

Environmental and Social Monitoring Report

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Assam Intra-State Transmission System Enhancement Project

Prepared by 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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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 and Planning Framework
ESS	Environment and Social Standard
EIA	Environmental Impact Assessment
GoA	Government of Assam
GoI	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
LOA	Letter of Award
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
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

EXECUTIVE SUMMARY

Assam Electricity Grid Corporation Limited (AEGCL), the State Transmission Utility (STU) of Assam, has received financial support from Asian Infrastructure Investment Bank (AIIB) for implementation of “Assam Intra-State Transmission System Enhancement Project” (AISTSEP) in two phases, Phase-1 & Phase-2 for the execution of Power for All (PFA) plan with a request from the Government of India (GoI) to AIIB for a financial assistance of United States Dollar (USD) 304 million. PT Feedback Infra Limited, Indonesia in Association with Jade Consult Nepal and NIPSA, Spain has been engaged by AEGCL as Project Management Consultant (PMC).

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 proposed project has been assigned to Category B as per AIIB’s project categorization, as substations are not falling under sensitive areas.

The Phase-1 of the project includes: the

- a) construction of 10 new high voltage substations (S/S) (400kV, 220kV and 132kV) along with the associated (332.945 km) transmission lines;
- b) Conversion of one number of existing AEGCL S/S (132/33kV Gohpur) from AIS to GIS; Augmentation of 14 existing substations (By addition of new or replacing old transformer by new higher capacity transformers);
- c) Upgradation of 186 km of transmission lines, re-stringing three numbers {One Single Circuit (S/C) line and two Double Circuit (D/C) lines} by High Temperature Low Sag (HTLS) conductors;
- d) Replacement of existing ground wire to Optical Power Ground Wire (OPGW) for 636 km of transmission lines and S/S equipment at substations. The sub-projects are located in different areas of Assam.

During the reporting period Notice of Award (NOA) has been given to Engineering, Procurement and Construction (EPC) contractors. The final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors was held on 28.06.2021. 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) does not arise at current stage of the project. EPC contractor will submit the detailed sitespecific Health, Safety, Environment and Social Management Plan (HSE&SMP) which includes Health, Safety, Environment and Social Monitoring Plan (ESHSMoP) as per the guidelines of Environmental and Social Management and Planning Framework (ESMPF) to AEGCL and PMC for approval and will comply the same as per requirement under the direct supervision of PMC after their mobilization.

Resettlement Action Plan (RAP) and Tribal People's Plan (TPP) has to be formulated in due course of time.

Capacity Building Programme like trainings/ mock drills/inspections will be conducted in due course of time after mobilization of EPC Contractor.

Accident monitoring will be done in due course of time during implementation.

The following activities were undertaken during reporting time.

- Tier 2 Grievance Redressal Committees (GRC) has been constituted at Head Office of AEGCL and constitution of Tier 1 GRC at Circle level is under process.
- Identified the Project Affected Persons (PAPs) for Rangia S/S.
- Formulated Grievance Redressal Mechanism (GRM), its role and responsibilities.
- Prepared Land Purchase (Willing Buyer and Seller) agreement for 400/220/132/33kV Rangia S/S.
- Prepared and submit sub-project specific Environmental and Social Impact Assessment (ESIA) report for seven numbers of substations.
- Prepared final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors.
- No Grievance received during the reporting period.

There is a vital requirement to expedite the process of finalization of contract agreement with shortlisted Lowest Tender or Lowest Bid (L1) of respective packages.

1.0 Introduction

“Assam Intra-State Transmission System Enhancement Project” (AISTSEP) has been funded by Asian Infrastructure Investment Bank (AIIB). The project has been divided in two phases, Phase -1 & Phase -2 to support the implementation of Power for All (PFA) plan.

AIIB extend a financial assistance of United States Dollar (USD) 365 million (including non-admissible fund) with a request from the Government of India (GoI) to AIIB for a financial assistance of USD 304 million and the balance counterpart funding of USD 61 million from Government of Assam (GoA) for Phase 1 of the project.

Assam Electricity Grid Corporation Limited (AEGCL), as the Implementing Agency (IA) of the Project has planned to operate intra-state transmission system of Assam to generate PFA from Generating Plants of the State as well as from Central Sector Generating Utilities and the power contracted from other sources. In this project AEGCL, the State Transmission Utility (STU) of Assam, owns and operates AISTSEP and is responsible for transmission of electricity to the distribution entity of Assam.

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).

AIIB lists power transmission projects as projects which may have adverse environmental and social impacts and thus, the project has been assigned to Category B. The substations are not falling under sensitive areas. ESS 1 will be applicable to the project and accordingly Environmental and Social Impact Assessment (ESIA) report has been prepared for seven numbers of substations (S/S) namely Nagaon-2, Jakhlabandha, Chhaygaon, Rangia & Kumarikata, Burhigaon, Sonapur and Shankardevnagar. During the reporting period, route surveys are yet to be completed for some of the transmission lines. Environment and Social (E&S) assessment of all transmission lines will be conducted after completion of route survey/check survey along with remaining substations. ESS 2 and ESS 3 has not been triggered in six proposed substations except Rangia & Kumarikata S/S where agricultural land has been purchased within schedule 6 districts named Baksa, Assam through direct purchase of land as per section 7.3.2 of the approved Environmental and Social Management and Planning Framework (ESMPF).

1.1 Brief Project Description

The project scope involves construction of substations and associated transmission lines, augmentation, upgradation and installation of equipment at substations.

The project includes the construction of 10 new 400kV, 220kV and 132kV substations along with the associated (332.945 km) transmission lines; Conversion of one number of existing 132/33kV Gohpur S/S from AIS to GIS; Augmentation of 14 existing substations (replacement of old transformers with new transformers); Augmentation of 186 km of transmission lines, re-stringing three numbers {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 S/S equipment at substations.

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



Figure – 1: Location map of Proposed Project

1.1.1 Details of Substations

Table –1: Details of the proposed substations

Sl. No.	Scope of Work	GPS coordinates of Substation locations	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
1	Establishment of new 220/33kV (2X 100MVA), GIS substation at Bihpuria.	26°59'17.975"N 93°50'14.797" E	Bihpuria / North Lakhimpur	AGM, North Lakhimpur T&T Division, AEGCL.	2	2	Plain	Agricultural land
2	Establishment of new 220/33kV (2X100 MVA), GIS substation at Jakhlabandha.	26°34'22.32"N 92°59'47.50"E	Jakhlabandha / Nagaon	AGM, Nagaon Tower and Transmission (T&T) Division, AEGCL, Amolapatty, Nagaon	2.5	3.16	Plain	Barren
3	Establishment of new 220/33kV (2X100 MVA), GIS substation at Chhaygaon.	26° 2'58.10"N 91°16'33.09"E	Chhaygaon / Kamrup (R)	AGM, Mirza Division AEGCL, Goalpara.	1.33	1.33	Plain	Barren
4	Establishment of new 220/33kV (2X100 MVA), GIS substation at Nagaon-2.	26°22'43.31"N 92°41'45.98"E	Nagaon	AGM, Nagaon T&T Division, AEGCL, Amolapatty, Nagaon	2.63	2.63	Plain	Barren
5	Establishment of new 132/33kV (2X50MVA), GIS substation at Burhigaon.	26°32'39.84"N 92°10'40.71"E	Burhigaon / Darrang	AGM 132kV (GSS) Grid Substation, Depota, AEGCL Tezpur.	0.79	0.79	Plain	Barren
6	Establishment of new	26°34'9.414"N 93°	Khumtai /	AGM, 220kV	6.8	6.83	Plain	Tea

Sl. No.	Scope of Work	GPS coordinates of Substation locations	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
	220/132kV (2X160MVA), GIS substation at Khumtai.	47°10.23"E	Golaghat	Mariani GSS, AEGCL.				Garden land
7	Establishment of new 220/132kV (2X160MVA), GIS substation at Agomoni.	26°28'8.16"N 90° 0'40.55"E	Agomoni / Kokrajhar	AGM, 132kV Dhaligaon GSS, AEGCL	3.6	3.6	Plain	Barren
8	Establishment of new 220/132kV (2X160 MVA), GIS substation at Shankardevnagar.	25°59'13.70"N 92°55'31.56"E	Shankardevnagar / Hojai	AGM, 220kV Samaguri GSS, AEGCL	2	2	Plain	Barren
9	Establishment of new 400/220kV (2X500MVA), GIS substation at Rangia and 132/33kV GIS substation (2X50MVA Transformers) at Kumarikata	26°38'27.86"N 91°36'22.52"E	Tamulpur / Baksa	AGM, Rangia, AEGCL	7.47	8.5	Plain	Agricultural Land
10	Establishment of new 400/220 kV (2X500 MVA), GIS substation at Sonapur	26° 7'55.78"N 91°59'56.80"E	Sonapur / Kamrup (M)	AGM, Kahilipara, AEGCL	1.2	1.2	Plain	Barren

Augmentation of Transformer Capacity

1.	Narengi: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers
2.	Bornagar: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers
3.	Moran: 2X50MVA, in place of 2X16MVA, 132/33 kV Transformers
4.	Gauripur: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers
5.	Dibrugarh: 2X50 MVA, in place of 2X31.5 MVA, 132/33kV Transformers
6.	Depota: 2X50MVA, in place of 2X31.5MVA, 132/33kV, Transformers
7.	Kahilipara: 3X50MVA, in place of 1X31.5MVA + 2X30MVA 132/33 kV, Transformers

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

Sl. No.	Scope of Work	GPS coordinates of Substation locations	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
	(as per ESMPF: Kahilipara: 3x50 MVA, in place of 2x31.5 MVA & 1x30 MVA, 132/33kV)							
8.	Rangia: 2X50MVA, in place of 2X25MVA, 132/33kV, Transformers							
9.	Golaghat: 2X50MVA in place of 2X25MVA, 132/33kV Transformers							
10.	Shankardevnagar: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers							
11.	Kukurmara, 2X50MVA, in place of 1X25MVA + 1X16MVA, 132/33kV Transformers							
12.	Panchgram, 2X50MVA, in place of 2X25MVA, 132/33kV Transformers							
13.	Boko: 1X160MVA + 1X100MVA in place of old 1X50MVA, 220/132kV Transformers {as per supply & dismantling: 1X100MVA is not available in Bill Of Quantities (BOQ)}							
14.	Agia: 1X160MVA + 1X100MVA in place of 1X50MVA + 1X100MVA, 220/132kV Transformers							
Conversion of one existing AEGCL substation (132/33kV) Gohpur From AIS to GIS								

* The figure mentioned in the column of land area is tentative

1.1.2 Details of Transmission Lines

Details of transmission lines are given in Table – 2 below. Detail survey of associated transmission lines of Rangia & Kumarikata and Sonapur substations are to be conducted.

Table – 2: Details of Relevant 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
A. 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) Seherlia Kuhiar Bari 12) Hatimara 13) Sialmari 14) Kulaguri Jarani 15) Bihmari Jarani 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) Balitika 32) Kamala Pathor 33) 1 No. Kolika Guri 34) Kumar Kata 35) 2 No. Kumar Kata 36) 3 No. Kumar Kata

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
					37) Changmara 38) Changmara Guri 39) Major Dolani 40) Khalihamari 41) 1 No. Khalihamari 42) 2 No. Khalihamari 43) Petwa Gusani Than 44) Dhalpur 45) Khana Pichona 46) Sarai Dholani 47) Derguwa 48) 3 No. Tatibahar 49) Jarabari
B. LILO of 220kV Samaguri - Mariani line1 (AEGCL-Existing) at Jakhlbandha (AEGCL-New) S/C line					
2.715	2.715	11	35	3	1) Seconee Pathar 2) Seconee Borhola 3) Barholagaon
C. LILO of 220kV Azara – Boko (AEGCL-Existing) D/C Line at Chhaygaon					
1.619	1.61	9	35	1	Jambari II
D. 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
E. 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) Paschimkamarpara 7) Kamarpara 8) Baruipara 9) Mandalpara 10) Burhigaon
F1. 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				
F2. LILO of 220 kV Mariani- Samaguri (AEGCL-Existing) S/C line 2 at Khumtai (AEGCL-New) - Samaguri (AEGCL-Existing) - S/C Line					
10.621	Cancelled				

Line length (in km) as per ESMFP	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
F3. LILO of 132 kV Jorhat (W)-Bokakhat (AEGCL-Existing) at Khumtai (AEGCL- New) S/C Line					
10.198	10.198				
F4. Khumtai (AEGCL-New) - Sarupathar (AEGCL-Existing) 132 kV S/C Line					
61.205	61.205				
G. 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
H. Shankardevnagar (AEGCL-New) - Misa (AEGCL-Existing) 220 kV D/C Line					
26.457	26.457	97	35		Detailed Survey is under process
I1. LILO of both circuit of 400kV Balipara (PG) - Bongaigaon (PG) DC line with twin Moose ACSR at 400kV Rangia GIS					
21	Survey for finalization of route length is to be conducted				
I2. D/C LILO of 220kV Amingaon- Rangia at Rangia GIS					
20	Survey for finalization of route length is to be conducted				
I3. Kumarikata (AEGCL-New) - Nalbari (AEGCL-Existing) 132 kV S/C Line on D/C Tower at Kumarikata GIS					
40	Survey for finalization of route length is to be conducted				
J. LILO of 1 ckt of 400 kV Silchar (PGCIL) - Byrnihat (Meghalaya) Line at Sonapur GIS (AEGCL-New)					
25	Survey for finalization of route length is to be conducted				
Transmission Capacity Augmentation					
Kukurmara – Sarusajai 220kV D/C line HTLS RESTRINGING					

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	Survey for finalization of route length is under progress				
Gossaigaon – Gauripur 132kV S/C line HTLS RESTRINGING					
62	Survey for finalization of route length is under progress				
BTPS (Salakati) - Dhaligaon 132kV D/C Line HTLS RESTRINGING					
76	Survey for finalization of route length is under progress				
Replacement of Ground Wire to OPGW					
Fiber Optics on transmission lines of AEGCL					
636	636				
Fiber Optics on Station Equipments at 18 numbers of substations					

1.2 Project Progress Status and Implementation Schedule

Table – 3: 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	30%	<p>Site visit of seven numbers of substations namely Nagaon-2, Jakhlabandha, Chhaygaon, Rangia & Kumarikata, Burhigaon, Sonapur and Shankardevnagar substations sites had been conducted from 03.05.2021 to 07.05.2021 for preparation of ESIA report and the draft sub-project specific ESIA report was submitted to AEGCL on 16.06.2021.</p> <p>Sub-project specific ESIA will be finalized after approval from AIIB. Resettlement Action Plan (RAP) and Tribal People’s Plan (TPP) to be formulated in due course of time.</p>
Contract Award	on-going	30%	<p>During the reporting period LOA had been given to following EPC contractors.</p> <p>LOA NO & DATE-</p> <ol style="list-style-type: none"> 1. AEGCL/MD/AIIB/2021/ EXTENSION-I/08 dated 15/02/2021 for 220/33kV Bihpuria GIS and 220/33kV Jakhlabandha GIS to M/S Neccon Power & Infra Ltd. 2. AEGCL/MD/AIIB/2021/ EXTENSION-I/09 dated 15/02/2021 for 220/33kV Chhaygaon GIS and 220/33kV Nagaon-2 GIS to Consortium - M/S R.S Infra projects Pvt. Ltd. & M/S Siemens Ltd 3. AEGCL/MD/AIIB/2021/ EXTENSION-I/16 dated 18/02/2021 for 132/33kV Burhigaon GIS to M/S Siddhartha Engineering Limited JV with M/S New Modern Technomech Pvt. Ltd.

Project Component • Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>4. AEGCL/MD/AIIB/2021/ EXTENSION-I/10 dated 15/02/2021 for Augmentation of Narengi, Kahilipara, Rangia, Kukurmara, Boko substations to M/S Blue Star Ltd.</p> <p>5. AEGCL/MD/AIIB/2021/ EXTENSION-I/13 dated 15/02/2021 for Augmentation of Barnagar, Panchagram, Agia, Gauripur substation to M/S Hi-Tech Corporation (JV with M/S Technical Associates Ltd).</p> <p>6. AEGCL/MD/AIIB/2021/ EXTENSION-I/17 dated 18/02/2021 for Augmentation of Moran, Dibrugarh, Depota, Golaghat, Shankardevnagar substations to M/S Siddhartha Engineering Ltd.</p> <p>7. AEGCL/MD/AIIB/2021 / EXTENSION-I/12 dated 15/02/2021 for Augmentation 132kV D/C Line – 76 km 220kV D/C Line – 48 km 132kV D/C Line – 62 km to M/S Apar Industries Ltd.</p>
Construction (civil works, installation of equipment etc.)	Not yet started	-	-

The project site specific Gantt chart will be included in due course of time after receiving the same from EPC Contractors and approved by AEGCL / Project Management Consultant (PMC).

2.0 Compliance to Applicable Regulations/Standards

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

Table 4: Compliance to Applicable Regulations/Standards

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, Batching Plant (if any) Hot Mix Plant (HMP), if any for implementation of the Project	N/A at current stage of the project.	EPC contractor will submit the compliance of the same as per requirement after their mobilization.
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).	N/A at current stage of the project.	EPC contractor will submit the compliance of the same for any project associated activity like quarry operation as per requirement after their mobilization.
3.	Wildlife Protection Act, 1972	Wildlife Clearance	N/A for S/S locations for which ESIA had been prepared.	Wildlife Clearance may trigger if any S/S and T/L is located within or close to

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}
				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 for which Environmental and Social Impact Assessment (ESIA) had been prepared.	Forest Clearance may trigger if any sub-project S/S and T/L involved. diversion of Transmission Line from the forest land and the same will be obtained as per requirement.
5.	Ancient Monuments and Archaeological sites & Remains Act 1958	Clearance from Archeological department	N/A for S/S locations for which ESIA had been prepared.	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).	N/A at current stage of the project.	EPC contractor will submit the compliance of the same as per requirement after their mobilization.
7.	The Air (Prevention and Control of	Consent to Establish (CTE) and Consent to Operate (CTO) for	N/A at current stage of the project	EPC contractor will submit the compliance of the

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}
	Pollution) Act, 1981	Batching Plant (if any), HMP (if any) for implimenation of the project Ambient Air Quality Standards (AAQS) to be followed and record to be maintained.		same as per requirement after their mobilization.
8.	Noise Pollution (Regulation and Control) Act, 1990 and subsequent Amendments	Ambient Noise Level to be monitored & followed and record to be maintained.	N/A at current stage of the project	EPC contractor will submit the compliance of the same as per requirement after their mobilization.
9.	Wetlands (Conservation and Management) Rules, 2017	Clearance for Wetland	N/A for S/S locations for which ESIA report had been prepared	Clearance for Wetland may trigger if any sub-project S/S and 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		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.	N/A at current stage of the project	EPC contractor will submit the compliance of the same as per requirement after their mobilization.
12.	Solid Waste Management	Generation of Solid Waste during project	N/A at current stage of the	EPC contractor will submit the

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}
	Rules, 2016	implementation.	project.	compliance of the same as per requirement after their mobilization.
13	Construction and Demolition Waste Management Rules, 2016	Generation of Construction and Demolition Waste during project implementation.	N/A at current stage of the project.	EPC contractor will submit the compliance of the same as per requirement after their mobilization.
14	Plastic Waste Management Rules, 2016	Generation of Plastic Waste during project implementation.	N/A at current stage of the project.	EPC contractor will submit the compliance of the same (if any) as per requirement after their mobilization.
15	Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016	Generation of Hazardous and Other Wastes as per (Management & Transboundary Movement) Rules, 2016, if any during project implementation.	N/A at current stage of the project.	EPC contractor will submit the compliance of the same (if any) as per requirement after their mobilization.
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 after their mobilization.
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 off as per requirement in due course.
18	The Building & Other Construction Workers (BOCW)	Regulation of Employment & Conditions of Service during project implementation	N/A at current stage of the project	EPC contractor will submit the compliance of the same as per requirement after

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}
	(Regulation of Employment & Conditions of Service) Act, 1996			their mobilization.
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 proposed, the lands belong to AEGCL and APDCL. The land that is purchased by AEGCL has followed the Rules and Regulations.	Land purchase process is under progress on "Willing Buyer and Seller basis" on negotiated price.
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 for which ESIA had been prepared.	Requirement of consent may trigger if any sub-project S/S and 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.
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	Being complied as per requirement	Location, design and related documents including ESIA are being structured as per the requirement of Electricity Act, 2003.

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}
		taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity to all.		
22	Ministry of Power (MoP) guidelines dated 15 th 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, 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). Land compensation in	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.

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>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.</p> <p>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 the timber wood tree to be compensated at the rate of market price.</p>		
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.	N/A at current stage of the project.	EPC contractor will submit the compliance of the same as per requirement in due course of time.

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

Table 5: 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	<ol style="list-style-type: none"> 1. Tier 2 Grievance Redressal Committees (GRC) has been constituted in the Head Office of AEGCL where the constitutions of Tier 1 GRC at all the Circle level are under process. 2. Meeting with AIIB officials, AEGCL and PT Feedback Infra Limited (PMC) officials regarding finalization of frame of Environmental and Social Management Plan for T/L and S/S of sub-projects. 3. Site visits were conducted for E&S assessment for the preparation of ESIA for substations. 4. Identified the Project Affected Persons (PAPs) for Rangia S/S. 5. Formulated Grievance Redressal Mechanism (GRM), its role and responsibilities. 6. Prepared Land Purchase (Willing Buyer and Seller) agreement for 400/220kV Rangia S/S. 7. Prepared sub-project specific Environmental and Social Impact Assessment (ESIA) report for seven numbers of substations. 8. Prepared final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors.

4.0 Compliance to the Civil Work Contract Agreement

During the reporting period, LOA has been given to EPC contractors. The final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors was submitted on 28.06.2021.

5.0 Compliance to Environmental and Social Management Plan

Compliance to ESMP does not arise at current stage of the project. EPC contractor will submit the detailed site specific Health, Safety, Environment and Social Management Plan (HSE&SMP) as per the guidelines of ESMPF to AEGCL and PMC for approval and will

submit the compliance of the same as per requirement under the direct supervision of PMC after their mobilization.

6.0 Compliance to Resettlement Action Plan and Tribal People's Plan (If any)

Table 6: 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 AEGCL and AIIB the 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.	RAP and TPP to be formulated in due course of time.	Mutual consent between the land owner and requiring body, PMU (AEGCL) has been made and preparation of the other documents pertaining to LA Act 2013 is under process. The price of land has been fixed by the concerned Revenue Circle office and 30% of the total payable amount to the land owners has been paid on 31.05.2021 as advance.
2.	Provisions for Tribal People's (if any) to be made according to the guideline	N/A at this stage.	After identifying and verifying the status of PAPs the measures would be taken accordingly.

7.0 Summary of Monitoring Results

7.1 Environmental and Social Monitoring

Compliance to Environmental and Social Monitoring Plan (ESMoP) does not arise at current stage of the project. EPC contractor will submit the detailed site specific Health, Safety, Environment and Social Monitoring Plan (HSE&SMoP) in their HSE&SMP as per the guidelines of ESMPF to AEGCL/PMC for approval and will submit the compliance of the same as per requirement under the direct supervision of PMC after their mobilization.

7.2 Capacity Building Monitoring

Capacity Building Programme like trainings/mock drills/inspections will be conducted in due course of time after mobilization of EPC Contractor.

7.3 Accident Monitoring

Accident monitoring will be done in due course of time during implementation.

7.4 Highlighted Actions

Following are some of the actions taken during the reporting period.

- GRC had been constituted.
- Identified the PAPs for Rangia S/S.
- Formulated GRM, its role and responsibilities.
- Prepared Land Purchase (Willing Buyer and Seller) agreement for 400/220kV Rangia S/S.
- Prepared sub-project specific ESIA report for seven numbers of substations.
- Prepared final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors.

8.0 Implementation of Grievance Redressal Mechanism and Complaints Received

GRC had been constituted vide office order no- AEGCL/MD/AIIB/Consultant/E&S/2019/Part-1/56 dated: 23.04.2021 at the Head Quarters of AEGCL, Bijuli Bhawan with members to address any sort of grievance related to Environmental & Social matters/issues. Role and responsibilities of the GRM is in pace. No Grievance received during this reporting period.

9.0 Corrective Action Plan

During the reporting period LOA has been given to EPC contractors. There is a vital requirement to expedite the process of finalization of contract agreement with shortlisted Lowest Tender or Lowest Bid (L1) of respective packages.

10.0 Conclusion and Recommendations

LOA has been given to EPC contractors and final contract agreement for Package A, B and C based on the negotiation meeting with EPC contractors has been submitted during reporting period.

Compliance to Applicable Regulations/Standards, Environmental and Social Covenants from the AIIB Loan Agreement is being done.

Compliance to ESMP does not arise at current stage of the project. EPC contractor will submit the detailed site specific HSE&SMP including HSE&SMoP as per the guidelines of ESMPF to AEGCL/PMC for approval and will comply the same along with accident monitoring as per requirement under the direct supervision of PMC after their mobilization.

Resettlement Action Plan and Tribal People's Plan to be formulated in due course of time.

Capacity Building Programme like trainings/drills/inspections will be conducted in due course of time after mobilization of EPC Contractor.

During reporting period, Tier 2 Grievance Redressal Committees (GRC) have been constituted at Head Office of AEGCL and constitution of Tier 1 GRC at Circle level is under process and formulated GRM, its role and responsibilities.

PAPs for Rangia S/S has been identified and prepared Land Purchase (Willing Buyer and Seller) agreement for 400/220kV Rangia S/S.

Sub-project specific ESIA report for seven numbers of substations has been prepared.

Final contract agreement has been prepared for Package A, B and C based on the negotiation meeting with EPC contractors.

During this reporting period, no Grievance has been received.

Finalization of contract agreement with shortlisted L1 bidder of respective packages is needed to be explored immediately.

SITE PHOTOGRAPHS



Photo plate 1 & 2: Site Visit by Environmental and Social team at Proposed S/S area of Jakhlabandha
Date: 4th March 2021



Photo plate 3 & 4: Area along the proposed S/S site of Nagaon – 2
Date: 3rd May 2021



Photo plate 5 & 6: Proposed S/S area of Jakhlabandha
Date: 3rd May 2021



Photo Plate 7: Area of proposed Chhaygaon S/S
Date: 4th May 2021



Photo plate 8: Area of proposed residential colony of Chhaygaon S/S
Date: 4th May 2021



Photo plate 9: Area of proposed Rangia & Kumarikata S/S
Date: 5th May 2021



Photo plate 10: Trees in the toe line of road at proposed Rangia & Kumarikata S/S
Date: 5th May 2021



Photo plate 11: Area of proposed Burhigaon S/S
Date: 6th May 2021



Photo plate 12: Abandoned quarters to be demolished in proposed Burhigaon S/S
Date: 6th May 2021



Photo plate 13: Existing Sonapur S/S
Date: 7th May 2021



Photo plate 14: Area of proposed Sonapur S/S
Date: 7th May 2021



Photo plate 15 & 16: Area of proposed Shankardevnagar S/S
Date: 7th May 2021