0.16 Ha plantation amounting to Rs. 39,147.00 (Rupees Thirty nine thousand one hundred forty seven) only against the land allotted for construction of 220/33kV, 2X100 MVA GIS substation at Industrial Growth Center, 2 No. Jamburi and informed this end that the felling can be executed by the field officers of ABGCL under the supervision of staff from this Division. Hence you are hereby directed to depute Md. Nurul Hassan Saikia, Fr-I for this purpose and to ensure that felling should happen as per existing rules and regulation.</p> <p>Furthermore all the logs should be brought to the Range Headquarter for e-auction of the same.</p> <p>This matter may be treated as most urgent.</p>	
<p>(Smti. Dimpri Bora, IFS) Divisional Forest Officer, Kamrup West Division, Bamunigaon.</p> <p> Divisional Forest Officer, Kamrup West Division, Bamunigaon.</p>	
Copy to the Deputy General Manager, Mirza T & T Circle, ABGCL, Mirza for information and necessary action.	

Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 9 – Sample copy of PUC certificate

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By
Government of Assam

Date : 01/12/2022
Time : 11:28:01 AM
Validity upto : 31/05/2023

Certificate SL. No. : AS03100120000587
Registration No. : NL07H8737
Date of Registration : 13/Jan/2015
Month & Year of Manufacturing : July-2014
Valid Mobile Number : *****8060
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : AS0310012
GSTIN :
Fees : Rs.110.00
(GST to be paid extra as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.95

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

Assam Intra-State Transmission System Enhancement Project, Phase-1

Appendix 10 – Sample copy of Medical Tie up

Memorandum Of Understanding (MOU)

Date - 05/12/2022

Participating Parties

1. Godrej & Boyce Mfg. Co. Ltd – We are working here under Assam Electricity Grid Corporation Ltd; in Assam Intra-State Transmission System Enhancement Project at 220/132 KV Grid Sub Station Joy Ma, Gossaigaon, Kokrajhar (Assam).
2. District Civil Hospital (Gossaigaon)

Description Of Collaborative Relationship

Godrej & Boyce Mfg. Co. Ltd and Civil Hospital, Gossaigaon developed this Memorandum of understanding (MOU) to safely execute any medical emergency during project construction period.

This collaboration identifies the following strategies to achieve these goals.

1. During Medical Emergency Ambulance will provide as soon as possible
2. As per requirement and guidance of Hospital Medical Treatment will provide whenever medical treatment required.

For Civil Hospital, Gossaigaon

D.S.D.22
Superintendent
R.N.B. Civil Hospital
Dist. Kokrajhar (Assam)



For Godrej & Boyce Mfg. Co. Ltd