

# Environmental and Social Monitoring Report

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Reporting Period: January 2022 to June 2022  
(3<sup>rd</sup> 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**



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

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

**LIST OF ABBREVIATIONS**

AAQS	Ambient Air Quality Standards
AIB	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
GoI	Government of India
GRC	Grievance Redressal Committee
GRM	Grievance Redressal Mechanism
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

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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**

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

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

**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 in 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.

- Advance Payment of Package B-220/33 kV, GIS Substations at Chhaygaon and Nagaon – 2 and its associated Transmissions Lines is released on 24.01.2022. Notice to proceed of Package B is given on 27.01.2022. Effective date is 02.02.2022. Site handover on 02.02.2022.
- Contract have been signed vide AEGCL/MD/AIIB/PACKAGE-E/2021/CON-9 dated 10.01.2022 for Shankardevnagar) to EPC Contractor M/s Godrej & Boyce Mfg. Co. Ltd. Site handover was done on 02.04.2022. Effective Date of Contract is 09.04.2022.
- 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.

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.

CESMP including Traffic Management Plan has been approved by AIIB for package A, B & C on 05.05.2022 and 10.06.2022 for package E respectively. Compliance of the CESMP is being done by EPC contractors under the direct supervision of PMC as per contract requirement.

Abbreviated / Resettlement Action Plan (A/RAP) and Tribal People’s Plan (TPP) for Rangia & Kumarikata S/S has been submitted to AIIB on 31.05.2022.

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

Following are the key findings noted during reporting period.

- Copies of permissions/consents are being submitted by EPC contractors.
- Forest clearance for T/L of package H (Sonapur) is yet to be obtained from Forest Department.
- Tree felling permission is yet to be obtained from Forest Department for Chhaygaon, Jaklabandha and Shankardevnagar.
- Project signboard is yet to be displayed, sufficient numbers of PPE kits is yet be provided, fire extinguisher is yet to be installed, proper labour facility is yet to be provided by EPC contractors.
- In Jaklabandha T/L, out of 57 pattadars in the nine numbers of towers, only 30 pattadars were found during the socio-economic survey. The pattadars records have not been updated in the Jamabandi records by the concern Circle Officer or may expire/ migrated to other District may be the cause that other pattadars were not found in ground.
- EPC contractors are unable to submit land schedule due to monsoon and flood situation in Assam.

Following are the corrective actions to be taken:

- For smooth monitoring, deployment of E&S staff of PMC will be completed by July 2022.
- PMC intends to impart more onsite training on EHS&S – to AEGCL and EPC team member's, which will be planned and completed ongoing basis in every month.
- PIU/PMU expedited the process of Forest clearance for T/L of package H (Sonapur) from Forest Department and the process is under progress and completed before execution of civil work.
- PIU/PMU expedited the process of permission of tree felling from Forest Department for Shankardevnagar and Khumtai S/S, which is under progress and completed before execution of work.
- Survey of T/L with concerned revenue department to finalize the land schedule, which is under progress and will be completed before execution of work.
- Project signboard will be displayed by respective EPC contractors in all project sites, which are under progress and completed before execution of civil work.
- All EPC contractors are advised to provide sufficient PPE kits in all project sites, which are under progress and will be completed by end of July 2022.
- All EPC contractors are advised to provide fire extinguishers in all project sites, which are under progress and will be completed by end of July 2022.
- All EPC contractors are advised to provide proper labour camp facility in all project sites, which are under progress and will be completed by end of July 2022.
- Weekly project site visits are being conducted to monitor Safety and Quality by Key experts of PMC apart from regular monitoring by E&S support staff
- External Safety Audits are being conducted at project sites by PMC' Technical experts, which will be planned and completed ongoing basis.
- Weekly review meetings are being conducted with EPCs in coordination with AEGCL to monitor project activities, status and resolve issues, which will be planned and completed ongoing basis.



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- 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.
  - 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 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.

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 14 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

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

## 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 Appendix-11 of ESMFP (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 kV Bihpuria (New) - Sonabil (Existing) D/C Line – <b>88.324 km</b>	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)	LILLO of 220 kV Samaguri - Mariani line at Jakhlabandha (New) S/C Line – <b>2.715 km</b>			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. Infraprojects Pvt.	Establishment of new 220/33kV (2X100 MVA), GIS substation	LILLO at Nagaon-2 (New) on LILLO at Chhaygaon			Chhaygaon / Kamrup (R)	AGM, Mirza Division AEGCL, Goalpara	1.33	1.33	Plain	Barren	AEGCL (Transferred from IGC, AIIDC)

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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)									
	Ltd. and M/s SIEMNS Ltd.	at Chhaygaon (26° 2'58.10"N 91°16'33.09"E)	on 220kV Azara – Boko (Existing) line – <b>1.61 km</b>	28/07/2021	02/02/2022							
		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 – <b>1.56 km</b>			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 Technomach 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-New) - 11.85 km	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)
D	To be awarded	Establishment of new 220/132kV (2X160MVA), GIS substation at Khumtai	i. LILO of 220 kV Samaguri - Mariani line 1 at	04/05/2022	By First week of July 2022	Khumtai / Golaghat	AGM, 220kV Mariani GSS,	6.8	6.83	Sloppy	Tea Garden land	AEGCL (purchased from Tea Garden)

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

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)									
		(26°34'9.414"N 93° 47'10.23"E)	Khumtai – <b>10.167 km.</b> ii. LILO of 132 kV Jorhat (W) - Bokakhat (Existing) at Khumtai (New) S/C Line – <b>10.198 km</b> ii. 132 kV Khumtai (New) - Sarupathar (Existing) S/C Line – <b>61.205 km</b>				AEGCL.					
E	M/s Godrej & Boyce Mfg. 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)	10/01/2022	09/04/2022	Agomoni / Kokrajhar	AGM, 132kV Dhaligaon GSS, AEGCL	3.6	3.6	Plain	Barren	AEGCL

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

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)									
			Loop In- <b>2.640 km</b> and Loop Out- <b>2.215 km</b>									
		Establishment of new 220/132kV (2X160 MVA), GIS substation at Shankardevnagar (25°59'13.70"N 92°55'31.56"E)	220 kV Sankardevnagar (New)- Misa D/C Line- <b>26.487 km</b>			Shankardevnagar / Hojai	AGM, 220kV Samaguri GSS, AEGCL	2	2	Plain	Barren	AEGCL
F	To be awarded	Conversion of one existing AEGCL substation (132/33kV) Gohpur from AIS to GIS (26052'.12.3" N 93035'.41.2" E)	Not Applicable	Tender evaluation is under progress		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	i. LILO of both circuit of 400kV Balipara (PG) - Bongaigaon	Bid document preparation is under progress	-	Tamulpur / Baksa	AGM, Rangia, AEGCL	7.47	8.34	Plain	Agricultural Land	AEGCL (purchased from Private Owner)

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

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)									
		substation (2X50MVA Transformers) at Kumarikata (26°38'27.86"N 91°36'22.52"E)	(PG) DC line with twin Moose ACSR at 400kV Rangia GIS <b>km</b> Loop Out- <b>0.552km</b> ii. D/C LILO of 220kV Amingaon-Rangia at Rangia GIS Loop In - <b>31.947km</b> Loop Out- <b>35.323km</b> iii. Kumarikata (AEGCL-New) - Nalbari (AEGCL-Existing) 132 kV S/C Line on D/C									

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

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 ESMPPF (in Hectare)	Area at present (In Hectare)	Slope/ Plain	Type of Land	Ownership
		S/S Details	Transmission line details in (km)									
			Tower at Kumarikata GIS <b>36.271 km</b>									
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)	LILo of 1 ckt of 400 kV Silchar (PGCIL) Byrnihat (Meghalaya) Line at Sonapur GIS (AEGCL-New) <b>-19.606km</b>	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 Transformers Kahilipara: 3X50MVA, in place of 1X31.5MVA + 2X30MVA 132/33 kV, Transformers	Not Applicable	06/09/2021	06/12/2021							



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

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)									
		(As per ESMPF: Kahlipara: 3x50 MVA, in place of 2x31.5 MVA & 1x30 MVA, 132/33kV) Rangia: 2X50MVA, in place of 2X25MVA, 132/33kV, Transformers Kukurmara, 2X50MVA, in place of 1X25MVA + 1X16MVA, 132/33kV Transformers Boko: 1X160MVA + 1X100MVA in place of old 1X50MVA, 220/132kV										

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

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 {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, 132/33kV Transformers Panchgram, 2X50MVA, in place of 2X25MVA, 132/33kV Transformers Agia: 1X160MVA + 1X100MVA in place of 1X50MVA + 1X100MVA,	Not Applicable	19/07/2021	06/12/2021							

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

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)									
		220/132kV Transformers Gauripur: 2X50MVA, in place of 2X25MVA, 132/33kV Transformers										
K	M/s Siddhatha Engineering Ltd JV with M/s New Modern Technomach 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	Not Applicable	30/09/2021	06/12/2021							

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

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)									
		Golaghat: 2X50MVA in place of 2X25MVA, 132/33kV 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							

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

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)									
			conductors									
M	M/s Sterlite Power Transmission 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							

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

**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
<b>A1. Bihpuria (AEGCL-New) - Sonabil (AEGCL-Existing) 220kV D/C Line</b>					
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) SeherliaKuhiar 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 48) 3 No. Tatibahar

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

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
					49) Jarabari
<b>A2. LILO of 220kV Samaguri -Mariani line1 (AEGCL-Existing) at Jakhlabandha (AEGCL-New) S/C line</b>					
2.715	2.715	11		3	1) Seconee Pathar 2) Seconee Borhola 3) Barholagaon
<b>B1. LILO of 220kV Azara – Boko (AEGCL-Existing) D/C Line at Chhaygaon</b>					
1.619	1.61	9	35	1	1) 2 No. Jambari
<b>B2. LILO of Samaguri (AEGCL- Existing) –Sarusajai (AEGCL-Existing) 220kV D/C Line at Nagaon-2 (AEGCL-New)</b>					
1.565	1.56	6	35	2	1) Holmare 2) Laogaon
<b>C. LILO of 132 kV Rowta - Sipajhar (AEGCL-Existing) S/C Line at Burhigaon (AEGCL-New)</b>					
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
<b>D1. LILO of 220kV Samaguri - Mariani (AEGCL-Existing) S/C Line 1 at Khumtai (AEGCL-New) - Samaguri (AEGCL-Existing) - S/C Line</b>					
10.167	10.167				
<b>D2. LILO of 132 kV Jorhat (W)-Bokakhat (AEGCL-Existing) at Khumtai (AEGCL- New) S/C Line</b>					
10.198	10.198				
<b>D3. Khumtai (AEGCL-New) - Sarupathar (AEGCL-Existing) 132 kV S/C Line</b>					
61.205	61.205				
<b>E1. Shankardevnagar (AEGCL-New) - Misa (AEGCL-Existing) 220 kV D/C Line</b>					
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 12) Fakira Basti

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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
					13) Alinagar 14) Fatehpur 15) Kathalpur 16) Solmarijan pacchim 17) Dakhin Bhedeoati 18) Changmaji 19) Dighaljar
<b>E2. LILO of 220 kV both ckt of Alipurduar (PGCIL) – Bongaigaon (PGCIL) D/C Line at Agomoni (AEGCL- New)</b>					
2.216	Loop In-2.640 km and Loop Out- 2.215 km	20	35	3	1) Kadamguri - II 2) Anthaibari 3) Dhauliguri
<b>G1. LILO of both circuit of 400kV Balipara (PG) - Bongaigaon (PG) DC line with twin Moose ACSR at 400kV Rangia GIS</b>					
21	Loop In -1.595	6	52	1	1) Kachubari
	Loop Out- 0.552	4	52	2	1) Kachubari 2) Geruapar
<b>G2. D/C LILO of 220kV Amingaon- Rangia at Rangia GIS</b>					
20	Loop In -31.947	113	35	14	1) Khairbari 2) 2 No Nokul 3) Gokhai Holmari 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 11) Hiragata



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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) North Bardal 13) 2No Nokul 14) Khairbari
<b>G3. Kumarikata (AEGCL-New) - Nalbari (AEGCL-Existing) 132 kV S/C Line on D/C Tower at Kumarikata GIS</b>					
40	36.271	131	27	20	1) Ramechubari 2) Hauli 3) Pubhawly 2 No 4) Sarangbari 5) Dighelipar 6) Dimilapar 7) Purba Dimilapar 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
<b>H. LILO of 1 ckt of 400 kV Silchar (PGCIL) - Byrnihat (Meghalaya) Line at Sonapur GIS (AEGCL-New)</b>					
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
<b>L1. Transmission Capacity Augmentation</b>					
<b>Kukurmara – Sarusajai 220kV D/C line HTLS RESTRINGING</b>					
48					
<b>L2. Gossaigaon – Gauripur 132kV S/C line HTLS RESTRINGING</b>					

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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
62					
<b>L3. M.BTPS (Salakati) - Dhaligaon 132kV D/C Line HTLS RESTRINGING</b>					
76					
<b>M. Replacement of Ground Wire to OPGW</b>					
636					

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

## 1.2 Project Progress Status and Implementation Schedule

Table 3: Physical and financial progress status of project during the reporting period

Sr. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 30th June, 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	1.67%	7%
					Construction of 220/33kV, 2X100MVA GIS at Jakhalabandha	5.35%	
					220kV D/C Pabhoi - Bihpuria Transmission Line – 88 Km	6.10%	
					220kV LILO from Samaguri- Mariani (Line-1) Transmission Line at Jakhalabandha GIS– 2.71Km	7.10%	
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	6.90%	7%
					220kV LILO from Mirza - Boko Transmission Line at Chaygaon GIS – 1.61 Km	8%	
					Construction of 220/33kV, 2X100MVA GIS Nagaon-2.	4.95%	
					220kV LILO from Jawahar Nagar - Samaguri Transmission Line at Nagaon 2 – 1.56 Km	2.50%	
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	47.64	Construction of 132/33kV, 2X50 MVA GIS at location (Burhigaon)	12.75%	11%
					132 kV LILO of Siphajhar - Rowta Transmission Line at Burhigaon GIS– 11.85 km	22.82%	
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)	0.3%	7%
					LILO of 220kV Samaguri - Mariani line 1 at Khumtai – 10.16 km.	0%	
					LILO of 132 kV Jorhat (W) - Bokakhat (Existing) at Khumtai (New) S/C Line – 10.19 km	0%	
					132 kV Khumtai (New) - Sarupathar (Existing) S/C Line – 61.20 km	0%	
5	Pkg- E	Effective Date of Contract–	M/s Godrej & Boyce Mfg. Co. Ltd	223.48	Construction of 220/132kV, 2X160 MVA GIS at Sankardevnagar	3.8%	7%

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

Sr. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 30th June, 2022 in %
		09.04.2022 Scheduled Completion Date- 08.04.2025			220kV D/C Transmission Line from Sankardevnagar - Misa S/S -26.45 km	7%	
					Construction of 220/132kV, 2X160 MVA GIS at Agomoni	3.15%	
					220kV LILO of both Circuit of Alipurduar – Bongaigaon (PGCIL) D/C Line at Agomoni GIS– 3 Km	2.5%	
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	61.27	Augmentation / Upgradation of 132/33 kV Substations at: i. Narengi ii. Kahlipara iii. Rangia iv. Kukurmara v. Boko vi. Nalbari	8.35%	7%
10	Pkg- J	Effective Date of Contract– 06.12.2021 Scheduled Completion Date- 06.12.2023	M/s Hi-Tech Corporation JV with M/s Technical Associates Ltd (JV Partner)	42.7	Augmentation / Upgradation of 132/33 kV Substations at: i. Bornagar ii. Panchgram iii. Gauripur iv. Hailakandi Augmentation / Upgradation of 220/33 kV Substation at Agia	57.40%	29%
11	Pkg- K	Effective Date of Contract– 06.12.2021 Scheduled	M/s Siddhartha Engineering Private Ltd.	43.98	Augmentation / Upgradation of 132/33 kV Substations at: i. Dibrugarh ii. Depota iii. Golaghat	23.90%	7%

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

Sr. No.	Pkg No.	Effective/ Schedule Completion date	Agency	Order Value (INR Cr.)	Sub Station/ Transmission Line Name	Overall Progress	Financial Progress till 30th June, 2022 in %
		Completion Date- 06.12.2023			iv. Rowta v. Moran vi. Samaguri vii. Sarusajai		
13	Pkg- L	Effective Date of Contract- 14.08.2021 Scheduled Completion Date- 14.08.2023	M/s Apar Industries Ltd	97.82	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	91.49%	7%
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 Jakhlabandha 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	36.40%	7%

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

**1.3 Brief progress status of project**

Brief progress status of 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	80%	<ul style="list-style-type: none"> <li>• Site visit was conducted on 05.01.2022 at Chhaygaon to evaluate the present condition and to understand tree enumeration by Forest Department/AEGCL/ EPC Contractor for 220/33kV (2X100 MVA), GIS substation at Chhaygaon.</li> <li>• Site visit was conducted on 06.01.2022 for Source approval of Construction Materials (Civil activities) for Establishment of New 132/33 kV (2 X50 MVA) GIS Substation at Burhigaon.</li> <li>• Meeting (through Tele-conference) with AIIB, AEGCL and PMC on project issues &amp; progress held on 20.01.2022.</li> <li>• Submission of draft EHS Training Module on 29.01.2022 for onward submission to AIIB.</li> <li>• Submission of draft GRM Training Module by PMC to AEGCL on 29.01.2022 for onward submission to AIIB.</li> <li>• Meeting (through Tele-conference) with AIIB, AEGCL and PMC regarding comments on ESIA &amp; ESMP held on 27.01.2022.</li> <li>• Submission of draft Social Training Module by PMC to AEGCL on 29.01.2022 for onward submission to AIIB.</li> <li>• Site visit was conducted on 01.02.2022 at Shankardevnagar Substation and Sonapur Substation along with its approach road regarding Public Consultation for ESIA-ESMP update.</li> <li>• Site visit was conducted on 05.02.2022 at Jakhalabandha Substation to witness monitoring/sampling of ambient air quality, noise level, water &amp; soil quality carried out by EPC Contractor.</li> <li>• Submitted updated ESIA-ESMP for 7 S/S report to AIIB on 08.02.2022.</li> <li>• Site visit was conducted on 25.02.2022 at Burhigaon Substation site under Package C to witness the tests for ambient air quality, noise level, water &amp; soil quality carried out by EPC Contractor.</li> </ul>

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

Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<ul style="list-style-type: none"> <li>• Site visit was conducted on 28.02.2022 at Chhaygaon Substation site under Package B to witness the tests on ambient air quality, noise level, water &amp; soil quality carried out by EPC Contractor.</li> <li>• Draft Contractor's Environmental &amp; Social Management Plan (CESMP) submitted by EPC contractors on 03.03.2022 for package E.</li> <li>• Site visit was conducted on 04.03.2022 at Nagaon-2 Substation to witness Environmental Quality Monitoring Tests carried out by EPC Contractor.</li> <li>• One-time financial assistance provided to 7 (seven) nos. of non-titleholders of Nagaon-2 SS through Nagaon T&amp;T Division on 04.03.2022.</li> <li>• Draft Contractor's Environmental &amp; Social Management Plan (CESMP) submitted by EPC contractors on 10.03.2022, 23.03.2022 and 01.04.2022 for package B, A and C respectively.</li> <li>• Site visit was conducted on 08.04.2022 at Shankardevnagar Substation (Pkg-E) regarding ESIA.</li> <li>• Site visit was conducted on 11.04.2022 at Jakhlabandha Substation (Pkg-A) regarding update of Traffic Management Plan of Earth Filling as per E&amp;S compliance norms of AIIB.</li> <li>• Site visit was conducted on 12.04.2022 at Chhaygaon Substation (Pkg-B) regarding update of Traffic Management Plan of Earth Filling as per E&amp;S compliance norms of AIIB.</li> <li>• Site visit was conducted on 13.04.2022 at Nagaon-2 Substation (Pkg-B), Burhigaon Substation (PKG-C) and Shankardevnagar Substation (Pkg-E) regarding update of Traffic Management Plan of Earth Filling as per E&amp;S compliance norms of AIIB.</li> <li>• Revised CESMP including TMP for Package A, B &amp; C has been submitted to AIIB on 26.04.2022 and Package E submitted on 28.04.2022.</li> <li>• ESIA –ESMP report for 5 Substations (Pkg A - Jakhlabandha, Pkg B -Nagaon-2 &amp; Chhaygaon, Pkg C- Burhigaon and Pkg E- Shankardevnagar) submitted to AIIB on 02.05.2022 for uploading.</li> <li>• Table of Contents for ESIA-ESMP of Transmission Line and Approach Methodology submitted to AIIB on 06.05.2022.</li> <li>• Site visit was conducted on 05.05.2022 at Rangia</li> </ul>

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

Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>to conduct socio-economic census survey and public consultation with 32 Project Affected Persons (PAPs) for construction at Rangia and Kumarikata GIS substations (Pkg- G).</p> <ul style="list-style-type: none"> <li>• Site visit was conducted on 11.05.2022 for identification of quarry area for borrowing earth for landfilling of 400/220 kV GIS substation at Sonapur Substation (Pkg-H) and to the Forest Range office, Sonapur to obtain checklist for Forest Clearance.</li> <li>• The Formats and workflow for Forest Clearance (Stage – I) were submitted by PMC to AEGCL on 24.05.2022 for onward submission to AIIB.</li> <li>• Draft checklists for E&amp;S submitted by PMC to AEGCL on 21.06.2022 for onward submission AIIB.</li> <li>• Summary for Disclosure of CESMP – Pkg A, B, C &amp; E submitted to AIIB during the reporting period which will be disclosed by respective EPC contractors to the local community people in the form of leaflet and during consultation after comments/approval from AIIB.</li> <li>• Format for Forest clearance and Traffic Management Monitoring Plan Checklist submitted PMC to AEGCL on 15.05.2022 for onward submission to AIIB.</li> <li>• Site visit was conducted on 24.05.2022 to Sonapur Substation for preparation of Traffic Management Plan (Pkg- H).</li> <li>• Site visit was conducted on 26.05.2022 to Rangia &amp; Kumarikata Substations for preparation of Traffic Management Plan (Pkg- G).</li> <li>• Traffic Management Plan for Pkg- G (Rangia &amp; Kumarikata) and Pkg- H (Sonapur) Substations submitted to AIIB on 31.05.2022.</li> <li>• ESIA-ESMP Report for Pkg –G (Rangia &amp; Kumarikata) and Pkg- H (Sonapur) Substations submitted to AIIB on 31.05.2022.</li> <li>• Site visit was conducted on 07.06.2022 to assess the Environmental and Social Impacts Assessment of Transmission Lines at Jakhalabandha Substation (Pkg-A).</li> <li>• Site visit was conducted on 08.06.2022 to monitor the Environmental, Health &amp; Safety Standards at Chhaygaon Substation (Pkg-B).</li> <li>• Site visit was conducted on 10.06.2022 to monitor the Environmental, Health &amp; Safety Standards at Burhigaon Substation (Pkg-C).</li> <li>• Site visit was conducted on 10.06.2022 to conduct</li> </ul>



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

Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			<p>socio-economic census survey &amp; public consultation with seven (7) non-title holders (Project Affected Persons) who cultivated crops temporarily in the Nagaon-2 Substation area (Pkg-B).</p> <ul style="list-style-type: none"> <li>• Site visit was conducted on 21.06.2022 to monitor the Environmental, Health &amp; Safety Standards at Burhigaon Substation (Pkg-C).</li> <li>• Site visit was conducted on 21.06.2022 to monitor the Environmental, Health &amp; Safety Standards at Chaygaon Substation (Pkg-B).</li> <li>• Site visit was conducted on 23.06.2022 to monitor the Environmental, Health, Safety Standards and Social Aspects at Chaygaon Substation (Pkg-B).</li> <li>• Site visit was conducted on 24.06.2022 to monitor the Environmental, Health, Safety Standards, Social Aspects and to Witness Tree Cutting by Forest Department Officials at Chaygaon Substation (Pkg-B).</li> <li>• Site visit was conducted on 24.06.2022 to monitor the Environmental, Health and Safety Standards at Burhigaon Substation (Pkg-C).</li> <li>• Resubmit Training Modules on Safety aspects submitted to AIIB on 17.06.2022.</li> </ul>
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., which is pending due to flood situation in Assam.
Contract Award	On-going	75%	<ul style="list-style-type: none"> <li>• Advance Payment of Package B-220/33 kV, GIS Substations at Chhaygaon and Nagaon – 2 and its associated Transmissions Lines is released on 24.01. 2022. Notice to proceed of Package B is given on 27.01.2022. Effective date is 02.02.2022. Site handover on 02.02.2022.</li> <li>• Contract have been signed vide AEGCL/MD/AIIB/PACKAGE-E/2021/CON-9 dated 10.01.2022 for Shankardevnagar) to EPC Contractor M/s Godrej &amp; Boyce Mfg. Co. Ltd. Site handover was done on 02.04.2022. Effective Date of Contract is 09.04.2022.</li> <li>• Contract signed on 04.05.2022 vide AEGCL/MD/AIIB/PACKAGE-D/2021/CON-9, site handed over to EPC Contractor M/s RS</li> </ul>

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Project Component Stage	Progress Status {not yet started; on-going; completed}	Percent Completed	Remarks
			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. Evidence of the above activities is Annexed as <b>Appendix 1 &amp; 2.</b>
Construction (civil works, installation of equipment etc.)	Boundary Wall works initiated during 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"> <li>Draft ESIA-ESMP for S/S Submitted to AIIB on 19.05.2022 by AEGCL.</li> <li>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.</li> </ul>
	Jakhlabanda		<ul style="list-style-type: none"> <li>Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>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.</li> <li>Approval received from AIIB on 30.04.2022.</li> <li>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</li> </ul>

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Pkg no	Location	Name of the EPC contractor	Status of ESIA-ESMP
			in Assam.
B	Chayagaon	Consortium of R.S. Infraprojects Pvt. Ltd. and M/s SIEMNS Ltd.	<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• 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.</li> <li>• Approval received from AIIB on 30.04.2022.</li> <li>• 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.</li> </ul>
	Nagaon 2		<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• 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.</li> <li>• Approval received from AIIB on 30.04.2022.</li> <li>• 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.</li> </ul>
C	Burhigaon	M/s Siddhatha Engineering Ltd JV with M/s New Modern Technomech Ltd.	<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• 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.</li> <li>• Approval received from AIIB on 30.04.2022.</li> <li>• 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.</li> </ul>
D	Khumtai	M/s R. S. Infraprojects Pvt. Ltd. JV with M/s Parth Electricals	<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 19.05.2022 by AEGCL.</li> <li>• Approval received from AIIB on 27.06.2022</li> <li>• 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.</li> </ul>

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

Pkg no	Location	Name of the EPC contractor	Status of ESIA-ESMP
E	Agomoni	M/s Godrej & Boyce Mfg. Co. Ltd.	<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 19.05.2022.</li> <li>• Approval received from AIIB on 27.06.2022.</li> <li>• 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.</li> </ul>
	Shankardev Nagar		<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• 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.</li> <li>• Approval received from AIIB on 30.04.2022.</li> <li>• 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.</li> </ul>
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"> <li>• ESIA &amp; ESMP report preparation is under progress</li> </ul>
G	Rangia		<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• Revised ESIA-ESMP for S/S Submitted to AIIB on 31.05.2022 by AEGCL.</li> <li>• Approval received from AIIB on 27.06.2022.</li> <li>• 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.</li> </ul>
	Kumarikata		
H	Sonapur		<ul style="list-style-type: none"> <li>• Draft ESIA-ESMP for S/S Submitted to AIIB on 14.07.2021 (1st draft) and on 08.02.2022 (revised).</li> <li>• Revised ESIA-ESMP for S/S Submitted to AIIB on 31.05.2022.</li> <li>• Approval received from AIIB on 27.06.2022.</li> <li>• 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.</li> </ul>
I	Narengi	M/s BLUE STAR Ltd.	<ul style="list-style-type: none"> <li>• E&amp;S Audit Checklist Submitted to AIIB on 28.12.2021.</li> <li>• Approval received from AIIB on 25.03.2022.</li> </ul>
	Kahilipura		
	Rangia		

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Pkg no	Location	Name of the EPC contractor	Status of ESIA-ESMP
	Kukurmara		
	Boko		
	Nalbari		
J	Barnagar	M/s Hi-Tech JV with M/s TAL Ltd.	<ul style="list-style-type: none"> <li>E&amp;S Audit Checklist Submitted to AIIB on 28.12.2021.</li> <li>Approval received from AIIB on 25.03.2022</li> </ul>
	Panchgram		
	Agia		
	Gauripur		
	Hailakandi		
K	Moran	M/s Siddhartha Engineering Ltd	<ul style="list-style-type: none"> <li>E&amp;S Audit Checklist Submitted to AIIB on 28.12.2021.</li> <li>Approval received from AIIB on 25.03.2022.</li> </ul>
	Dibrugarh		
	Depota		
	Golaghat		
	Rowta		
	Samaguri		
Sarusajai			
L	BTPS (Salakati)-Dhaligaon) D/C	M/s APAR Industries Ltd.	<ul style="list-style-type: none"> <li>As this package only involves augmentation-replacement of old existing conductors by HTLS Conductors, E&amp;S Documents submitted on 12.01.2022.</li> <li>Approval on Environmental aspects received from AIIB on 13.01.2022.</li> </ul>
	Kukurmara-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"> <li>ESIA &amp; ESMP preparation is under progress.</li> </ul>
	Fibre optics on Station Equipment 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
<b>E&amp;S staffs of Project Management Unit (PMU)</b>						
1.	Mr. Dibya Jyoti Baruah	Social Specialist	M.A (Economics)	14+ years	9854339228	pd.aiib@aegcl.co.ir 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	8+ years	9864476471	
4.	Mr. Bodhaditya Roy	Environmental Specialist	M. Sc Environmental Science	6+ years	9706663284	
<b>E&amp;S staffs of Project Management Consultant (PMC)</b>						

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

S.No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
1.	Dr.Sandipan Das	Senior Environmental Safeguard Expert	Ph.D. (Life Science), M.Tech - Civil (Environmental Engineering), M.Sc (Botany), Emergency Medical Technician	20+ years	8750320755	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) 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	
<b>E&amp;S staffs of Engineering Procurement and Construction Contractors (as per CESMP)</b>						
<b>Package A (Jakhlabandha &amp; Bihpuria)</b>						
1.	Mr. Rahul Konwar	EHS Officer	Bachelor of Arts, Diploma in Industrial Safety & Fire Engineering	4 years	8638214077	necon@neconpower.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 in Safety & Health	3 years	9706628901	
<b>Package B (Chhaygaon &amp; Nagaon 2)</b>						
1.	Mr. Ashish	EHS	B.Tech	8 + years	8879558934	

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

S.No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
	Singh Gaur	Manager	(Electrical and Electronics) NEBOSH Certification			
2.	Md. Haddish	EHS Officer 1	Bachelor of Arts, 1 year Diploma in Fire & Safety, Certification of IOSH & OSHA	11 + years		site.chaygaon@gmail.com site.nagaon@gmail.com
3.	Under Recruitment	Social Officer				
4.	Mr. Uday Pratap Singh	EHS Officer 2	M.Sc Zoology, Diploma in OHSE&P	3+ years	6209481343	
5.	Under Recruitment	Social officer-2	-	-	-	
6.	Under Recruitment	EHS Supervisor	-	-	-	
7.	Under Recruitment	Social Supervisor	-	-	-	
<b>Package C (Burhigaon)</b>						
1.	Mr. Pankaj Cutia	EHS Officer	Diploma in Fire & Safety	2 Years	9957849923	
2.	Mr. Rajiv Lochan Kalita	Environmental and Social Officer	B. Tech	37 years	9437070382	
3.	EHS Supervisor	Under Recruitment	-	-	-	dn.bhattacharya@selindia.net sk.bhanja@selindia.net
4.	Social Supervisor	Under Recruitment	-	-	-	et
<b>Package D (Khumtai)</b>						
1.	Ashish Singh Gaur	EHS Manager	B.Tech (Electrical and Electronics) NEBOSH Certification	8 years	8879558934	
2.	Mr. Ajit Kumar Yadav	EHS Officer	B.A., Diploma in F&SM	15+ years	9304151579	site.khumtai@gmail.com
3.	Under Recruitment	Social Officer-1	-	-	-	
4.	Under Recruitment	Social officer-2	-	-	-	
5.	Under Recruitment	EHS Supervisor	-	-	-	
6.	Under Recruitment	Social Supervisor	-	-	-	
<b>Package E (Shankardevnagar &amp; Agamani)</b>						
1.	Mr. Manish Kumar	EHS Officer	Bachelor of Science, Diploma in Industrial Safety & IGC NEBOSH	5 years	9340529616	sagnikb@godrej.com
2.	Mr. Ranjan	Labour	B.E. - Electrical	13+ years	9713089110	om

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

S.No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
	kumar Choudhary	Officer				gdgarai@godrej.com
3.	Mr. Sourav Basu	EHS Officer & Labour Officer	Advance Diploma in Industrial Safety	6 years	8967588547	bhaktas@godrej.com
<b>Package F (Gohpur): Bidding under process</b>						
<b>Package G: Bidding under process</b>						
<b>Package H: Bidding under process</b>						
<b>Package I</b>						
1.	Mr. Bibhas Kumar Sen	EHS Regional Manager	B Tech + MBA in HSE	10 Years	7044066770	
2.	Mr. Ritanandan Bairi	EHS Engineer	Diploma in Civil and Diploma in Industrial Safety and NEBOSH certified	10 Years	7980680278	rakeshmanna@bluestarindia.com bibhaskumarsen@bluestarindia.com
<b>Package J</b>						
1.	Mr. Debajit Goswami	EHS officer	Bachelor of Engineering (Chemical)	20 years	9864031458	
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	
4.	Mr. Bhaskar Boruah	Social Supervisor	Graduate in Sociology	6 years	7896069869	kaushikpatni0307@gmail.com
<b>Package K</b>						
1.	Imran Alam	Safety officer	Diploma from NIBOSH in safety	12+ years	9279396999	
2.	Subrat Panigrahi	Social officer	Master in social science	20+ years	9437015019	dn.bhattacharya@selindia.net, sk.bhanja@selindia.net
<b>Package L</b>						
1.	Saurabh kumar singh	Environment , Health and safety officer	Diploma & Graduate	6 Years	8882201522	
2.	Under Recruitment	Social Officer	-	-	-	
3.	Sanad Ghosh	Safety Supervisor	Diploma	4 Years	6371237665	
4.	Habibur Rahman	Safety Supervisor	Diploma	4 Years	9341694992	smukatinath.kumar@apar.com, shiv.yadav@apar.com
<b>Package M</b>						
1.	Satyam Raj	EHSO	Graduate, one year Diploma in EHS and IOSH	4 Years	9304417172	
2.	Ashutosh Singh	Labour Officer	Graduate and one year Diploma in EHS	4 Years	6388380485	subhajit.bera@sterlite.com, parikshit.roy@sterlite.com
3.	To be Named	EHS Supervisor	-	-	-	
4.	To be Named	EHS	-	-	-	



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

S.No	Name	Designation	Qualifications	Experience	Contact Details	Email ID
		Supervisor				

## 2.3 Compliance to Applicable Regulations/Standards

Table 7: 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, 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 <b>Appendix – 4 &amp; 5</b> ) 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 for related to quarry operation is being submitted by EPC contractors (sample for Reference is <b>Appendix – 6</b> ).
3.	Wildlife Protection Act, 1972	Wildlife Clearance	N/A for S/S locations. For T/L,	T/L is located within or close to protected area and the same will be obtained

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

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}
			assessment will be done in due course of time.	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 which Forest Clearance process is under progress. For other T/L, assessment will be done in due course of time.	Forest Clearance may trigger if any T/L involve diversion of forest land and the same will be obtained as per requirement.
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/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). Documentation 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 Crusher, Batching Plant (if any), HMP (if any) for implementation of the project	Being Complied	CTE/CTO of Crusher is being submitted by EPC contractors (Refer <b>Appendix – 4 &amp; 5</b> ) Mixture machine is being used for concreting. Relevant documents are being submitted by EPC contractors.

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

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}
		Ambient Air Quality Standards (AAQS) to be followed and record to be maintained.		
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, equipment, machineries are being submitted by EPC contractors (sample Annexed in <b>Appendix - 7</b> )
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 <b>Appendix - 8</b> ). 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 Equipment.	Being Complied	Fitness certificate/ PUC certificate of vehicles, equipment, and machineries are being submitted by EPC contractors (sample <b>Appendix -9</b> ).
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. Documentation for the same is under process and will be shared in next reporting period.
13.	Construction and Demolition Waste Management Rules,	Generation of Construction and Demolition Waste	Being Complied	Very less amount of C&D waste generated in package A (Jakhlabandha)

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

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	during project implementation.		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, 2016	Generation of Hazardous and Other Wastes as per (Management & Trans boundary 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.
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 off 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	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	Land purchase/ acquisition process completed.

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

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}
		between the Land owner and the requiring Body PMU (AEGCL).	followed the Rules and Regulations.	
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 done in due course of time.	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.
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	During the Power Ministry conference held on April 9 -10, 2015 at Guwahati	NA at current stage.	The Process of giving compensation to the PAPs starts once the EPC contractor will submit their Revenue Village wise Land

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

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}
	toward Temporary damages in regard to ROW.	<p>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).</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</p>		Schedule and verified by the concerned Revenue/Block office.

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

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}
		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 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.

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

**4.0 Compliance to the Civil Work Contract Agreement**

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

CESMP as format provided by AIIB of package A has been submitted on 26<sup>th</sup> April 2022 and approved on 5<sup>th</sup> May 2022 by AIIB.

CESMP as format provided by AIIB of package B has been submitted on 26<sup>th</sup> April 2022 and approved on 5<sup>th</sup> May 2022 by AIIB.

CESMP as format provided by AIIB of package C has been submitted on 26<sup>th</sup> April 2022 and approved on 5<sup>th</sup> May 2022 by AIIB.

CESMP as format provided by AIIB of package E has been submitted on 28<sup>th</sup> April 2022 and approved on 10<sup>th</sup> June 2022 by AIIB.

CESMP as format provided by AIIB of package J has been submitted on 28<sup>th</sup> February 2022 and approved on 3<sup>rd</sup> March 2022 by AIIB.

CESMP as format provided by AIIB of package K has been submitted on 27<sup>th</sup> April 2022 and approved on 10<sup>th</sup> May 2022 by AIIB.

CESMP as format provided by AIIB of package L has been submitted on 27<sup>th</sup> February 2022 and approved on 1<sup>st</sup> March 2022 by AIIB.

**5.0 Compliance to Environmental and Social Management Plan****Key Findings**

Following are the key findings noted during reporting period.

- Copies of permissions/consents are being submitted by EPC contractors.
- Forest clearance for T/L of package H (Sonapur) is yet to be obtained from Forest Department.
- Tree felling permission is yet to be obtained from Forest Department for Chhaygaon, Jaklabandha and Shankardevnagar.
- In Jaklabandha T/L, out of 57 pattadars in the nine numbers of towers, only 30 pattadars were found during the socio-economic survey. The pattadars records have not been updated in the Jamabandi records by the concern Circle Officer or may expire/ migrated to other District may be the cause that other pattadars were not found in ground.
- Project signboard is yet to be displayed, sufficient numbers of PPE kits is yet to be provided, fire extinguisher is yet to be installed, proper labour facility is yet to be provided by EPC contractors.
- EPC contractors are unable to submit land schedule due to monsoon and flood situation in Assam.

**Corrective actions**

Following are the corrective actions to be taken:

- For smooth monitoring, deployment of E&S staff of PMC will be completed by July 2022.
- PMC intends to impart more onsite training on EHS&S – to AEGCL and EPC team member's, which will be planned and completed ongoing basis in every month.
- PIU/PMU expedited the process of Forest clearance for T/L of package H (Sonapur) from Forest Department and the process is under progress and completed before execution of civil work.



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- PIU/PMU expedited the process of permission of tree felling from Forest Department for Shankardevnagar and Khumtai S/S, which is under progress and completed before execution of work.
- Survey of T/L with concerned revenue department to finalize the land schedule, which is under progress and will be completed before execution of work.
- Project signboard will be displayed by respective EPC contractors in all project sites, which are under progress and completed before execution of civil work.
- All EPC contractors are advised to provide sufficient PPE kits in all project sites, which are under progress and will be completed by end of July 2022.
- All EPC contractors are advised to provide fire extinguishers in all project sites, which are under progress and will be completed by end of July 2022.
- All EPC contractors are advised to provide proper labour camp facility in all project sites, which are under progress and will be completed by end of July 2022.
- Weekly project site visits are being conducted to monitor Safety and Quality by Key experts of PMC apart from regular monitoring by E&S support staff
- External Safety Audits are being conducted at project sites by PMC' Technical experts, which will be planned and completed ongoing basis.
- Weekly review meetings are being conducted with EPCs in coordination with AEGCL to monitor project activities, status and resolve issues, which will be planned and completed ongoing basis.

## 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 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	Being Complied	RAP/ARAP is being submitted as per requirement.

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	Act 2013.		
	Provisions for Tribal People's (if any) to be made according to the guideline	Being Complied	IPP/TDP is being submitted as per requirement.

## 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 except 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 ( $\mu\text{g}/\text{m}^3$ ) (Baseline data)	PM2.5 ( $\mu\text{g}/\text{m}^3$ ) (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

**Table 11: Package wise Ambient Noise Level Monitoring Results (Baseline data generated for pre- monsoon season 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 season 2022)	Limits in dB(A) / Night time (Baseline data generated for pre- monsoon season 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

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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 season 2022)	Limits in dB(A) / Night time (Baseline data generated for pre- monsoon season 2022)	
	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
			Night time	Min	<0.01	<60
	<0.01	<60				
	Jaklabandha	05.02.2022	Day Time	Max	<0.01	<60
					<0.01	<60
Night time			Min	<0.01	<60	
				<0.01	<60	
B	Chhayagon	28.02.2022	Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60
	<0.01	<60				
	Nagaon 2	04.03.2022	Day Time	Max	<0.01	<60
					<0.01	<60
Night time			Min	<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
					<0.01	<60
D	Khumtai	05.05.2022	Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60

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Name of Package	Name of Monitoring Station	Monitoring Period/Date	Time	Value	Vibration mm/sec	Limits Vdb {=20 Log10 (Vm/Vr)}
					<0.01	<60
E	Shankardevnagar	04.04.2022	Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60
					<0.01	<60
	Agamoni		Day Time	Max	<0.01	<60
					<0.01	<60
			Night time	Min	<0.01	<60
					<0.01	<60

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

Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 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	–	–

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 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	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/100ml	Absent	Absent	Absent
		Total Coliform	APHA 23 <sup>rd</sup> Edition 2017	MPN/100ml	Absent	Absent	Absent
		Pesticides	APHA 23 <sup>rd</sup> Edition 2017	µg/l	BDL	–	–
		Taste	APHA 23 <sup>rd</sup> Edition 2017	–	Agreeable	Agreeable	Agreeable
		Floating Materials	–	–	Not visible	–	–
		Jaklabandha	pH	IS 3025 part 11 1983 (RA:2017)	–	6.74	6.5-8.5
	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	

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		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/100ml	Absent	Absent	Absent
		Total Coliform	APHA 23 <sup>rd</sup> Edition 2017	MPN/100ml	Absent	Absent	Absent
		Pesticides	APHA 23 <sup>rd</sup> Edition 2017	µg/l	BDL	–	–
		Taste	APHA 23 <sup>rd</sup> Edition 2017	–	Agreeable	Agreeable	Agreeable
		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

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
C		Odour	IS 3025 part 5 1983(RA:2017)	–	Agreeable	Agreeable	Agreeable
		Taste	APHA 23 <sup>rd</sup> 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
		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 <sup>rd</sup> 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

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 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	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	–	–
		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 <sup>rd</sup> 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	–	–



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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 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	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 <sup>rd</sup> Edition 2017	–	Agreeable	Agreeable	Agreeable
E	Shankardevnagar	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	–	–
		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/100ml	Absent	Absent	Absent		

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Total Coliform	APHA 23 <sup>rd</sup> Edition 2017	MPN/100ml	Absent	Absent	Absent
		Pesticides	APHA 23 <sup>rd</sup> Edition 2017	µg/l	BDL		
		Taste	APHA 23 <sup>rd</sup> 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
		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/100ml	Absent	Absent	Absent		
Total Coliform	APHA 23 <sup>rd</sup> Edition 2017	MPN/100ml	Absent	Absent	Absent		

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Package Name	Name of Monitoring Station	Parameters	Method	Unit	Results (Baseline data generated for pre-monsoon season 2022)	IS-10500-2012	
						Requirement (Acceptable Limit)	Permissible Limit in the absence of alternate source
		Pesticides	APHA 23 <sup>rd</sup> Edition 2017	µg/l	BDL		
		Taste	APHA 23 <sup>rd</sup> 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 <sub>3</sub> 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
	Bihpuria	pH value(1.5)	6.42
		Sulphite in SO <sub>3</sub> 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 <sub>3</sub> 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 <sub>3</sub> 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 <sub>3</sub> in %	5.4
		Chloride in mg/kg	7.9

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

Name of Package	Name of Monitoring	Parameters	Results (Baseline data generated for pre- monsoon season 2022)
		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 <sub>3</sub> 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
		Moisture Content in %	34.5
E	Shankardevnagar	pH value(1.5)	5.6
		Sulphite in SO <sub>3</sub> 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 <sub>3</sub> 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 programme are provided in Table below.

**Table 15: Details Capacity building programme**

Sl. No.	Date	Topic of Training	Participant/Organization	No. of Participant
<b>Training Conducted by AIIB</b>				
1.	16.02.2022	Discussion on CESMP format and E&S requirement	EPC contractors	28
<b>Training Conducted by AIIB</b>				
2.	18.02.2022	Meeting on E&S requirement and discussion on CESMP format	PMU, PIU and PMC	39
<b>Training Conducted by PMC to PMU, PIU and EPC contractors</b>				
3.	14.06.2022	Training on EHS&S aspects at Chhaygaon	E&S Specialist of PMU, EPC Contractor's representatives and labour	1 5 14

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

Sl. No.	Date	Topic of Training	Participant/Organization	No. of Participant
4.	15.06.2022	Training on EHS&S aspects at Burhigaon	E&S Specialist of PMU, EPC Contractor's representatives and labour	1 4 17
5.	28.06.2022	Training on EHS&S aspects at Jakhlabandha	PIU officials EPC Contractor's representatives and labour	6 5 9
6.		GRM/GRC Training Tier-1, Samaguri	PIU Officials	2

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

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.

Grievance Redress Mechanism (GRM) training was conducted at AGM Office, Samaguri 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 no accident was occurred in any of the site, as the physical activities like clearance of sites and construction of boundary wall at Chhaygaon Burhigaon and Jakhlabandha substation was started from June, 2022 onwards. However, if any accident occurred during the time of construction, the EPC contractor will record in their registered in the all the sites.

### 7.4 Highlighted Actions

- Notice to proceed of Package B is given during the reporting period.

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

- During the reporting period contract has been signed dated for Shankardevnagar to EPC Contractor M/s Godrej & Boyce Mfg. Co. Ltd. Site handover to EPC contractor.
- Contract signed for Pkg –D (Khumtai) and site handed over to EPC Contractor.
- Abbreviated / Resettlement Action Plan (A/RAP) and Tribal People's Plan (TPP) for Rangia & Kumarikata S/Shas been submitted to AIIB for review.
- During the reporting period several site visits were conducted for different sites to witness environmental monitoring, monitor the Environmental, Health & Safety Standards, EHS & GRC training etc.
- During the reporting submitted updated ESIA-ESMP for 7 S/S report to AIIB.
- During the reporting period CESMP including TMP for Package A, B & C has been submitted and approved by AIIB.
- During the reporting period one time financial assistance provided to 7 (seven) nos. of non-titleholders of Nagaon-2 SS through Nagaon T&T Division.
- During the reporting period ESIA –ESMP report for 5 Substations (Pkg A -Jakhlbandha, Pkg B -Nagaon-2 &Chhaygaon, Pkg C- Burhigaon and Pkg E- Shankardevnagar) submitted to AIIB on and uploaded in AEGCL website.
- Table of contents for ESIA-ESMP of Transmission Line and Approach Methodology submitted to AIIB during the reporting period.
- Site visit was conducted at Rangia to conduct socio-economic census survey and public consultation with 32 Project Affected Persons (PAPs) for construction at Rangia and Kumarikata GIS substations (Pkg- G) during the reporting period.
- During the reporting period the Formats and workflow for Forest Clearance (Stage – I) were submitted by PMC to AEGCL.
- Summary for Disclosure of CESMP – Pkg A, B, C & E submitted to AIIB during the reporting period which will be disclosed by respective EPC contractors to the local community people in the form of leaflet and during consultation after comments/approval from AIIB.
- Traffic Management Monitoring Plan Checklist submitted PMC to AEGCL during the reporting period.
- During the reporting period Traffic Management Plan for Pkg- G (Rangia & Kumarikata) and Pkg- H (Sonapur) Substations submitted to AIIB.
- During the reporting period ESIA-ESMP Report for Pkg –G (Rangia & Kumarikata) and Pkg- H (Sonapur) Substations submitted to AIIB.
- During the reporting period site visit was conducted to assess the Environmental and Social Impacts Assessment of Transmission Lines at Jakhalabandha Substation (Pkg-A).
- During the reporting period Site visit was conducted to conduct socio-economic census survey & public consultation with seven (7) non-title holders (Project Affected Persons) who cultivated crops temporarily in the Nagaon-2 Substation area (Pkg-B).
- During the reporting period submitted draft EHS, GRM Training and Social Module Training Module by PMC to AEGCL for onward submission to AIIB.

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

- During the reporting period draft 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. No Grievance received during this reporting period.

## 9.0 Corrective Action Plan

**Table 16: 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 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 from Forest Department.	PIU/PMU require to expedite the process of Forest clearance for T/L of package H (Sonapur) from Forest Department.	PIU/PMU	Immediate arrangement before respective activity	Review with AEGCL/ Forest Department
3.	Tree felling permission for Chhaygaon, Jaklabandha and Shankardevnagar 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 Chhaygaon, Jaklabandha and Shankardevnagar S/S.	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.	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 contractors	Immediate arrangement	Observation / review with EPC contractors / update record
5.	EPC contractors are unable to submit land schedule due to monsoon and flood situation in Assam.	Require surveying / resurveying with concerned revenue department to finalize that land schedule.	EPC contractors	Immediate arrangement	Observation / review with EPC contractors / update record

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

## **10.0 Conclusion and Recommendations**

In the previous monitoring period (July to December 2021) no civil work had been initiated and only contract and mobilization were under process. EPC contractors have resolved/settled minor issues arise during the execution of the project in current reporting period. 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.



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

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



Photo Plate 1&2- Markings of trees to be enumerated done by Forest Officials at Chhaygaon S/S.  
Date- 05.01.2022



Photo Plate 3&4- Consultation with Gaon Pradhan, local people and stakeholders along with AEGCL officials and PMC Social and Environment Team at Sonapur  
Date-01.02.2022



Photo Plate 5&6- Consultation with Gaon Pradhan, local people and Ward Member of the village along with AEGCL officials and PMC Social and Environment Team at Sankardevnagar  
Date-01.02.2022

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



Photo Plate 7&8- Witness the monitoring of ambient air quality at pre-construction stage  
Date- 05.02.2022



Photo Plate 9 &10- Witness the monitoring of noise quality at pre-construction stage.  
Date- 05.02.2022



Photo Plate 11- Witness the monitoring of water.  
Date- 05.02.2022



Photo Plate 12- Witness the sampling of soil.  
Date- 05.02.2022

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



Photo Plate 13 & 14- Witness of monitoring of wind.  
Date- 05.02.2022



Photo Plate 15- One-time Payment done to seven non-titleholders for Nagaon-2 SS  
Date- 04.03.2022

Photo Plate 16- Payment done to non-title holding APs through Cheque for Nagaon-2 SS  
Date- 04.03.2022



Photo Plate 17- Consent and Signatures taken from non-titleholders for Nagaon-2 SS  
Date- 04.03.2022

Photo Plate 18- Consent and Signatures taken from non-titleholders for Nagaon-2 SS  
Date- 04.03.2022

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



Photo Plate 19- Quarry Location 1 of Jakhlabandha S/S  
Date- 11.04.2022



Photo Plate 20- Quarry Location 2 of Jakhlabandha S/S  
Date- 11.04.2022



Photo Plate-21&22- Socio-economic census survey and public consultation at Rangia  
Date- 05.05.2022



Photo Plate 23- Public Consultation of Environment Team with local residents of Jakhlabandha S/S  
Date-07.06.2022



Photo Plate 24- Environment Team visiting Jakhlabandha Forest Beat Office  
Date-07.06.2022

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



Photo Plate 25&26- Training program on Environmental, Health, Safety & Social for the workers by PMU & PMC team at Chhaygaon S/S  
Date-14.06.2022



Photo Plate 27- Tree felling at the project site at Chhaygaon S/S  
Date- 24.06.2022



Photo Plate 28- Hammering & Number Stamp of felled tree at Chhaygaon S/S  
Date- 24.06.2022



Photo Plate 29 – GRC training provided to PIU officials  
Date-28.06.2022

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

## Appendix 2: Attendance sheets some of the consultations

## Attendance sheet and public consultation in Sonapur

\*OFFICIAL USE ONLY

**LIST OF PARTICIPANTS**

Name of the Project: Assam Intra State Transmission System Enhancement Project. Date: 01/03/2022  
 Location: Sonapur

Sl. No.	Name	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected (yes/no)	Signature
1	Kameswar Konwar	57	M	N	H.C	Village Headman	No	Kameswar Konwar
2	Abdul Rahiq	55	M	N	5 <sup>th</sup> class	Farmer	No	Abdul Rahiq
3	Abubakar	38	M	N	5 <sup>th</sup> class	Business	No	Abubakar
4	Md. Gabur Ali	26	M	N	4 <sup>th</sup> class	Driver	No	Md. Gabur Ali
5	Akman Ali	24	M	N	5 <sup>th</sup> class	Driver	No	Akman Ali
6	Rahib Ali	30	M	N	8 <sup>th</sup> class	Business	No	Rahib Ali
7	Parida Khatun	22	F	N	9 <sup>th</sup> class	Housewife	No	Parida Khatun
8	Trishna Sonwal	21	F		H.C pass	"	No	Trishna Sonwal
9	Amkya Khatun	23	F	N	8 <sup>th</sup> pass	"	No	Amkya Khatun
10	Same Sonwal	26	M		H.S pass	Service	No	Same Sonwal
11	Jaiqun Begam	60	F	N	5 <sup>th</sup> pass	Housewife	No	Jaiqun Begam
12	Murtag Begam	23	F	N	8 <sup>th</sup> pass	"	No	Murtag Begam
13	Minkamila Begam	26	F	N	5 <sup>th</sup> pass	"	No	Minkamila Begam
14	YAKUB ALI	49	M	N	4 <sup>th</sup> pass	Driver	No	YAKUB ALI
15	Hayatun Nasa	50	F	N	4 <sup>th</sup> pass	Housewife	No	Hayatun Nasa
16	Kameswar Ali	38	M	N	5 <sup>th</sup> pass	Business	No	Kameswar Ali
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## Assam Intra-State Transmission System Enhancement Project, Phase-1

## Attendance Sheet of PAPs for new 400/220/132kV Rangia and 132/33kV Kumarikata GIS substation.

Date-05.05.2022

## Attendance sheet of Project Affected Persons

dated-05/05/22

## LIST OF PARTICIPANTS

SL NO	Name	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected (Yes/No)	Signature
1	BINA RABHA	57	F	yes	8	House wife	yes	Binu Rabha
2	Bhaben ch. Rabha	87	M	yes	P.U.	Retd. Teacher	yes	Bhaben ch. Rabha
3	Jyoti Boro <del>Dimpal Boro</del>	34	M	Yes	H.S.	Bishu	yes	Jyoti Boro
4	Dimpal Boro	32	M	Yes (M)		Bishu	yes	Dimpal Boro
5	Sunil Mazumdar	29	M	NO	(IX)	Business	yes	Sunil
6	Surra Das	45	M	No	IX	Agri	yes	Surra Das
7	Mukta Ran Das	77	M	No	H.S.	Service Railway	yes	M. Das
8	Bhaben Das	40	M	No	IX	Agri	yes	Bh. Das
9	Rabul Deka	41	M	NO	10	Busm	yes	Rabul
10	Babul Deka	45	M	NO	10	Busm	yes	Babul
11	Bhenu Deka	41	M	NO	10	Busm	yes	Bhenu
12	Kamaleswar BORO	55	M	Y	4 <sup>th</sup> pass.	Agri	Y	Kamaleswar Boro
13	2000 2000 2000	25	M	NO	8 <sup>th</sup> pass.	Agri	Y	2000 2000 2000
14	Krishna Moyda	16	M	NO	6 <sup>th</sup> pass.	Agri	Y	KM
15	Kalpana Moyda	45	F	NO	NIL	H/W	Y	Kalpana Moyda
16	Ramesh Satter	38	M	NO	9 <sup>th</sup>	Agri	Y	Ramesh Satter
17	Mohitani Das	60	M	NO	5 <sup>th</sup>	Agri	Y	Mohitani Das

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

## LIST OF PARTICIPANTS

SL. NO	Name	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected (yes/No)	Signature
18	Gobindul Patowari	49	M	N	XII passed	Agriculture	Yes	Gobindul Patowari
19	Mina patowari	42	F	N	8	house wife	yes	Mina
20	Pradip Mahanta	52	M	N	H.S. Passed	Business	Y	Pradip
21	Narayan Mahanta	49	M	N	H.S. Passed	Teacher	Y	N. Mahanta
22	Bhagabam Mahanta	38	M	N	B.A. Passed	P. Job	Y	B. Mahanta
23	Upam Subradha	46	M	N	10 pass	Apprentice	Y	Upam
24	Dhiren Sutradhar	37	M	N	10 pass	Agri	Y	D. Sutradhar
25	Kamal Sutradhar		M	N		Agri	Y	K. Sutradhar
26	Goutam Talukdar	45	M	N	B.A.	Service	Y	G. Talukdar
27	Ganesh Sarania	28	M	N	H.S.	Agri	Y	Ganesh Sarania
28	Tijet Sutradhar	38	M	N	-	Agri	Y	Tijet Sutradhar
29	Kamleshwar Sutradhar	38	M	N	9 <sup>th</sup>	Agri	Y	K. Sutradhar
30	Rameshwar Sutradhar	40	M	N	-	Agri	Y	R. Sutradhar
31	Kalicharan Sutradhar	58	M	N	H.S.	Agri	Y	Kalicharan Sutradhar
32	Gopal Sutradhar	40	M	N	5th pass	Business	Y	Gopal Sutradhar
33								
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Assam Intra-State Transmission System Enhancement Project, Phase-1

Attendance sheet of Females and other vulnerable

**LIST OF PARTICIPANTS**

**Consultations with Females and other vulnerable**

Date: 05/05/21

Sl. NO	Name	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected (yes/No)	Signature
1	Anamika Sutradhar	15	F	N	Oth	Student	NO	Anamika Sutradhar
2	Jotima Sutradhar	13	F	N	7th	Student	No	Jotima Sutradhar
3	Padumi Sutradhar	23	F	N	Mitme	H-W	No	Padumi Sutradhar
4	Rahita Sutradhar	19	F	N	Oth	H-W	No	Rahita Sutradhar
5	Fulmati Sutradhar	35	F	N	Nil	H-W	No	Fulmati Sutradhar
6	Ronjana Sutradhar	34	F	N	Nil	H-W	No	Ronjana Sutradhar
7	Sewali Sutradhar	24	F	N	Second year	H-W	No	Sewali Sutradhar

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

Attendance sheet of Tribal Project Affected Persons

dated - 5/05/22

**LIST OF PARTICIPANTS**  
**Consultations with Tribals**

SL. NO	Name	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected (yes/No)	Signature
1	BINA RABHA	57	F	yes	8	Agriculture	yes	বীনা রাস্ত
2	Bhabench Raha	87	M	yes	PU	Rtd. Teacher	yes	Bhabench Raha
3	Kamaleswari Boro	55	M	Y	4 <sup>th</sup> Pass	Agriculture	Y	কামালাস্বৰী বৰো
4	Jayanta Boro	34	M	Y	8 passed	Bonus	Y	জয়ন্তা বৰো
5	Dimpal Boro	32	M	Y	8 passed	Agriculture Bonus	Y	ডিম্পাল - বৰো

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

## Attendance sheet of Site Visit conducted to assess the Environmental and Social Impact Assessment of Transmission Lines of 220/33kV Jakhlabandha Substation

Date-07.06.2022

Attendance sheet of PIU, PMU, PMC and EPC Officials

Name of the Sub-Projects: 220 KV D/C Jakhlabandha L1LO

Date of Public consultation: 07/06/2022

SL. No	Name	Designation	Contact Number	Signature
1	Naba Jyoti Borah	Junior Manager	6002037033	
2	Subidya Mahanta	Gen Pradhan	9954906250	
3	Sputankr. Das	Sr. Design Engineer	7086039131	
4	Rijit Barua	Environmental Env. Officer	7002552186	
5	Kanraj Mili	Environmental Investigation officer	9101561004	
6	Rahul K. Gupta	Social Investigation officer	997230118	
7	Kaushik Das	Social Investigation officer	60016-18055	
8	Dr. Sandip Das	Sr. Env. Expert	8750320751	
9	Khamin Borah	Sr. Social Safety Exp	9864223155	

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

## Attendance sheet of Public Consultation

Name of the Sub-Projects: 220KV DIC Jakhlabandha LILD  
 Date of Public consultation: 07/06/2022 (Sekonee Borhola Village)

SL. No	Name of the Participant	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected Person (yes/No)	Signature
1.	Krishna kt. Gohain	55	M	N	4 <sup>th</sup> Pass	Farmer	Y	
2	Juber Ahmed	58	M	N	10 <sup>th</sup> Pass	-do-	Y	
3	Joyal Ansari	64	M	N	5 <sup>th</sup> Pass	-do-	Y	
4	Hajim Ansari	57	M	N	10 <sup>th</sup>	-do-	Y	Hajim Ansari
5	Ganesh Gohain	59	M	N	HS Pass	Govt. Service	Y	
6	Mukjahan Begum	65	F	N	NIL	H/W	Y	
7	Sheikh Kadir Ahmed	76	M	N	5 <sup>th</sup> Pass	Farmer	Y	Jured Alam
8	Hasim Ansari	70	M	N	1 <sup>st</sup> Pass	Farmer	Y	Hasim Ansari
9	Jalil Ansari	42	M	N	10 <sup>th</sup> Pass	Carpenter	Y	
10	Daba Kharia	60	M	N	10 <sup>th</sup> Pass	Farmer	Y	Sawan Kharia
11	Gakul Kharia	55	M	N	LP	Farmer	Y	Gakul Kharia
12	Bodha Kharia	66	F	N	NIL	H/W	Y	
13	Debaraj Kharia S/o Sibakut	27	M	N	LP	Farmer	Y	
14	Ibrahim Ali	46	M	N	BA	Teacher	Y	Ali
15	Subhash Ch Shah	53	M	N	10 <sup>th</sup> Pass	Business P. Service	Y	Subhash
16	Ritu moni Cahon Shah	40	F	N	10 <sup>th</sup> Pass	Business	Y	Ritu moni Lukan

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

## Attendance sheet of Public Consultation

Name of the Sub-Projects: 220KV DIC Jakhlabandha L1LO  
 Date of Public consultation: 07/06/2022

SL. No	Name of the Participant	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected Person (yes/No)	Signature
1	Deben Kramsa	52	M	Y	10 <sup>th</sup> pass	Gnam Pradhan	N	Deben Kramsa
2	Subidya Mahanta	72	M	N	12 <sup>th</sup> Pass	-do-	N	Subidya
3	Binen Kramsa	57	M	Y	10 <sup>th</sup> Pass	Farmer	Y	Binen
4	Kehari Timu	52	M	Y	8 <sup>th</sup> pass	Farmer	Y	Kehari Timu
5	Suren Tokbi	60	M	Y	10 <sup>th</sup> Pass	Govt. Retired.	Y	Suren
6	Homchira Timung	80	M	Y	6 <sup>th</sup> Pass	Farmer	Y	Homchira Timung
7	Mina Terangpi	59	F	Y	4 <sup>th</sup> pass	H/wife	Y	Mina Terangpi
8	Ramesh Kramsa	52	M	Y	4 <sup>th</sup> Pass	Farmer	Y	Ramesh
9	Minda Tokbi	27	M	Y	10 <sup>th</sup> Pass	-do-	Y	Minda
10	Lakhiram Kramsa	62	M	Y	3 <sup>rd</sup> Pass	-do-	Y	Lakhiram
11	Raju Kramsa	22	M	Y	8 <sup>th</sup> Pass	-do-	N	Raju

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

Project Name: 220KV D/C Sakhebandha L1LO (A1313)

Date : 07/06/2022 (Village -  
List of Participants

SL No	Name of the Participant	Age	Sex (M/F)	IP (Y/N)	Education	Occupation	Project Affected Person (yes/No)	Signature
1	Kuddush Ahmed	-	M	N	-	-	-	-
2	Sami Ahmed	45	F	N	HS Pass	Business	Y	Sami Begum
3	Sohail Ahmed Bagum	20	M	N	10 <sup>th</sup> Pass	-do-	Y	Sohail Ahmed
4	<del>Sabir Hantique</del>							
4	Sab Mamoni Saikia	40	F	N	HS Passed	H/W	Y	Mamoni Saikia
5	Ashok Shahu	46	M	N	7 <sup>th</sup> Pass	Farmer	Y	
6	Lakhi Shahu	66	F	N	NIL	H/W	Y	
7	Jagannath Shahu	79	M	N	NIL	Farmer	Y	
8	Kaunuddin Ansari	44	M	N	Class 9	Mechanic Stationer	Y	

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

## Attendance Sheet of Training Program on Environment, Health &amp; Safety and Social Aspects at Chaygaon S/S

Date-14.06.2022

## Attendance sheet of Public Consultation

Name of the Sub-Projects: 220/33 kV Substation at Chaygaon

Date of Public consultation: 14.06.2022

SL. No	Name	Designation	Contact Number	Signature
1	Dibya Jyoti Barmah	ESS Officer	9854339-228	Barmah 14/06/2022
2	Khanir Badrya	Sr. Social Safeguarding Exp PIL	9864213135	Khanir
3	Dr. Sandipan Das	Sr. Environmental Safeguarding Expert	8750320735	Dr. Das
4	Kausik Das	Social Safeguarding Officer	6001618055	Kausik
5	Juriahmita Seka	Env. Investigation officer	7002730427	Juriahmita
6	ABHIDIT KOLEY	PROJECT MANAGER	9663390703	A. Koley
7	Mohammad Haddik	EHS OFFICER	9340748199	M. Haddik
8	MD. ASLAM	Engineer	797984447	MD. ASLAM
9	Manoj Kumar Rajbhar	Store Executive	7678926274	Manoj
10	Sri Prasad Das	Supervisor	6001379696	Sri Prasad
11	Mohiul Haque	Labourer	6001268259	Mohiul Haque
12	M. Samiul Islam	Labourer	6001180327	M. Samiul Islam
13	Summar Ali	Labourer	9864756302	Summar Ali
14	Sultan Ali	Labourer	7384886550	Sultan Ali
15	Rizaul Karim	Labourer	9767687697	Rizaul Karim
16	Rafikul Islam	Labourer	6900569632	Rafikul Islam

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

14-6-2022

Name of the Sub-Projects: 220/33KV Substation at Chaygam

Date of Public consultation: 14.06.2022

SL. No	Name	Designation	Contact Number	Signature
17.	Rasidul Ali	Labour	78960 09088	Rasidul
18.	Babidul Islam	Labour	7368988 016	Babidul
19.	Momin Ali	Labour	8011119 251	Momin Ali
20.	Ibrahim Ali	Head Master Labour	876195 9178	Ibrahim Ali
21.	SOFDAR-Ail	Labour	630353662	-SOFDAR
22.	Samidul Haque	Labour	93657167 48	Samidul
23.	Ahmad Ali	Labour	70865404 29	Ahmad Ali
24.	Hussain Ali	Cook	6002541 893	Hussain Ali



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

## Attendance Sheet of for monitoring of Environmental, Health, Safety &amp; Social aspects and tree felling at Chaygaon S/S

Date-24.06.2022

**FEEDBACK**  
Make it better, faster

**ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT**


Site Visit Attendance Sheet on Environmental, Health, Safety and Social aspect  
Date 24.06.2022 Venue Chaygaon S/S


Sl. No	Name	Designation	Contact Number	Signature
1.	Nurul Hassan Saikia	Foraster-1	9565174080	
2.	Jojan C. Das	Forest guard		
3.	Sankar Saikia	Chain Man		
4.	Ratib Babha	Casual Worker		
5.	Pankaj Mili	Env. Investigation officer	9486269721	
6.	Jurichmita Deka	Env. Inv. officer	706273092	
7.	Md. Haddish	ESH Officer	9840748994	
8.	Manoj Kumar Kybha	Store Executive	7678926274	
9.	Nayanjoti Nath	JM (C)	8638275524	
10.	Raja Kumar	JE (C)	9279219132	
11.	MD. ASLAM	Engineer (C)	797924417	
12.	Kaushik Das	Social Investigation officer	6006 18055	

Attendance sheet on training program on Grievance Redressal Mechanism of Tier-1 to the PIU officials of 220/132/33 kV AIS substation at Samaguri for Jakhlabandha S/S.

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

Date: 28.06.2022





Working Infrastructure Happens

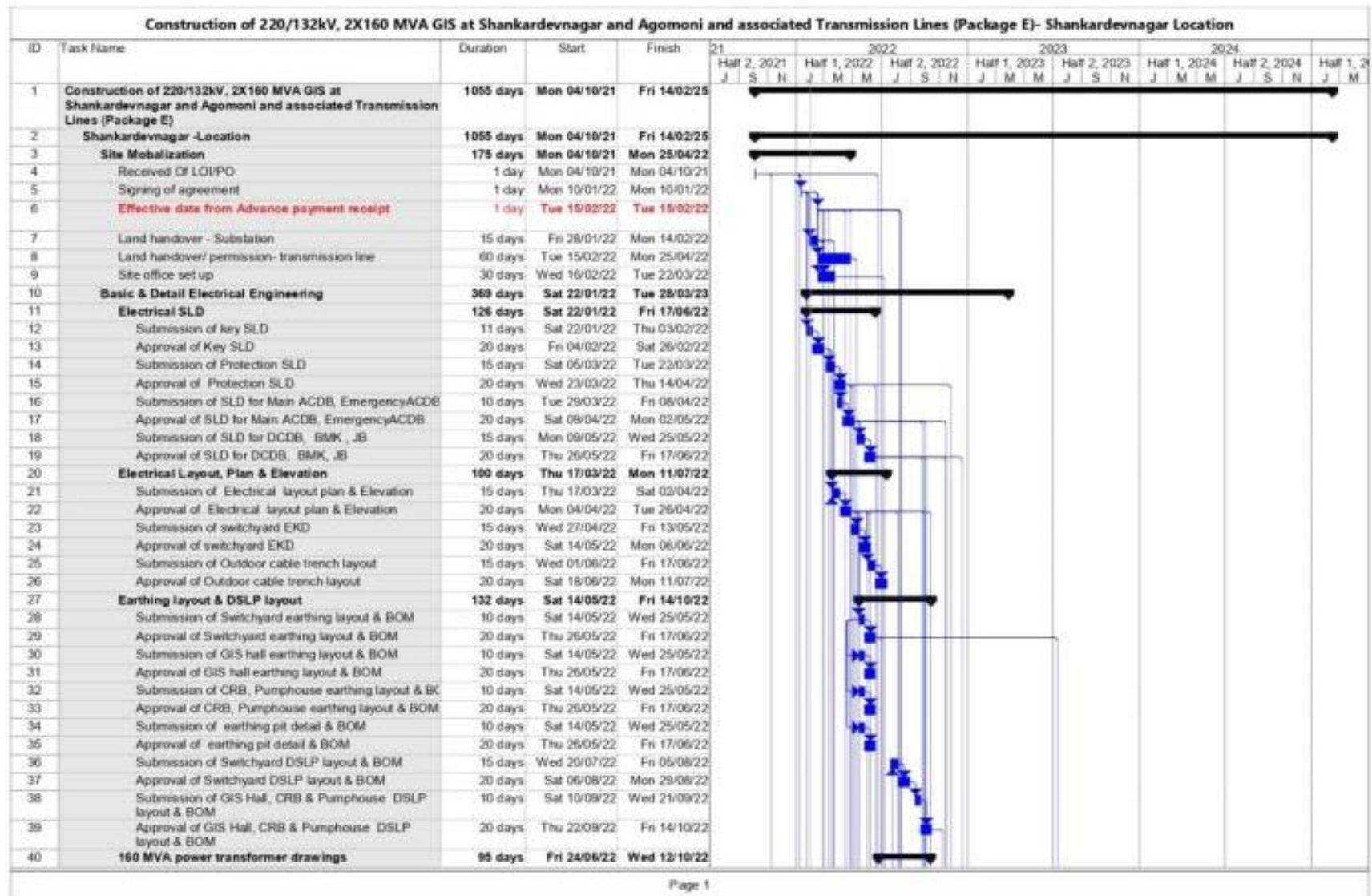
**ASSAM INTRA-STATE TRANSMISSION SYSTEM ENHANCEMENT PROJECT**  
**Attendant Sheet of PMU/PIU officials**

Training Program on Grievance Redressal Mechanism of Tier - 1  
 Date: 28-06-2022 Venue: 220/132/33kV AIS S/S Samaguri

Sl. No	Name	Designation	Contact Number	Signature
1.	NILAJYOTI NATH	JM (CIVIL)	7002549475	<i>[Signature]</i>
2	NILUTPAL SARKAR	DH (E)	8011782506	<i>[Signature]</i>
3	LOKA S. EDDY	TL PMU	9960996111	<i>[Signature]</i>
4	Khanir Reza	Supv. Social Envt. Imp. Officer	9364223181	<i>[Signature]</i>
5	Akhilwora Saha	Social Envt. Imp. Officer	9532133893	<i>[Signature]</i>
6	Bijit Barua	Env. Investigation Officer	002852186	<i>[Signature]</i>

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

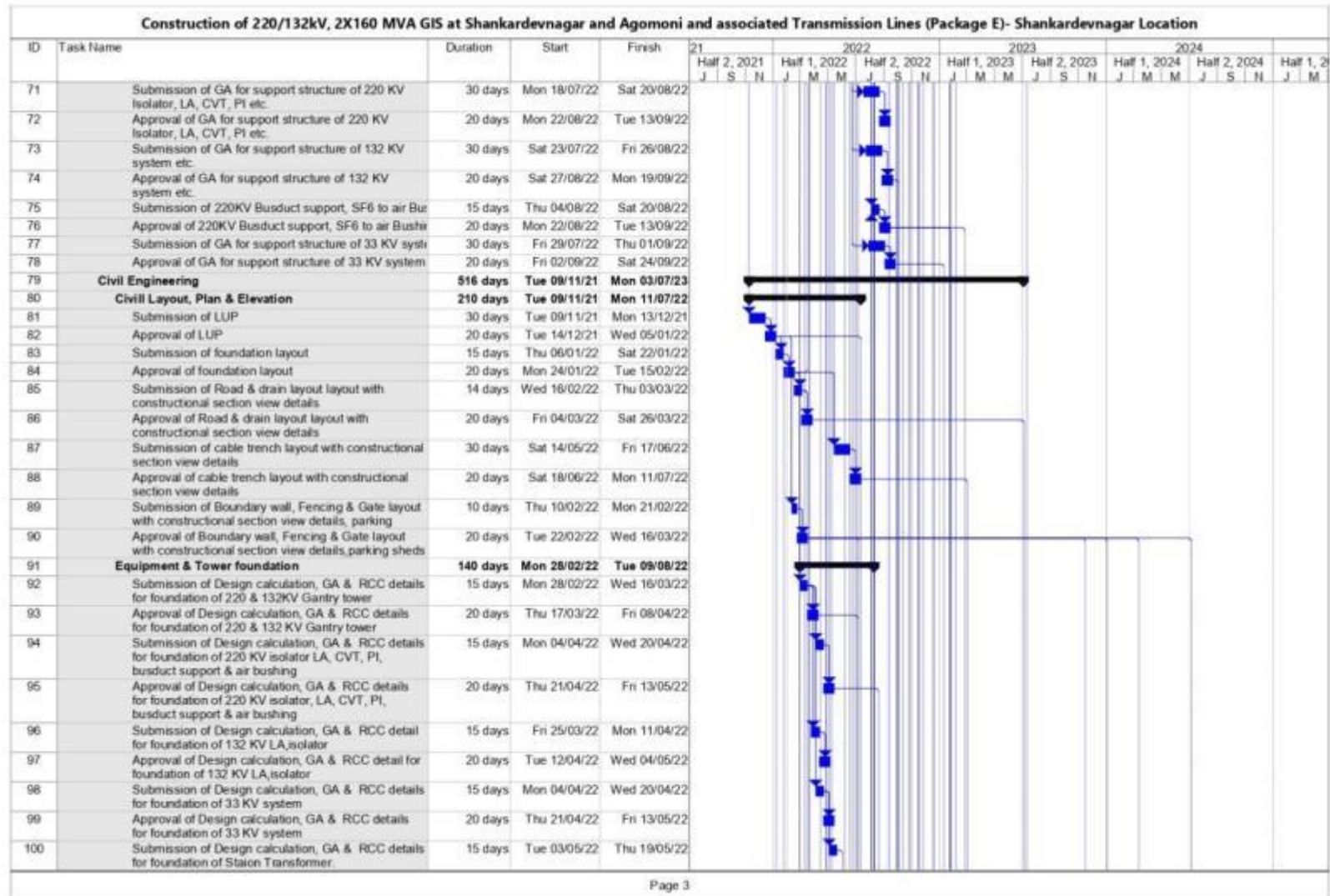
Appendix 3: Sample copy of project site specific Gantt chart (L2 Schedule)



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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																												
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024																
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024																
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	M
41	Drawings & others technical parameters of 160 MVA Transformer-I & II for foundation design calculation, GA & RCC details etc.	15 days	Fri 24/06/22	Mon 11/07/22																								
42	Submission of Design & drawing of Transformer Foundation	10 days	Thu 08/09/22	Mon 19/09/22																								
43	Approval of Design & drawing of Transformer Foundation	20 days	Tue 20/09/22	Wed 12/10/22																								
44	<b>Illumination layout</b>	<b>55 days</b>	<b>Fri 30/12/22</b>	<b>Fri 03/03/23</b>																								
45	Submission of switchyard illumination layout, SLD & BOM	10 days	Fri 30/12/22	Tue 10/01/23																								
46	Approval of switchyard illumination layout, SLD & BOM	20 days	Wed 11/01/23	Thu 02/02/23																								
47	Submission of GIS Hall cum CRB illumination layout, SLD & BOM	15 days	Mon 23/01/23	Wed 08/02/23																								
48	Approval of GIS Hall cum CRB illumination layout, SLD & BOM	20 days	Thu 09/02/23	Fri 03/03/23																								
49	Submission of Pumphouse illumination layout, SLD & BOM	15 days	Mon 23/01/23	Wed 08/02/23																								
50	Approval of Pumphouse illumination layout, SLD & BOM	20 days	Thu 09/02/23	Fri 03/03/23																								
51	Submission of quarter, Security Goomty, Store building & store shed, Hostel, etc illumination layout, SLD & BOM	15 days	Mon 23/01/23	Wed 08/02/23																								
52	Approval of quarter, Security Goomty, Store building & store shed, Hostel, etc illumination layout, SLD & BOM	20 days	Thu 09/02/23	Fri 03/03/23																								
53	<b>Design Calculation</b>	<b>273 days</b>	<b>Sat 14/05/22</b>	<b>Tue 28/03/23</b>																								
54	Submission of earth mat design calculation of Switchyard, GIS hall, CRB	10 days	Sat 14/05/22	Wed 25/05/22																								
55	Approval of earth mat design calculation of Switchyard, GIS hall, CRB	20 days	Thu 26/05/22	Fri 17/06/22																								
56	Submission of DSLP design calculation of Switchyard, GIS hall, CRB	15 days	Wed 01/06/22	Fri 17/06/22																								
57	Approval of DSLP design calculation of Switchyard, GIS hall, CRB	20 days	Sat 18/06/22	Mon 11/07/22																								
58	Submission of battery sizing & charger sizing calculation	15 days	Mon 26/09/22	Wed 12/10/22																								
59	Approval of battery sizing & charger sizing calculation	20 days	Thu 13/10/22	Fri 04/11/22																								
60	Submission of Lux level calculation of Switchyard, GIS hall, CRB, Pumphouse	15 days	Tue 08/11/22	Thu 24/11/22																								
61	Approval of Lux level calculation of Switchyard, GIS hall, CRB, Pumphouse	20 days	Fri 25/11/22	Sat 17/12/22																								
62	Submission of Lux level calculation of quarter, Security Goomty, hostel etc	15 days	Sat 19/11/22	Tue 06/12/22																								
63	Approval of Lux level calculation of quarter, Security Goomty, hostel etc	20 days	Wed 07/12/22	Thu 29/12/22																								
64	Submission of LT cable sizing calculation	20 days	Fri 10/02/23	Sat 04/03/23																								
65	Approval of LT cable sizing calculation	20 days	Mon 06/03/23	Tue 28/03/23																								
66	Submission of control cable & powercable schedule	20 days	Tue 24/01/23	Wed 15/02/23																								
67	Approval of control cable & powercable schedule	20 days	Thu 16/02/23	Fri 10/03/23																								
68	<b>Structural Engineering</b>	<b>70 days</b>	<b>Wed 06/07/22</b>	<b>Sat 24/09/22</b>																								
69	Submission of GA for support structure of 220 & 132KV Gantry tower & Beam	15 days	Wed 06/07/22	Fri 22/07/22																								
70	Approval of GA for support structure of 220 & 132KV Gantry tower & Beam	20 days	Sat 23/07/22	Mon 15/08/22																								

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



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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024									
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 24									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
101	Approval of Design calculation, GA & RCC details for foundation of Station Transformer	20 days	Fri 20/05/22	Sat 11/06/22																	
102	Submission of Design calculation, GA & RCC details for foundation of DG set, Surge capacitor BMK, street lighting pole, gate etc etc	15 days	Thu 30/06/22	Sat 16/07/22																	
103	Approval of Design calculation, GA & RCC details for foundation of DG set, Surge capacitor BMK, street lighting pole, gate etc etc	20 days	Mon 18/07/22	Tue 09/08/22																	
104	<b>Civil Constructional &amp; Achitectural details of Building</b>	<b>373 days</b>	<b>Fri 04/03/22</b>	<b>Fri 12/05/23</b>																	
105	<b>GIS Hall cum Control Room Building ( CRB)</b>	<b>265 days</b>	<b>Fri 08/07/22</b>	<b>Fri 12/05/23</b>																	
106	Submission of Architectural layout Plan, Elevation & section	10 days	Tue 12/07/22	Fri 22/07/22																	
107	Approval of Architectural layout Plan, Elevation & section	20 days	Sat 23/07/22	Mon 15/08/22																	
108	Submission of GA & RCC details of foundation, Plinth beam layout, Column	10 days	Tue 16/08/22	Fri 26/08/22																	
109	Approval of GA & RCC details of foundation, Plinth beam layout, Column	20 days	Sat 27/08/22	Mon 19/09/22																	
110	Submission of GA & RCC details of Slab layout details for Ground floor	10 days	Sat 01/10/22	Wed 12/10/22																	
111	Approval of GA & RCC details of Slab layout details for Ground floor	20 days	Thu 13/10/22	Fri 04/11/22																	
112	Submission of GA & RCC details of beam layout, Columns of first floor	10 days	Sat 05/11/22	Wed 16/11/22																	
113	Approval of GA & RCC details of beam layout, Columns of first floor	20 days	Thu 17/11/22	Fri 09/12/22																	
114	Submission of GA & RCC details of Slab layout details for first floor	10 days	Sat 10/12/22	Wed 21/12/22																	
115	Approval of GA & RCC details of Slab layout details for first floor	20 days	Thu 22/12/22	Fri 13/01/23																	
116	Submission of GA & RCC details of beam layout of Roof	10 days	Wed 18/01/23	Sat 28/01/23																	
117	Approval of GA & RCC details of beam layout of R	20 days	Mon 30/01/23	Tue 21/02/23																	
118	Submission of EOT crane support beam layout	7 days	Fri 08/07/22	Fri 15/07/22																	
119	Approval of EOT crane support beam layout	20 days	Sat 16/07/22	Mon 08/08/22																	
120	Submission of doors windows details	7 days	Sat 11/03/23	Sat 18/03/23																	
121	Approval of doors windows details	20 days	Mon 20/03/23	Tue 11/04/23																	
122	Submission of sanitary & Plumbing details	7 days	Wed 12/04/23	Wed 19/04/23																	
123	Approval of sanitary & Plumbing details	20 days	Thu 20/04/23	Fri 12/05/23																	
124	Submission of internal cable trench layout	7 days	Wed 22/02/23	Wed 01/03/23																	
125	Approval of internal cable trench layout	20 days	Thu 02/03/23	Fri 24/03/23																	
126	Submission of building staircase details	7 days	Thu 02/03/23	Thu 09/03/23																	
127	Approval of building staircase details	20 days	Fri 10/03/23	Sat 01/04/23																	
128	<b>Quarters &amp; hostel</b>	<b>195 days</b>	<b>Tue 16/08/22</b>	<b>Thu 30/03/23</b>																	
129	Submission of Architectural layout Plan, Elevation & section	10 days	Tue 16/08/22	Fri 26/08/22																	
130	Approval of Architectural layout Plan, Elevation & section	20 days	Sat 27/08/22	Mon 19/09/22																	

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

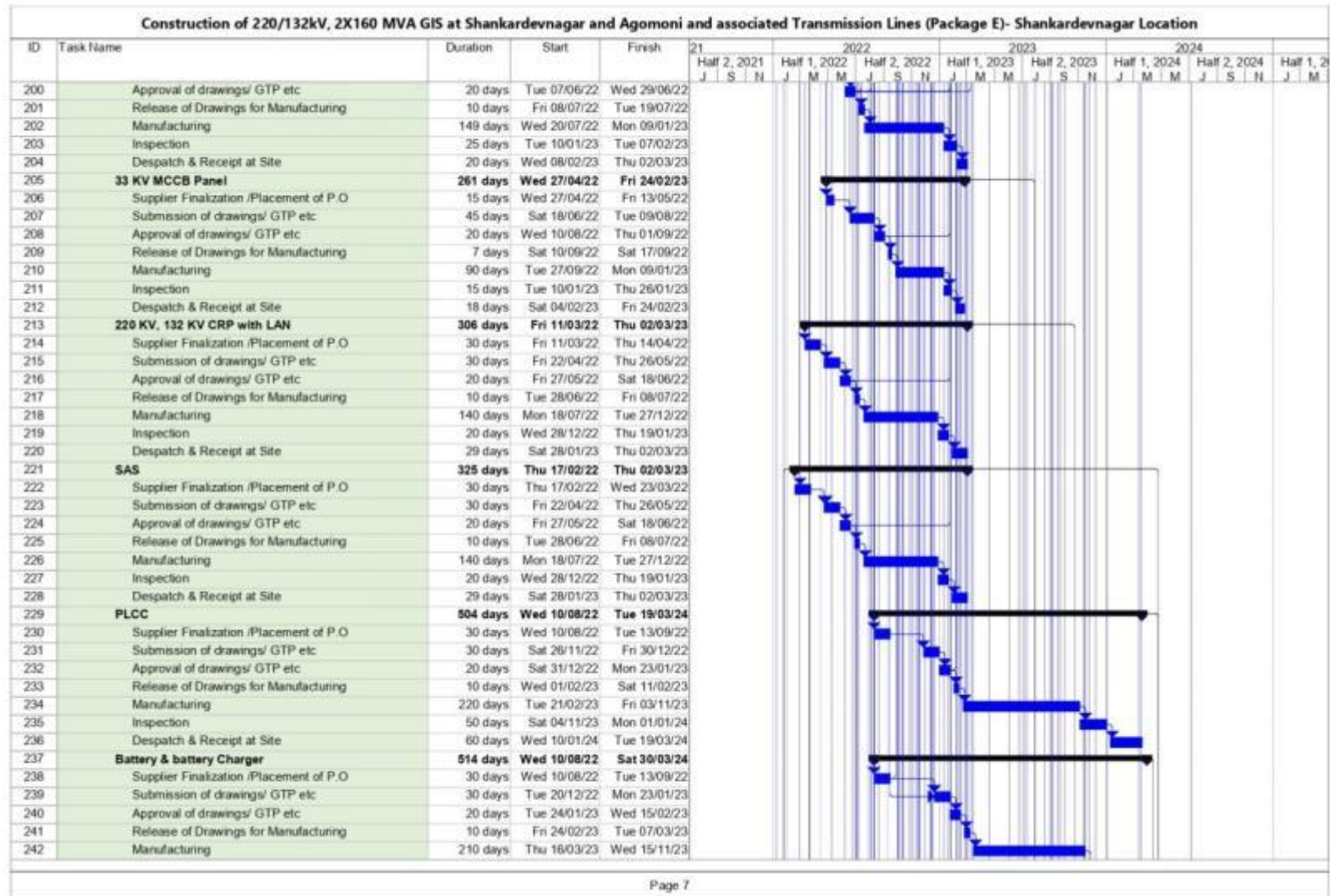
Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024									
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
131	Submission of GA & RCC details of foundation, Plinth beam layout, Column	10 days	Fri 23/09/22	Tue 04/10/22																	
132	Approval of GA & RCC details of foundation, Plinth beam layout, Column	20 days	Wed 05/10/22	Thu 27/10/22																	
133	Submission of GA & RCC details of Slab layout details	10 days	Tue 01/11/22	Fri 11/11/22																	
134	Approval of GA & RCC details of Slab layout detail	20 days	Sat 12/11/22	Mon 05/12/22																	
135	Submission of GA & RCC details of beam layout of Roof	10 days	Fri 09/12/22	Tue 20/12/22																	
136	Approval of GA & RCC details of beam layout of R	20 days	Wed 21/12/22	Thu 12/01/23																	
137	Submission of doors windows details	10 days	Tue 17/01/23	Fri 27/01/23																	
138	Approval of doors windows details	20 days	Sat 28/01/23	Mon 20/02/23																	
139	Submission of sanitary & Plumbing details	10 days	Fri 24/02/23	Tue 07/03/23																	
140	Approval of sanitary & Plumbing details	20 days	Wed 08/03/23	Thu 30/03/23																	
141	<b>Store building &amp; store shed</b>	<b>134 days</b>	<b>Tue 16/08/22</b>	<b>Wed 18/01/23</b>																	
142	Submission of Architectural layout Plan, Elevation & section	10 days	Tue 16/08/22	Fri 26/08/22																	
143	Approval of Architectural layout Plan, Elevation & section	20 days	Sat 27/08/22	Mon 19/09/22																	
144	Submission of GA & RCC details of foundation, Plinth beam layout, Column	10 days	Sat 27/08/22	Wed 07/09/22																	
145	Approval of GA & RCC details of foundation, Plinth beam layout, Column	20 days	Thu 08/09/22	Fri 30/09/22																	
146	Submission of GA & RCC details of Slab layout details	10 days	Thu 08/09/22	Mon 19/09/22																	
147	Approval of GA & RCC details of Slab layout	20 days	Tue 20/09/22	Wed 12/10/22																	
148	Submission of GA & RCC details of indoor store & roof for outdoor store	10 days	Thu 13/10/22	Mon 24/10/22																	
149	Approval of GA & RCC details of indoor store & roof for outdoor store	20 days	Tue 25/10/22	Wed 16/11/22																	
150	Submission of doors windows details	7 days	Thu 17/11/22	Thu 24/11/22																	
151	Approval of doors windows details	20 days	Fri 25/11/22	Sat 17/12/22																	
152	Submission of sanitary & Plumbing details	7 days	Mon 19/12/22	Mon 26/12/22																	
153	Approval of sanitary & Plumbing details	20 days	Tue 27/12/22	Wed 18/01/23																	
154	<b>Pump House &amp; Security Booth</b>	<b>138 days</b>	<b>Tue 20/09/22</b>	<b>Mon 27/02/23</b>																	
155	Submission of Architectural layout Plan, Elevation & section	10 days	Tue 20/09/22	Fri 30/09/22																	
156	Approval of Architectural layout Plan, Elevation & section	20 days	Sat 01/10/22	Mon 24/10/22																	
157	Submission of GA & RCC details of foundation, Plinth beam layout, Column	7 days	Tue 25/10/22	Tue 01/11/22																	
158	Approval of GA & RCC details of foundation, Plinth beam layout, Column	20 days	Wed 02/11/22	Thu 24/11/22																	
159	Submission of GA & RCC details of Slab layout details	7 days	Fri 25/11/22	Fri 02/12/22																	
160	Approval of GA & RCC details of Slab layout detail	20 days	Sat 03/12/22	Mon 26/12/22																	
161	Submission of GA & RCC details of beam layout of Roof	7 days	Tue 27/12/22	Tue 03/01/23																	
162	Approval of GA & RCC details of beam layout of R	20 days	Wed 04/01/23	Thu 26/01/23																	

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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024									
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
163	Submission of doors windows details	7 days	Fri 27/01/23	Fri 03/02/23																	
164	Approval of doors windows details	20 days	Sat 04/02/23	Mon 27/02/23																	
165	<b>Security Barrack</b>	<b>138 days</b>	<b>Tue 25/10/22</b>	<b>Mon 03/04/23</b>																	
166	Submission of Architectural layout Plan, Elevation	10 days	Tue 25/10/22	Fri 04/11/22																	
167	Approval of Architectural layout Plan, Elevation & t	20 days	Sat 05/11/22	Mon 28/11/22																	
168	Submission of GA & RCC details of foundation, Pl	7 days	Tue 29/11/22	Tue 06/12/22																	
169	Approval of GA & RCC details of foundation, Plin	20 days	Wed 07/12/22	Thu 29/12/22																	
170	Submission of GA & RCC details of Slab layout de	7 days	Fri 30/12/22	Fri 06/01/23																	
171	Approval of GA & RCC details of Slab layout detail	20 days	Sat 07/01/23	Mon 30/01/23																	
172	Submission of GA & RCC details of beam layout o	7 days	Tue 31/01/23	Tue 07/02/23																	
173	Approval of GA & RCC details of beam layout of R	20 days	Wed 08/02/23	Thu 02/03/23																	
174	Submission of doors windows details	7 days	Fri 03/03/23	Fri 10/03/23																	
175	Approval of doors windows details	20 days	Sat 11/03/23	Mon 03/04/23																	
176	<b>Misc</b>	<b>286 days</b>	<b>Fri 04/03/22</b>	<b>Tue 31/01/23</b>																	
177	Submission of Design/ drawing of Fire Wall	15 days	Tue 25/10/22	Thu 10/11/22																	
178	Approval of Design/ drawing of Fire Wall	20 days	Fri 11/11/22	Sat 03/12/22																	
179	Submission of Design/ drawing of water tank for fire fighting	15 days	Sat 05/11/22	Tue 22/11/22																	
180	Approval of Design/ drawing of water tank for fire fighting	20 days	Wed 23/11/22	Thu 15/12/22																	
181	Submission of Design/ drawing of burnt oil pit	15 days	Sat 05/11/22	Tue 22/11/22																	
182	Approval of Design/ drawing of burnt oil pit	20 days	Wed 23/11/22	Thu 15/12/22																	
183	Submission of Design/ drawing of RCC culvert	15 days	Fri 04/03/22	Mon 21/03/22																	
184	Approval of Design/ drawing of RCC culvert	20 days	Tue 22/03/22	Wed 13/04/22																	
185	Submission of Design/ drawing of Sump pit	10 days	Fri 18/12/22	Tue 27/12/22																	
186	Approval of Design/ drawing of Sump pit	30 days	Wed 28/12/22	Tue 31/01/23																	
187	<b>Mechanical Engineering</b>	<b>196 days</b>	<b>Thu 17/11/22</b>	<b>Mon 03/07/23</b>																	
188	Submission of Design calculation report / drawing of Ventilation System	15 days	Fri 10/03/23	Mon 27/03/23																	
189	Approval of Design calculation report / drawing of Ventilation System	20 days	Tue 28/03/23	Wed 19/04/23																	
190	Submission of Design calculation report / drawing of Fire fighting System	10 days	Thu 17/11/22	Mon 28/11/22																	
191	Approval of Design calculation report / drawing of Fire fighting System	20 days	Tue 29/11/22	Wed 21/12/22																	
192	Submission of Design calculation report of Air Conditioning System	10 days	Thu 20/04/23	Mon 01/05/23																	
193	Approval of Design calculation report of Air Conditioning System	20 days	Tue 02/05/23	Wed 24/05/23																	
194	Submission of Drawing of CCTV System	7 days	Fri 02/06/23	Fri 09/06/23																	
195	Approval of Drawing of CCTV System	20 days	Sat 10/06/23	Mon 03/07/23																	
196	<b>MATERIAL PROCUREMENT &amp; DELIVERY AT SITE</b>	<b>681 days</b>	<b>Thu 17/02/22</b>	<b>Sat 20/04/24</b>																	
197	<b>220 KV GIS and associated busducts &amp; SF6 to air Bushing</b>	<b>276 days</b>	<b>Fri 15/04/22</b>	<b>Thu 02/03/23</b>																	
198	Supplier Finalization /Placement of P.O	15 days	Fri 15/04/22	Mon 02/05/22																	
199	Submission of drawings/ GTP etc	30 days	Tue 03/05/22	Mon 06/06/22																	



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



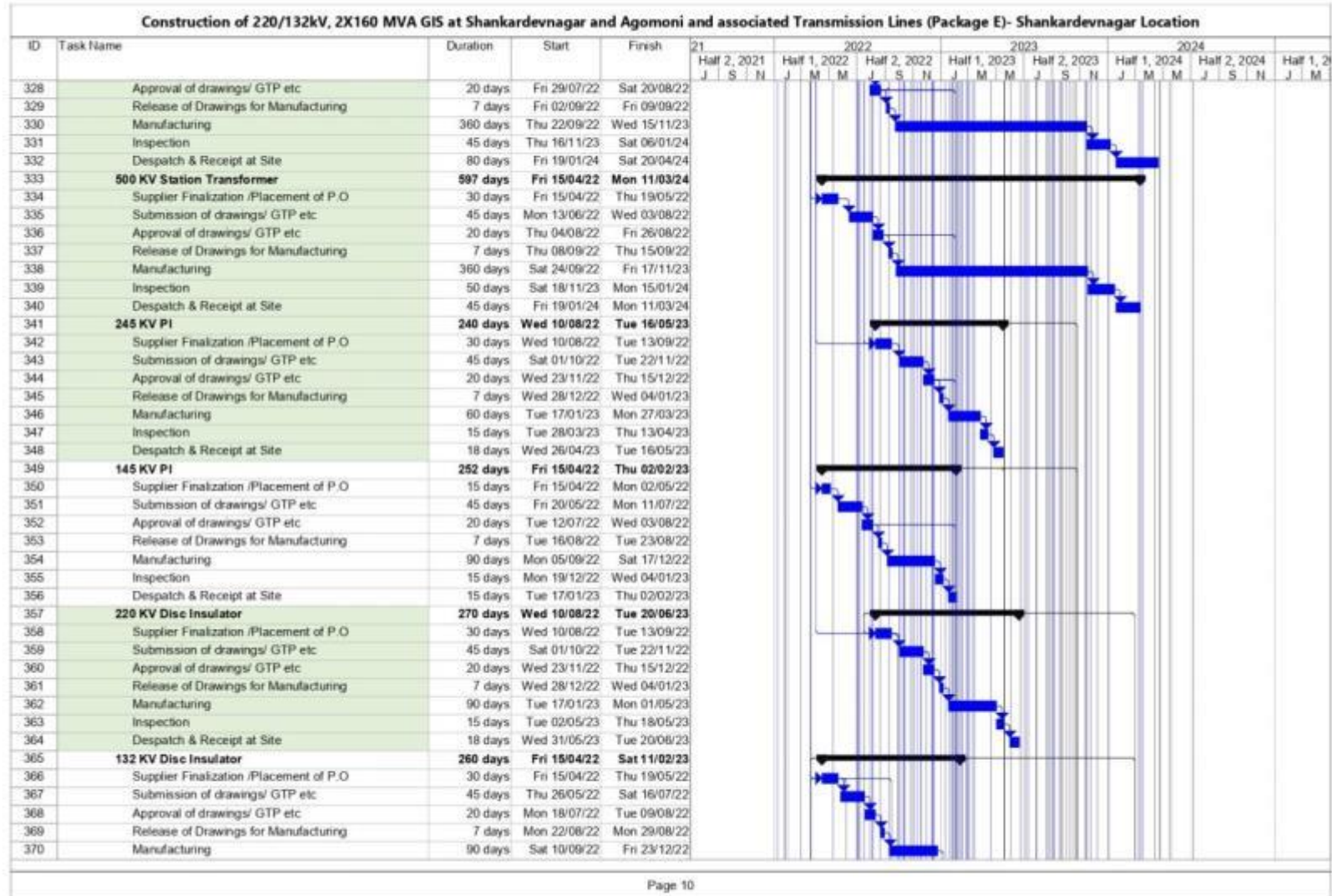
Assam Intra-State Transmission System Enhancement Project, Phase-1

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024									
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
243	Inspection	50 days	Thu 18/11/23	Fri 12/01/24																	
244	Despatch & Receipt at Site	60 days	Mon 22/01/24	Sat 30/03/24																	
245	<b>Main ACDB, Sub ACDB, DCDB, MLDB, ELDB, HVAC DB, MCB DB.</b>	<b>484 days</b>	<b>Wed 10/08/22</b>	<b>Sat 24/02/24</b>																	
246	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
247	Submission of drawings/ GTP etc	30 days	Tue 15/11/22	Mon 19/12/22																	
248	Approval of drawings/ GTP etc	20 days	Tue 20/12/22	Wed 11/01/23																	
249	Release of Drawings for Manufacturing	10 days	Fri 20/01/23	Tue 31/01/23																	
250	Manufacturing	210 days	Thu 09/02/23	Wed 11/10/23																	
251	Inspection	50 days	Thu 12/10/23	Fri 08/12/23																	
252	Despatch & Receipt at Site	60 days	Mon 18/12/23	Sat 24/02/24																	
253	<b>DG Set (Including all accessories )</b>	<b>447 days</b>	<b>Wed 10/08/22</b>	<b>Fri 12/01/24</b>																	
254	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
255	Submission of drawings/ GTP etc	30 days	Mon 03/10/22	Sat 05/11/22																	
256	Approval of drawings/ GTP etc	20 days	Mon 07/11/22	Tue 29/11/22																	
257	Release of Drawings for Manufacturing	10 days	Thu 08/12/22	Mon 19/12/22																	
258	Manufacturing	210 days	Wed 28/12/22	Tue 29/08/23																	
259	Inspection	50 days	Wed 30/08/23	Thu 26/10/23																	
260	Despatch & Receipt at Site	60 days	Sat 04/11/23	Fri 12/01/24																	
261	<b>220 KV,33kv LA</b>	<b>283 days</b>	<b>Wed 10/08/22</b>	<b>Wed 05/07/23</b>																	
262	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
263	Submission of drawings/ GTP etc	45 days	Sat 01/10/22	Tue 22/11/22																	
264	Approval of drawings/ GTP etc	20 days	Wed 23/11/22	Thu 15/12/22																	
265	Release of Drawings for Manufacturing	7 days	Thu 01/12/22	Thu 08/12/22																	
266	Manufacturing	120 days	Sat 17/12/22	Fri 05/05/23																	
267	Inspection	15 days	Sat 06/05/23	Tue 23/05/23																	
268	Despatch & Receipt at Site	30 days	Thu 01/06/23	Wed 05/07/23																	
269	<b>132 KV LA</b>	<b>258 days</b>	<b>Fri 15/04/22</b>	<b>Thu 08/02/23</b>																	
270	Supplier Finalization /Placement of P.O	15 days	Fri 15/04/22	Mon 02/05/22																	
271	Submission of drawings/ GTP etc	45 days	Tue 07/06/22	Thu 28/07/22																	
272	Approval of drawings/ GTP etc	20 days	Fri 29/07/22	Sat 20/08/22																	
273	Release of Drawings for Manufacturing	7 days	Sat 06/08/22	Sat 13/08/22																	
274	Manufacturing	110 days	Tue 23/08/22	Wed 28/12/22																	
275	Inspection	15 days	Thu 29/12/22	Sat 14/01/23																	
276	Despatch & Receipt at Site	15 days	Tue 24/01/23	Thu 09/02/23																	
277	<b>220 KV Wavetrap</b>	<b>276 days</b>	<b>Wed 10/08/22</b>	<b>Tue 27/06/23</b>																	
278	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
279	Submission of drawings/ GTP etc	45 days	Wed 14/09/22	Fri 04/11/22																	
280	Approval of drawings/ GTP etc	20 days	Sat 05/11/22	Mon 28/11/22																	
281	Release of Drawings for Manufacturing	7 days	Wed 07/12/22	Wed 14/12/22																	
282	Manufacturing	120 days	Fri 23/12/22	Thu 11/05/23																	
283	Inspection	15 days	Fri 12/05/23	Mon 29/05/23																	
284	Despatch & Receipt at Site	18 days	Wed 07/06/23	Tue 27/06/23																	

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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	2021		2022			2023			2024								
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
285	<b>220 KV CVT</b>	<b>255 days</b>	<b>Wed 10/08/22</b>	<b>Fri 02/06/23</b>																	
286	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
287	Submission of drawings/ GTP etc	45 days	Wed 14/09/22	Fri 04/11/22																	
288	Approval of drawings/ GTP etc	20 days	Sat 05/11/22	Mon 28/11/22																	
289	Release of Drawings for Manufacturing	7 days	Sat 10/12/22	Sat 17/12/22																	
290	Manufacturing	90 days	Fri 30/12/22	Thu 13/04/23																	
291	Inspection	15 days	Fri 14/04/23	Mon 01/05/23																	
292	Despatch & Receipt at Site	18 days	Sat 13/05/23	Fri 02/06/23																	
293	<b>145 KV circuit Breaker</b>	<b>216 days</b>	<b>Fri 03/06/22</b>	<b>Thu 09/02/23</b>																	
294	Supplier Finalization /Placement of P.O	15 days	Fri 03/06/22	Mon 20/06/22																	
295	Submission of drawings/ GTP etc	45 days	Tue 21/06/22	Thu 11/08/22																	
296	Approval of drawings/ GTP etc	20 days	Fri 12/06/22	Sat 03/08/22																	
297	Release of Drawings for Manufacturing	7 days	Thu 08/08/22	Thu 15/08/22																	
298	Manufacturing	90 days	Tue 20/09/22	Mon 02/01/23																	
299	Inspection	15 days	Tue 03/01/23	Thu 19/01/23																	
300	Despatch & Receipt at Site	15 days	Tue 24/01/23	Thu 09/02/23																	
301	<b>132 KV CT</b>	<b>171 days</b>	<b>Wed 10/08/22</b>	<b>Fri 24/02/23</b>																	
302	Supplier Finalization /Placement of P.O	15 days	Wed 10/08/22	Fri 26/08/22																	
303	Submission of drawings/ GTP etc	30 days	Sat 27/08/22	Fri 30/09/22																	
304	Approval of drawings/ GTP etc	20 days	Sat 01/10/22	Mon 24/10/22																	
305	Release of Drawings for Manufacturing	7 days	Fri 28/10/22	Fri 04/11/22																	
306	Manufacturing	60 days	Wed 09/11/22	Tue 17/01/23																	
307	Inspection	15 days	Wed 18/01/23	Fri 03/02/23																	
308	Despatch & Receipt at Site	15 days	Wed 08/02/23	Fri 24/02/23																	
309	<b>245KV,33 KV isolator &amp; HCDB type with HGF</b>	<b>315 days</b>	<b>Wed 10/08/22</b>	<b>Fri 11/08/23</b>																	
310	Supplier Finalization /Placement of P.O	30 days	Wed 10/08/22	Tue 13/09/22																	
311	Submission of drawings/ GTP etc	45 days	Wed 19/10/22	Fri 09/12/22																	
312	Approval of drawings/ GTP etc	20 days	Sat 10/12/22	Mon 02/01/23																	
313	Release of Drawings for Manufacturing	7 days	Sat 14/01/23	Sat 21/01/23																	
314	Manufacturing	120 days	Fri 03/02/23	Thu 22/06/23																	
315	Inspection	15 days	Fri 23/06/23	Mon 10/07/23																	
316	Despatch & Receipt at Site	18 days	Sat 22/07/23	Fri 11/08/23																	
317	<b>145KV isolator &amp; HCDB type with HGF</b>	<b>240 days</b>	<b>Fri 29/04/22</b>	<b>Thu 02/02/23</b>																	
318	Supplier Finalization /Placement of P.O	15 days	Fri 29/04/22	Mon 16/05/22																	
319	Submission of drawings/ GTP etc	45 days	Fri 20/05/22	Mon 11/07/22																	
320	Approval of drawings/ GTP etc	20 days	Tue 12/07/22	Wed 03/08/22																	
321	Release of Drawings for Manufacturing	7 days	Tue 16/08/22	Tue 23/08/22																	
322	Manufacturing	90 days	Mon 05/09/22	Sat 17/12/22																	
323	Inspection	15 days	Mon 19/12/22	Wed 04/01/23																	
324	Despatch & Receipt at Site	15 days	Tue 17/01/23	Thu 02/02/23																	
325	<b>160 MVA Power Transformer</b>	<b>632 days</b>	<b>Fri 15/04/22</b>	<b>Sat 20/04/24</b>																	
326	Supplier Finalization /Placement of P.O	30 days	Fri 15/04/22	Thu 19/05/22																	
327	Submission of drawings/ GTP etc	30 days	Fri 24/06/22	Thu 28/07/22																	

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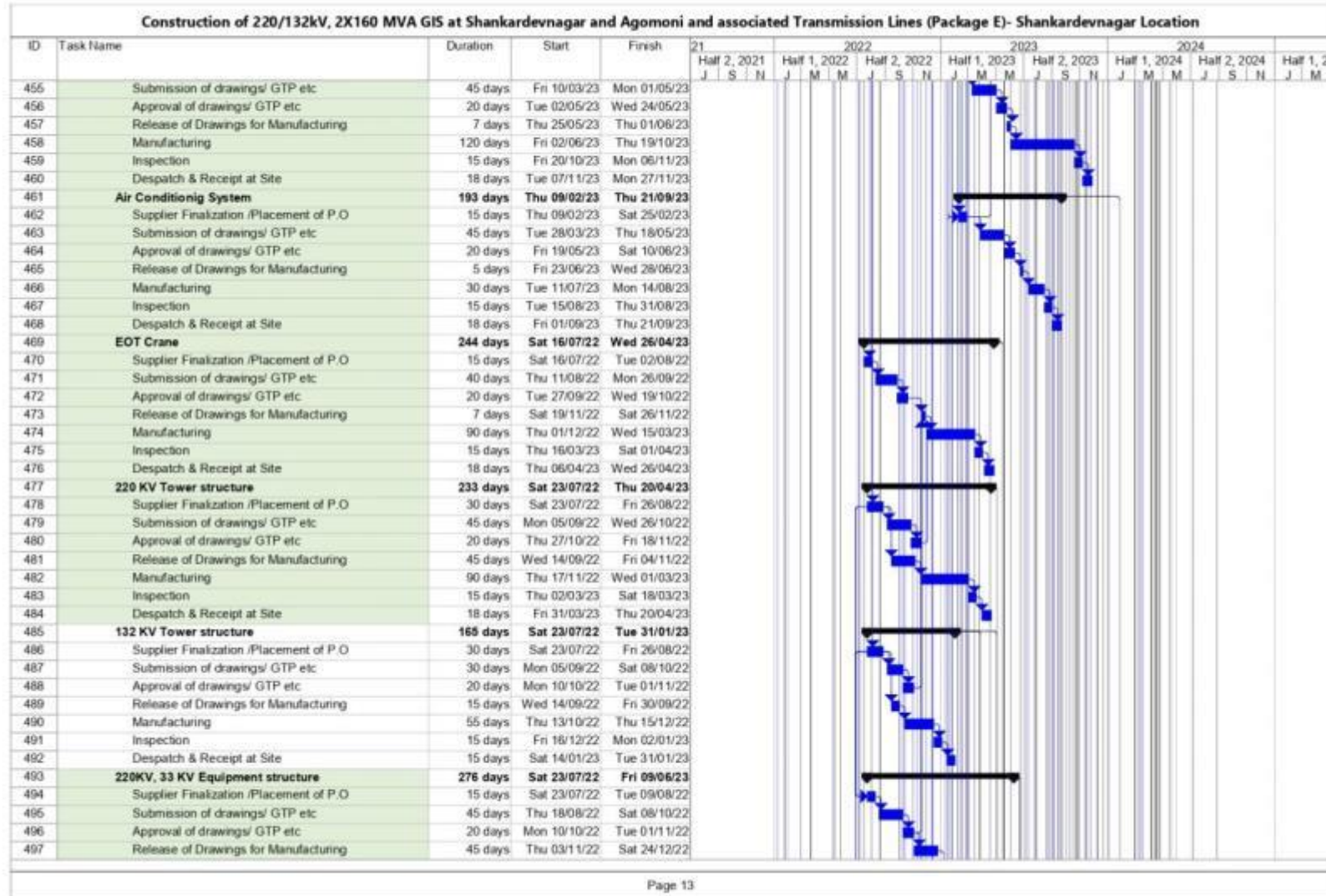
Assam Intra-State Transmission System Enhancement Project, Phase-1

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	2022																
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024										
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
371	Inspection	15 days	Sat 24/12/22	Tue 10/01/23																	
372	Despatch & Receipt at Site	18 days	Mon 23/01/23	Sat 11/02/23																	
373	<b>220 KV &amp; 33KV Hardware</b>	<b>387 days</b>	<b>Wed 14/09/22</b>	<b>Fri 08/12/23</b>																	
374	Supplier Finalization /Placement of P.O	30 days	Wed 14/09/22	Tue 18/10/22																	
375	Submission of drawings/ GTP etc	45 days	Wed 01/02/23	Fri 24/03/23																	
376	Approval of drawings/ GTP etc	20 days	Sat 25/03/23	Mon 17/04/23																	
377	Release of Drawings for Manufacturing	7 days	Sat 29/04/23	Sat 06/05/23																	
378	Manufacturing	120 days	Fri 19/05/23	Thu 05/10/23																	
379	Inspection	15 days	Fri 06/10/23	Mon 23/10/23																	
380	Despatch & Receipt at Site	30 days	Sat 04/11/23	Fri 08/12/23																	
381	<b>132 KV Hardware</b>	<b>304 days</b>	<b>Fri 15/04/22</b>	<b>Tue 04/04/23</b>																	
382	Supplier Finalization /Placement of P.O	30 days	Fri 15/04/22	Thu 19/05/22																	
383	Submission of drawings/ GTP etc	45 days	Sat 28/05/22	Tue 19/07/22																	
384	Approval of drawings/ GTP etc	20 days	Wed 20/07/22	Thu 11/08/22																	
385	Release of Drawings for Manufacturing	7 days	Wed 24/08/22	Wed 31/08/22																	
386	Manufacturing	120 days	Tue 13/09/22	Mon 30/01/23																	
387	Inspection	15 days	Tue 31/01/23	Thu 16/02/23																	
388	Despatch & Receipt at Site	30 days	Wed 01/03/23	Tue 04/04/23																	
389	<b>Conductor</b>	<b>240 days</b>	<b>Tue 07/06/22</b>	<b>Mon 13/03/23</b>																	
390	Supplier Finalization /Placement of P.O	30 days	Tue 07/06/22	Mon 11/07/22																	
391	Submission of drawings/ GTP etc	45 days	Fri 29/07/22	Mon 19/09/22																	
392	Approval of drawings/ GTP etc	20 days	Tue 20/09/22	Wed 12/10/22																	
393	Release of Drawings for Manufacturing	7 days	Tue 25/10/22	Tue 01/11/22																	
394	Manufacturing	60 days	Mon 14/11/22	Sat 21/01/23																	
395	Inspection	15 days	Mon 23/01/23	Wed 08/02/23																	
396	Despatch & Receipt at Site	18 days	Tue 21/02/23	Mon 13/03/23																	
397	<b>220 KV &amp; 33 KV Clamp Connector</b>	<b>387 days</b>	<b>Wed 14/09/22</b>	<b>Fri 08/12/23</b>																	
398	Supplier Finalization /Placement of P.O	30 days	Wed 14/09/22	Tue 18/10/22																	
399	Submission of drawings/ GTP etc	45 days	Wed 01/02/23	Fri 24/03/23																	
400	Approval of drawings/ GTP etc	20 days	Sat 25/03/23	Mon 17/04/23																	
401	Release of Drawings for Manufacturing	7 days	Sat 29/04/23	Sat 06/05/23																	
402	Manufacturing	120 days	Fri 19/05/23	Thu 05/10/23																	
403	Inspection	15 days	Fri 06/10/23	Mon 23/10/23																	
404	Despatch & Receipt at Site	30 days	Sat 04/11/23	Fri 08/12/23																	
405	<b>132 KV Clamp Connector</b>	<b>299 days</b>	<b>Fri 15/04/22</b>	<b>Wed 28/03/23</b>																	
406	Supplier Finalization /Placement of P.O	30 days	Fri 15/04/22	Thu 19/05/22																	
407	Submission of drawings/ GTP etc	45 days	Mon 23/05/22	Wed 13/07/22																	
408	Approval of drawings/ GTP etc	20 days	Thu 14/07/22	Fri 05/08/22																	
409	Release of Drawings for Manufacturing	7 days	Thu 18/08/22	Thu 25/08/22																	
410	Manufacturing	120 days	Wed 07/09/22	Tue 24/01/23																	
411	Inspection	15 days	Wed 25/01/23	Fri 10/02/23																	
412	Despatch & Receipt at Site	30 days	Thu 23/02/23	Wed 29/03/23																	

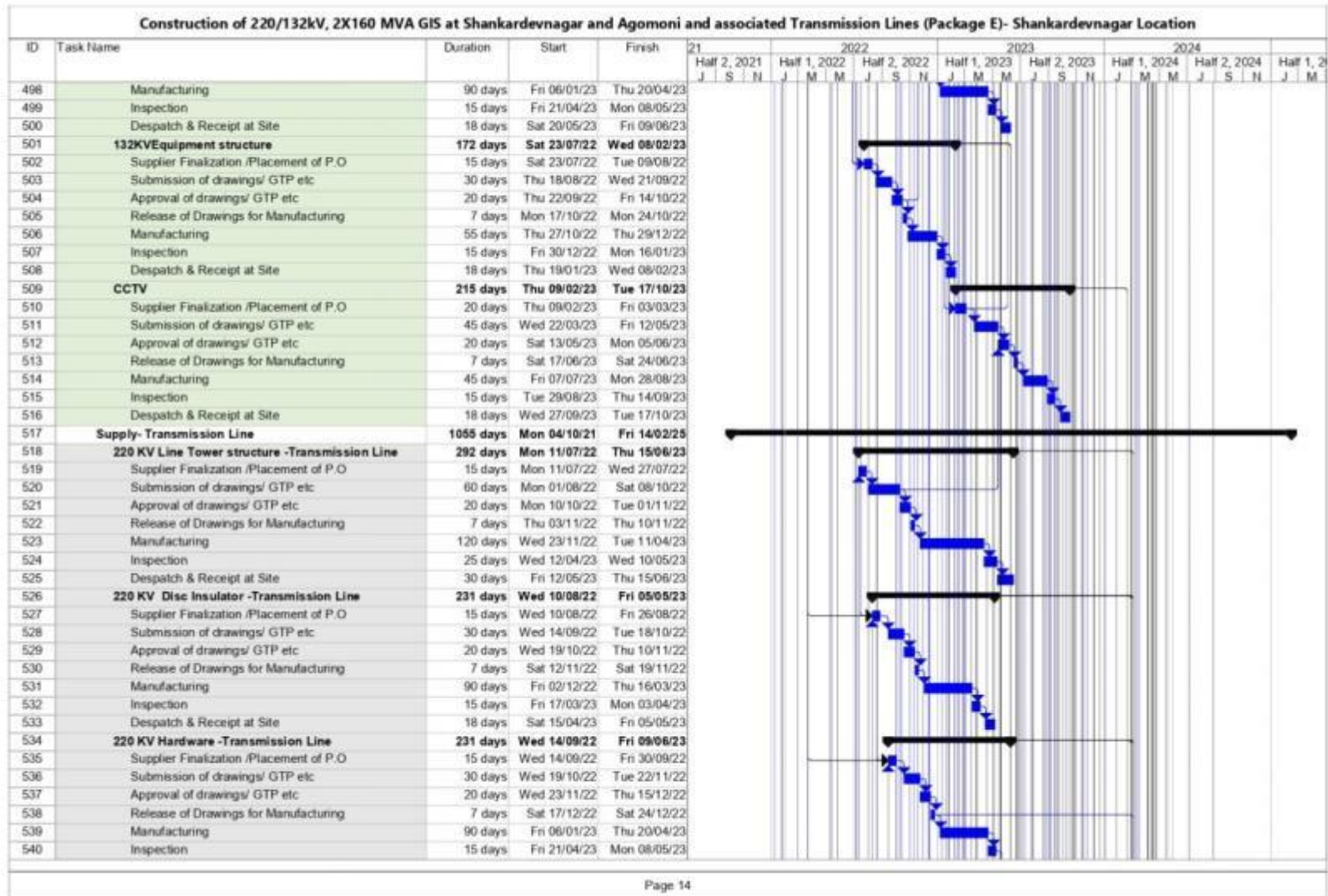
Assam Intra-State Transmission System Enhancement Project, Phase-1

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	21	2022		2023		2024											
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
413	<b>Earthing Material ( Rod, GI Riser, Earth pipe) complete</b>	<b>332 days</b>	<b>Sat 18/06/22</b>	<b>Mon 10/07/23</b>																	
414	Supplier Finalization /Placement of P.O	15 days	Sat 18/06/22	Tue 05/07/22																	
415	Submission of drawings/ GTP etc	15 days	Mon 22/08/22	Wed 07/09/22																	
416	Approval of drawings/ GTP etc	20 days	Thu 08/09/22	Fri 30/09/22																	
417	Release of Drawings for Manufacturing	7 days	Thu 13/10/22	Thu 20/10/22																	
418	Manufacturing	120 days	Wed 02/11/22	Tue 21/03/23																	
419	Inspection	50 days	Wed 22/03/23	Thu 18/05/23																	
420	Despatch & Receipt at Site	45 days	Fri 19/05/23	Mon 10/07/23																	
421	<b>1.1 KV Power &amp; CONTROL CABLES</b>	<b>261 days</b>	<b>Mon 20/06/22</b>	<b>Wed 19/04/23</b>																	
422	Supplier Finalization /Placement of P.O	15 days	Mon 20/06/22	Wed 06/07/22																	
423	Submission of drawings/ GTP etc	45 days	Wed 31/08/22	Fri 21/10/22																	
424	Approval of drawings/ GTP etc	20 days	Sat 22/10/22	Mon 14/11/22																	
425	Release of Drawings for Manufacturing	10 days	Wed 23/11/22	Sat 03/12/22																	
426	Manufacturing	60 days	Tue 13/12/22	Mon 20/02/23																	
427	Inspection	20 days	Tue 21/02/23	Wed 15/03/23																	
428	Despatch & Receipt at Site	30 days	Thu 16/03/23	Wed 19/04/23																	
429	<b>BMK, Marshalling Box, JB, danger plate , phase plate, number plate, furniture etc complete</b>	<b>253 days</b>	<b>Sat 27/06/22</b>	<b>Sat 17/06/23</b>																	
430	Supplier Finalization /Placement of P.O	30 days	Sat 27/06/22	Fri 30/09/22																	
431	Submission of drawings/ GTP etc	45 days	Wed 26/10/22	Fri 16/12/22																	
432	Approval of drawings/ GTP etc	20 days	Sat 17/12/22	Mon 09/01/23																	
433	Release of Drawings for Manufacturing	7 days	Tue 10/01/23	Tue 17/01/23																	
434	Manufacturing	90 days	Thu 26/01/23	Wed 10/05/23																	
435	Inspection	15 days	Thu 11/05/23	Sat 27/05/23																	
436	Despatch & Receipt at Site	18 days	Mon 29/05/23	Sat 17/06/23																	
437	<b>FIRE FIGHTINGS SYSTEM</b>	<b>277 days</b>	<b>Thu 13/10/22</b>	<b>Thu 31/08/23</b>																	
438	Supplier Finalization /Placement of P.O	20 days	Thu 13/10/22	Fri 04/11/22																	
439	Submission of drawings/ GTP etc	60 days	Tue 29/11/22	Mon 06/02/23																	
440	Approval of drawings/ GTP etc	20 days	Tue 07/02/23	Wed 01/03/23																	
441	Release of Drawings for Manufacturing	5 days	Fri 03/03/23	Wed 08/03/23																	
442	Manufacturing	100 days	Thu 09/03/23	Mon 03/07/23																	
443	Inspection	20 days	Wed 05/07/23	Thu 27/07/23																	
444	Despatch & Receipt at Site	30 days	Fri 28/07/23	Thu 31/08/23																	
445	<b>ILLUMINATION</b>	<b>215 days</b>	<b>Thu 09/02/23</b>	<b>Tue 17/10/23</b>																	
446	Supplier Finalization /Placement of P.O	20 days	Thu 09/02/23	Fri 03/03/23																	
447	Submission of drawings/ GTP etc	45 days	Sat 04/03/23	Tue 25/04/23																	
448	Approval of drawings/ GTP etc	20 days	Wed 26/04/23	Thu 18/05/23																	
449	Release of Drawings for Manufacturing	7 days	Fri 19/05/23	Fri 26/05/23																	
450	Manufacturing	90 days	Sat 27/05/23	Fri 08/09/23																	
451	Inspection	15 days	Sat 09/09/23	Tue 26/09/23																	
452	Despatch & Receipt at Site	18 days	Wed 27/09/23	Tue 17/10/23																	
453	<b>Ventilation system at GIS Hall</b>	<b>250 days</b>	<b>Thu 09/02/23</b>	<b>Mon 27/11/23</b>																	
454	Supplier Finalization /Placement of P.O	15 days	Thu 09/02/23	Sat 25/02/23																	

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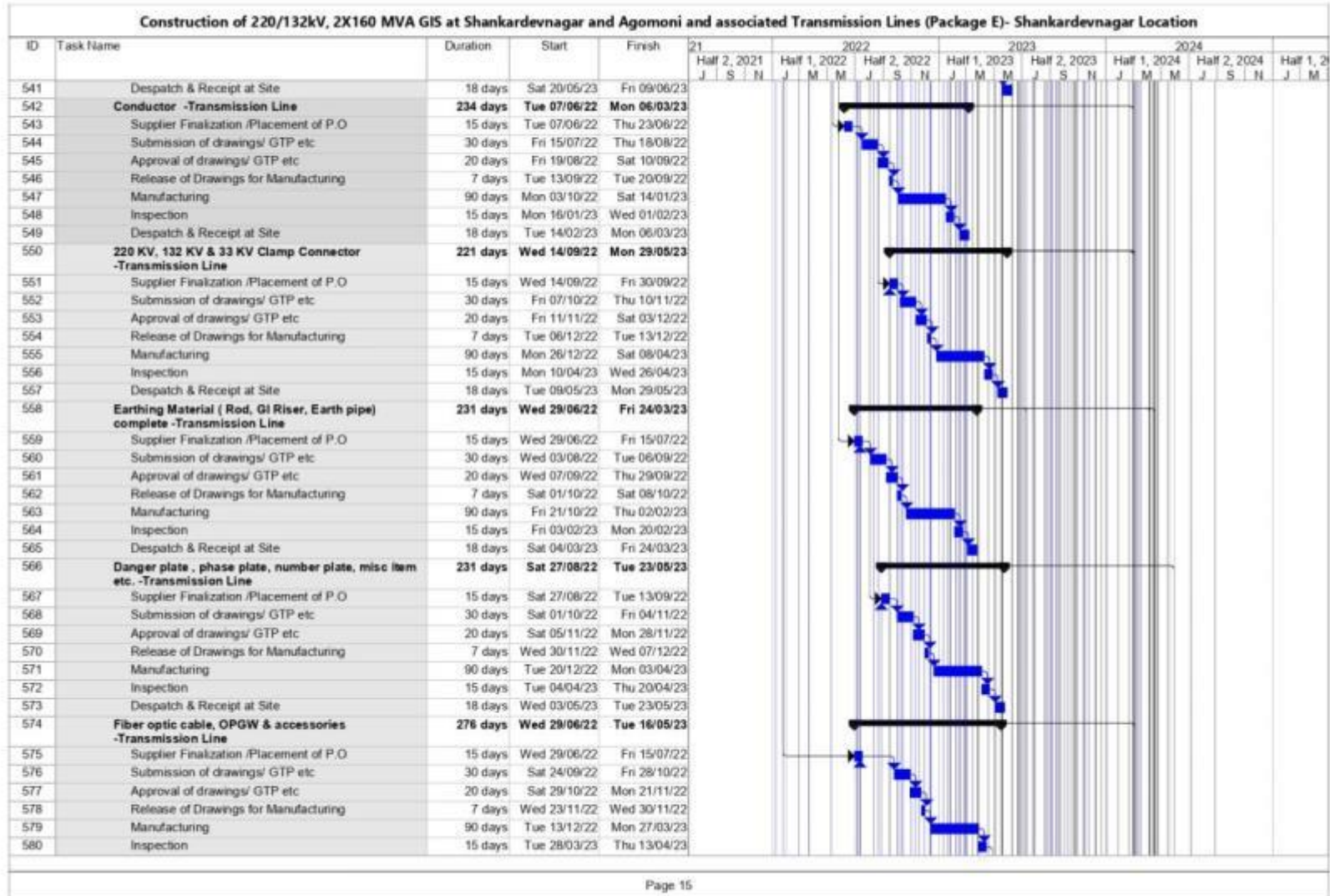


Assam Intra-State Transmission System Enhancement Project, Phase-1

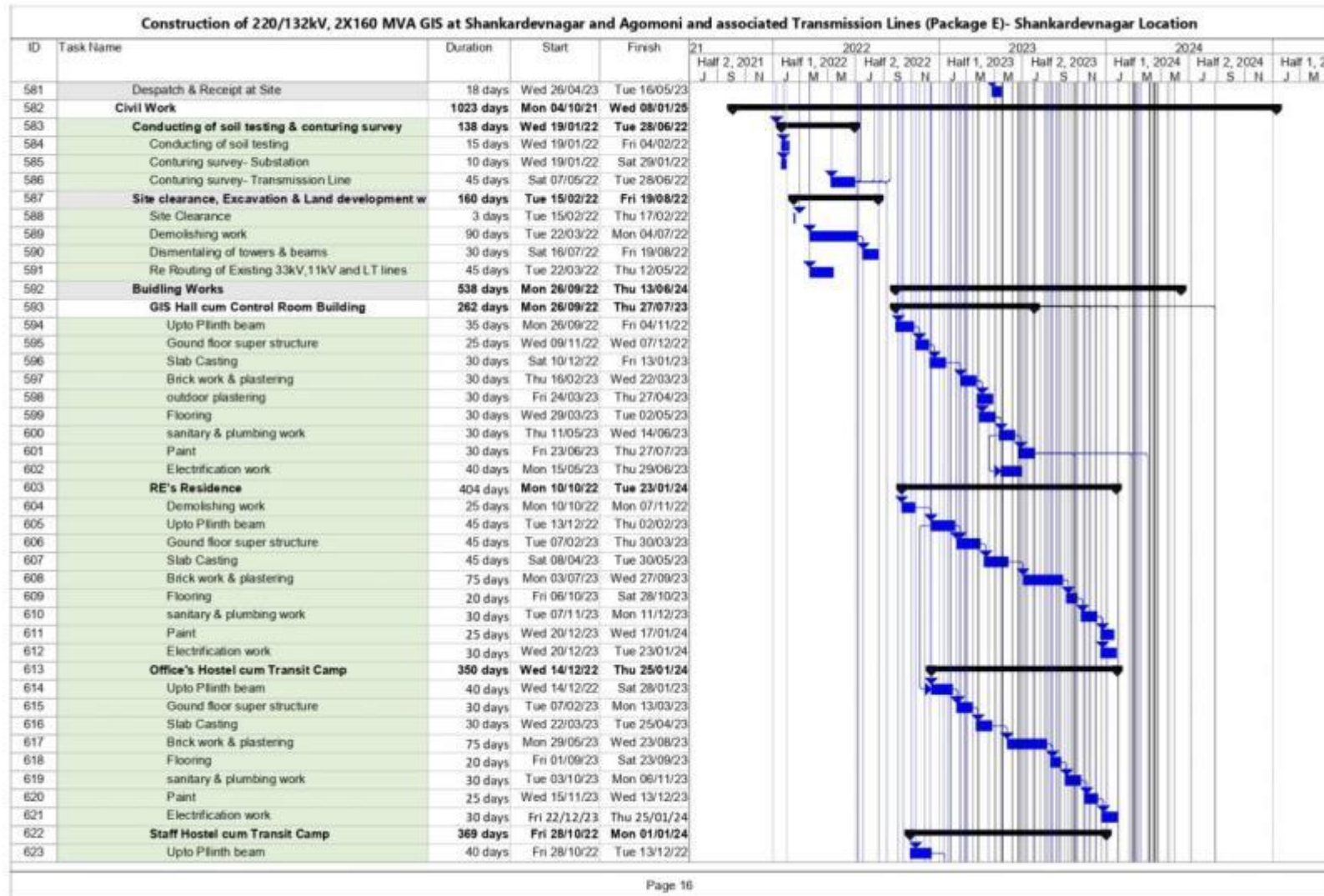




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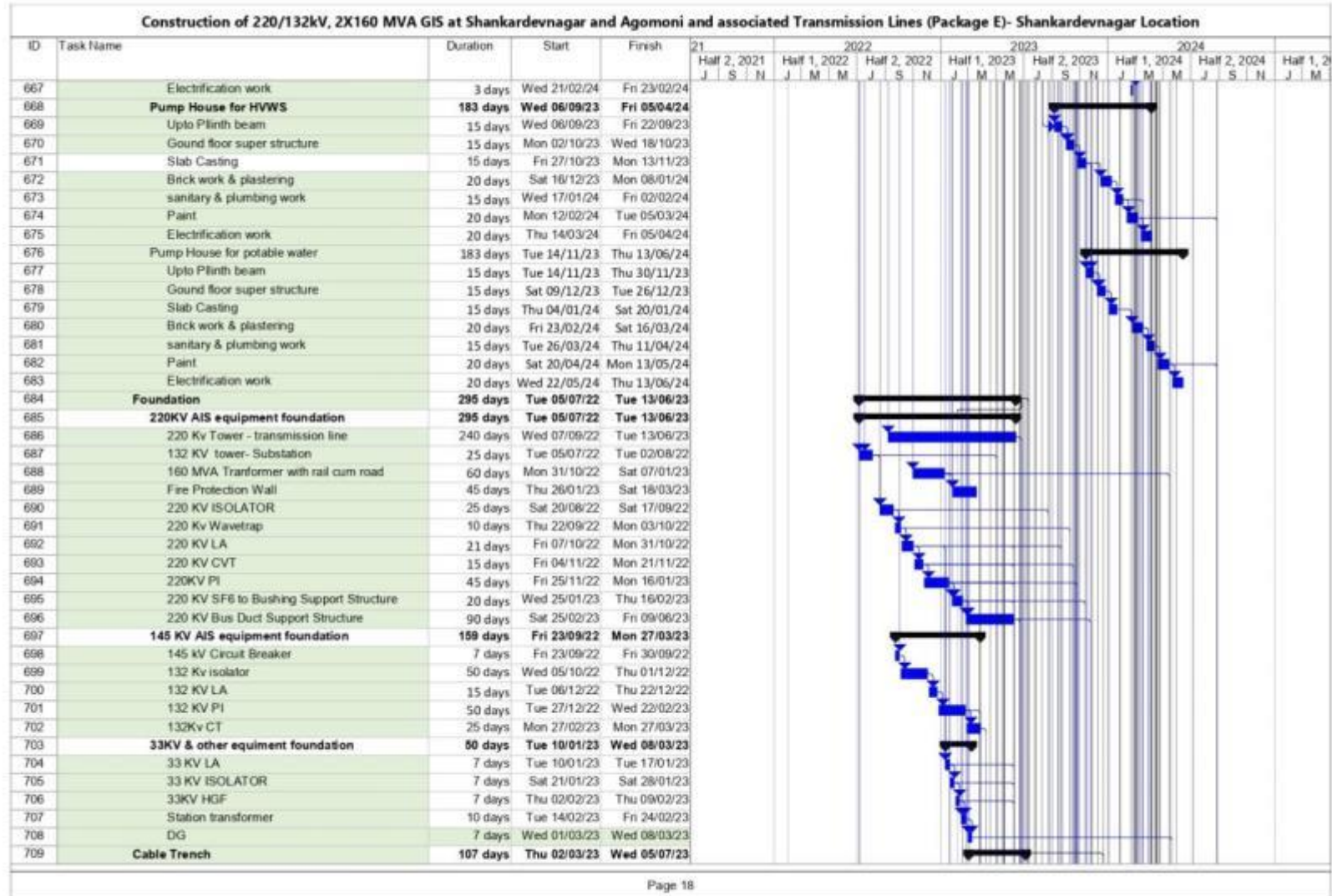
Assam Intra-State Transmission System Enhancement Project, Phase-1



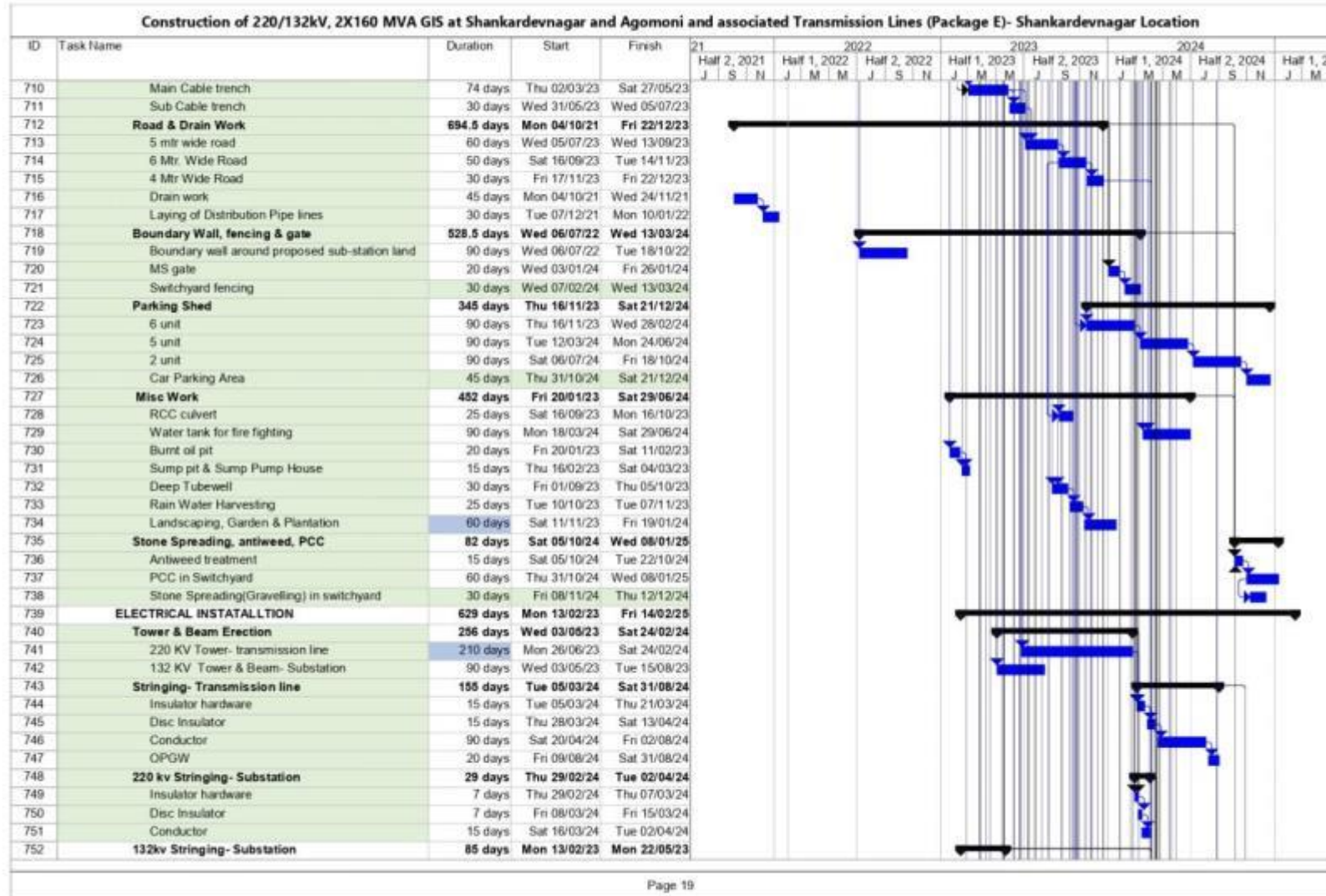
Assam Intra-State Transmission System Enhancement Project, Phase-1

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																						
ID	Task Name	Duration	Start	Finish	21	2022			2023			2024										
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024										
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M	
624	Ground floor super structure	30 days	Fri 13/01/23	Thu 16/02/23																		
625	Slab Casting	30 days	Sat 25/02/23	Fri 31/03/23																		
626	Brck work & plastering	75 days	Thu 04/05/23	Sat 29/07/23																		
627	Flooring	20 days	Tue 08/08/23	Wed 30/08/23																		
628	sanitary & plumbing work	30 days	Fri 08/09/23	Thu 12/10/23																		
629	Paint	25 days	Sat 21/10/23	Sat 18/11/23																		
630	Electrification work	30 days	Tue 28/11/23	Mon 01/01/24																		
631	<b>Security barrack</b>	<b>384 days</b>	<b>Tue 29/11/22</b>	<b>Mon 19/02/24</b>																		
632	Upto Plinth beam	40 days	Tue 29/11/22	Fri 13/01/23																		
633	Ground floor super structure	30 days	Fri 03/03/23	Thu 06/04/23																		
634	Slab Casting	30 days	Sat 15/04/23	Fri 19/05/23																		
635	Brck work & plastering	75 days	Thu 22/06/23	Sat 16/09/23																		
636	Flooring	20 days	Tue 26/09/23	Wed 18/10/23																		
637	sanitary & plumbing work	30 days	Fri 27/10/23	Thu 30/11/23																		
638	Paint	25 days	Sat 09/12/23	Sat 06/01/24																		
639	Electrification work	30 days	Tue 16/01/24	Mon 19/02/24																		
640	<b>Store Building</b>	<b>298 days</b>	<b>Sat 01/10/22</b>	<b>Wed 13/09/23</b>																		
641	Upto Plinth beam	30 days	Sat 01/10/22	Fri 04/11/22																		
642	Ground floor super structure	25 days	Thu 17/11/22	Thu 15/12/22																		
643	Slab Casting	30 days	Sat 24/12/22	Fri 27/01/23																		
644	Brck work & plastering	50 days	Thu 02/03/23	Fri 28/04/23																		
645	Flooring	20 days	Mon 08/05/23	Tue 30/05/23																		
646	sanitary & plumbing work	25 days	Thu 08/06/23	Thu 06/07/23																		
647	Paint	20 days	Sat 15/07/23	Mon 07/08/23																		
648	Electrification work	25 days	Wed 16/08/23	Wed 13/09/23																		
649	<b>Security booth</b>	<b>102 days</b>	<b>Sat 29/07/23</b>	<b>Fri 24/11/23</b>																		
650	Upto Plinth beam	15 days	Sat 29/07/23	Tue 15/08/23																		
651	Ground floor super structure	10 days	Sat 19/08/23	Wed 30/08/23																		
652	Slab Casting	15 days	Sat 02/09/23	Tue 19/09/23																		
653	Brck work & plastering	10 days	Mon 23/10/23	Thu 02/11/23																		
654	Flooring	3 days	Mon 06/11/23	Wed 08/11/23																		
655	sanitary & plumbing work	2 days	Sat 11/11/23	Mon 13/11/23																		
656	Paint	3 days	Thu 16/11/23	Sat 18/11/23																		
657	Electrification work	3 days	Wed 22/11/23	Fri 24/11/23																		
658	<b>Open store shed</b>	<b>150 days</b>	<b>Sat 02/09/23</b>	<b>Fri 23/02/24</b>																		
659	Excavation	15 days	Sat 02/09/23	Tue 19/09/23																		
660	Brck work upto plinth level	15 days	Fri 22/09/23	Mon 09/10/23																		
661	column casting	20 days	Fri 13/10/23	Sat 04/11/23																		
662	levelling & Compaction	15 days	Wed 08/11/23	Fri 24/11/23																		
663	Floor concreting	20 days	Tue 28/11/23	Wed 20/12/23																		
664	Column structure	20 days	Sat 23/12/23	Mon 15/01/24																		
665	Roof structure	10 days	Thu 18/01/24	Mon 29/01/24																		
666	Platform	15 days	Thu 01/02/24	Sat 17/02/24																		

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



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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	2021		2022		2023		2024										
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
753	Insulator hardware	7 days	Wed 05/04/23	Wed 12/04/23																	
754	Disc Insulator	7 days	Mon 13/02/23	Mon 20/02/23																	
755	Conductor	60 days	Tue 14/03/23	Mon 22/05/23																	
756	<b>Equipment Structure Erection</b>	<b>94 days</b>	<b>Tue 28/03/23</b>	<b>Fri 14/07/23</b>																	
757	220 kV	30 days	Sat 10/06/23	Fri 14/07/23																	
758	132 KV	45 days	Tue 28/03/23	Thu 18/05/23																	
759	33 KV	10 days	Sat 10/06/23	Wed 21/06/23																	
760	<b>EOT Crane</b>	<b>10 days</b>	<b>Mon 15/05/23</b>	<b>Thu 25/05/23</b>																	
761	EOT crane at GIS Hall	10 days	Mon 15/05/23	Thu 25/05/23																	
762	<b>GIS</b>	<b>60 days</b>	<b>Sat 24/06/23</b>	<b>Fri 01/09/23</b>																	
763	220 KV GIS	60 days	Sat 24/06/23	Fri 01/09/23																	
764	<b>Indoor panel</b>	<b>10 days</b>	<b>Fri 28/07/23</b>	<b>Tue 08/08/23</b>																	
765	<b>33 KV MCCB indoor panel</b>	<b>10 days</b>	<b>Fri 28/07/23</b>	<b>Tue 08/08/23</b>																	
766	<b>Outdoor equipment Erection</b>	<b>113 days</b>	<b>Wed 15/05/24</b>	<b>Mon 23/09/24</b>																	
767	<b>160 MVA Tranformer (Including oil Filtration)</b>	<b>113 days</b>	<b>Wed 15/05/24</b>	<b>Mon 23/09/24</b>																	
768	<b>160 MVA Tranformer-1</b>	<b>80 days</b>	<b>Wed 15/05/24</b>	<b>Thu 15/08/24</b>																	
769	<b>Tranformer-1</b>	<b>80 days</b>	<b>Wed 15/05/24</b>	<b>Thu 15/08/24</b>																	
770	Erection	40 days	Wed 15/05/24	Sat 29/08/24																	
771	Oil Filtration	20 days	Wed 24/07/24	Thu 15/08/24																	
772	<b>160 MVA Tranformer-2</b>	<b>63 days</b>	<b>Fri 12/07/24</b>	<b>Mon 23/09/24</b>																	
773	<b>Tranformer-2</b>	<b>63 days</b>	<b>Fri 12/07/24</b>	<b>Mon 23/09/24</b>																	
774	Erection	40 days	Fri 12/07/24	Tue 27/08/24																	
775	Oil Filtration	20 days	Sat 31/08/24	Mon 23/09/24																	
776	<b>220kv, 33KV &amp; other equipment erection</b>	<b>174 days</b>	<b>Thu 24/08/23</b>	<b>Wed 13/03/24</b>																	
777	220 KV Isolator	25 days	Thu 24/08/23	Thu 21/09/23																	
778	220 KV LA	15 days	Fri 22/09/23	Mon 09/10/23																	
779	220 KV Wavetrap	7 days	Tue 10/10/23	Tue 17/10/23																	
780	220 KV CVT	7 days	Wed 18/10/23	Wed 25/10/23																	
781	220KV PI	15 days	Thu 26/10/23	Sat 11/11/23																	
782	220 KV SF6 Bushing	10 days	Mon 13/11/23	Thu 23/11/23																	
783	220 KV Bus Duct	20 days	Fri 24/11/23	Sat 16/12/23																	
784	33 KV LA	7 days	Sat 02/12/23	Sat 09/12/23																	
785	33 KV ISOLATOR	7 days	Mon 11/12/23	Mon 18/12/23																	
786	33KV HGF	7 days	Tue 19/12/23	Tue 26/12/23																	
787	Station tranformer	7 days	Wed 06/03/24	Wed 13/03/24																	
788	<b>132kv equipment erection</b>	<b>25 days</b>	<b>Fri 19/05/23</b>	<b>Fri 16/06/23</b>																	
789	145 Kv Circuit Breaker	7 days	Fri 19/05/23	Fri 26/05/23																	
790	132 Kv isolator	25 days	Fri 19/05/23	Fri 16/06/23																	
791	132 KV LA	15 days	Fri 19/05/23	Mon 05/06/23																	
792	132 KV PI	15 days	Fri 19/05/23	Mon 05/06/23																	
793	132kv CT	7 days	Fri 19/05/23	Fri 26/05/23																	
794	<b>Clamps &amp; Connector ERECTION</b>	<b>30 days</b>	<b>Thu 18/04/24</b>	<b>Wed 22/05/24</b>																	
795	Clamps & connector	30 days	Thu 18/04/24	Wed 22/05/24																	

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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
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					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2024									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
796	Misc outdoor Works	54 days	Wed 29/05/24	Tue 30/07/24																	
797	BMK	7 days	Wed 29/05/24	Wed 05/06/24																	
798	Marshalling Box	7 days	Thu 11/07/24	Thu 18/07/24																	
799	Other Misc works	10 days	Fri 19/07/24	Tue 30/07/24																	
800	LT Cabling Works	105 days	Fri 22/12/23	Mon 22/04/24																	
801	Laying of Control Cable & Power Cable	45 days	Fri 22/12/23	Mon 12/02/24																	
802	Termination of Control cable and Power cable	45 days	Fri 01/03/24	Mon 22/04/24																	
803	CRP	28 days	Tue 24/10/23	Fri 24/11/23																	
804	Line feeder	7 days	Tue 24/10/23	Tue 31/10/23																	
805	Transformer feeder	7 days	Wed 01/11/23	Wed 08/11/23																	
806	Bus bar	7 days	Thu 09/11/23	Thu 16/11/23																	
807	Lan work	7 days	Fri 17/11/23	Fri 24/11/23																	
808	Communication	22 days	Wed 24/04/24	Sat 18/05/24																	
809	PLCC	7 days	Wed 24/04/24	Wed 01/05/24																	
810	Automation	15 days	Thu 02/05/24	Sat 18/05/24																	
811	Earthing Mat	90 days	Tue 11/07/23	Mon 23/10/23																	
812	Earthingmat Laying (Outdoor Switchyard)	90 days	Tue 11/07/23	Mon 23/10/23																	
813	Others Earthing Activities	90 days	Tue 16/04/24	Mon 29/07/24																	
814	Equipment & Building Earthing	60 days	Tue 16/04/24	Mon 24/06/24																	
815	Earth pit	30 days	Tue 25/06/24	Mon 29/07/24																	
816	DSLPL	10 days	Sat 06/04/24	Wed 17/04/24																	
817	Earth wire & clamps	10 days	Sat 06/04/24	Wed 17/04/24																	
818	Battery & Battery Charger	40 days	Mon 01/04/24	Thu 16/05/24																	
819	220 V Battery	20 days	Mon 01/04/24	Tue 23/04/24																	
820	Battery Charger	20 days	Wed 24/04/24	Thu 16/05/24																	
821	Main ACDB, Sub ACDB, DCDB, MLDB, ELDB, HVAC DB, MCB DB,	70 days	Mon 26/02/24	Thu 16/05/24																	
822	Main ACDB	10 days	Mon 26/02/24	Thu 07/03/24																	
823	Sub ACDB	10 days	Fri 08/03/24	Tue 19/03/24																	
824	DCDB	10 days	Wed 20/03/24	Sat 30/03/24																	
825	MLDB	10 days	Mon 01/04/24	Thu 11/04/24																	
826	ELDB	10 days	Fri 12/04/24	Tue 23/04/24																	
827	HVAC DB	10 days	Wed 24/04/24	Sat 04/05/24																	
828	MCB DB	10 days	Mon 06/05/24	Thu 16/05/24																	
829	DG Set	10 days	Tue 21/05/24	Fri 31/05/24																	
830	100 KVA DG Set	10 days	Tue 21/05/24	Fri 31/05/24																	
831	Fire Fighting	75 days	Wed 28/08/24	Fri 22/11/24																	
832	Fire Hydrant System	75 days	Wed 28/08/24	Fri 22/11/24																	
833	Ventilation	45 days	Tue 28/11/23	Thu 18/01/24																	
834	Ventilation system at GIS Hall	45 days	Tue 28/11/23	Thu 18/01/24																	
835	Air Conditioning	21 days	Sat 27/01/24	Tue 20/02/24																	
836	Control Room	7 days	Sat 27/01/24	Sat 03/02/24																	
837	Communication Room	7 days	Mon 05/02/24	Mon 12/02/24																	

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

Construction of 220/132kV, 2X160 MVA GIS at Shankardevnagar and Agomoni and associated Transmission Lines (Package E)- Shankardevnagar Location																					
ID	Task Name	Duration	Start	Finish	2021		2022		2023		2024										
					Half 2, 2021	Half 1, 2022	Half 2, 2022	Half 1, 2023	Half 2, 2023	Half 1, 2024	Half 2, 2024	Half 1, 2025									
					J	S	N	J	M	M	J	S	N	J	M	M	J	S	N	J	M
838	Conference room	7 days	Tue 13/02/24	Tue 20/02/24																	
839	<b>CCTV</b>	<b>14 days</b>	<b>Wed 21/02/24</b>	<b>Thu 07/03/24</b>																	
840	Switch yard	5 days	Wed 21/02/24	Mon 26/02/24																	
841	GIS Hall	3 days	Tue 27/02/24	Thu 29/02/24																	
842	Control Room	3 days	Fri 01/03/24	Mon 04/03/24																	
843	Others area	3 days	Tue 05/03/24	Thu 07/03/24																	
844	<b>Illumination</b>	<b>177 days</b>	<b>Wed 18/10/23</b>	<b>Fri 10/05/24</b>																	
845	Switchyard Illumination	30 days	Sat 06/04/24	Fri 10/05/24																	
846	GIS Hall Illumination	20 days	Wed 18/10/23	Thu 09/11/23																	
847	<b>Testing Commissioning</b>	<b>124 days</b>	<b>Tue 24/09/24</b>	<b>Fri 14/02/25</b>																	
848	Testing & Pre commissioning- Shankardevnagar	75 days	Tue 24/09/24	Thu 19/12/24																	
849	Commissioning- Shankardevnagar substation	49 days	Fri 20/12/24	Fri 14/02/25																	
850	Commissioning of transmission line	60 days	Mon 28/10/24	Sat 04/01/25																	
851	testing & commissioning at 400kV MISA Substatio	10 days	Wed 25/12/24	Sat 04/01/25																	



## 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  
1168

Dated Guwahati, 15/11/2011

**"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..

NA

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

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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.

Contd/3....

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

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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 measured: -
  - 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



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



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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-

- a) Dust containment cum suppress system for the equipment.
- b) Construction of wind breaking wall
- c) Construction of metallised road inside the factory premises.
- d) Regular cleaning and wetting of ground within the premises.
- e) 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<sub>2.5</sub> & PM<sub>10</sub>
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, 1996] (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,

Dated Guwahati, the 27<sup>th</sup>, Dec, 2021

Copy to:

1. M/s Rhino Industries, Changmaji Pather, Modortuli, Dist. Hojai (Assam) for information & necessary action.
2. The Commissioner of Industries & Commerce, Assam, Udyog Bhawan, Bamunimaidam, Guwahati-781021 for kind information.
3. The General Manager, DI&CC, Hojai District for information.
4. 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

Appendix-A



**Pollution Control Board, Assam**  
**Bamunimaidam, Guwahati-21**



**NOTIFICATION**

No. PCBA/LGL-95/2021/Notification/01      Dated Guwahati, the 11<sup>th</sup> 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  
 Copy to:

Dated Guwahati, the 11<sup>th</sup> Nov, 2021

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 Barua" on 12.11.2021.
5. Notice Board, Head Office / Website [www.pcbassam.org](http://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 18<sup>th</sup> November, 2009

No B-28016/20/90/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 11<sup>th</sup> April, 1994 and S.O. 955(E), dated 14<sup>th</sup> 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 <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	50	20	<ul style="list-style-type: none"> <li>Improved West and Gaeke</li> <li>Ultraviolet fluorescence</li> </ul>
		24 hours**	80	80	
2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual*	40	30	<ul style="list-style-type: none"> <li>Modified Jacob &amp; Hochheiser (Na Arsenite)</li> <li>Chemiluminescence</li> </ul>
		24 hours**	80	80	
3	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> µg/m <sup>3</sup>	Annual*	50	60	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	100	100	
4	Particulate Matter (size less than 2.5 microns) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual*	40	40	<ul style="list-style-type: none"> <li>Gravimetric</li> <li>TOEM</li> <li>Beta attenuation</li> </ul>
		24 hours**	60	60	
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours**	100	100	<ul style="list-style-type: none"> <li>UV photometric</li> <li>Chemiluminescence</li> <li>Chemical method</li> </ul>
		1 hour**	180	180	
6	Lead (Pb) µg/m <sup>3</sup>	Annual*	0.5	0.5	<ul style="list-style-type: none"> <li>ASS / ICP method after sampling on EPM 2000 or equivalent filter paper</li> <li>ED- XRF using Teflon filter</li> </ul>
		24 hours**	1.0	1.0	
(1)	(2)	(3)	(4)	(5)	(6)
7	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours**	2	2	Non Dispersive Infra RED (NDIR) Spectroscopy
		1 hour**	4	4	
8	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual*	100	100	<ul style="list-style-type: none"> <li>Chemiluminescence</li> <li>Indophenol blue method</li> </ul>
		24 hours**	400	400	
9	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual*	5	5	<ul style="list-style-type: none"> <li>Gas chromatography based continuous analyser</li> <li>Adsorption and desorption followed by GC analysis</li> </ul>
10	Benzo (a) Pyrene (BaP) - particulate phase only ng/m <sup>3</sup>	Annual*	1	1	Solvent extraction followed by HPLC GC analysis
11	Arsenic (As) ng/m <sup>3</sup>	Annual*	6	6	AAS / ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni) ng/m <sup>3</sup>	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, whichever 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 end, 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)**

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**(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).

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- 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 end, 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.

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Area Code	Category of Area	Limit in dB (A) Leq.	
		Day time	Night time
A	Industrial area	75	70
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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 <sub>2</sub> 80* $\mu\text{g}/\text{m}^3$	120* $\mu\text{g}/\text{m}^3$	30* $\mu\text{g}/\text{m}^3$
NO <sub>x</sub> 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.

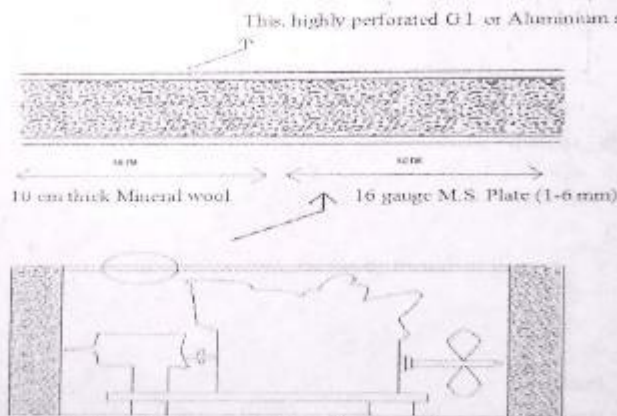


Fig. 4 Schematic Diagram of the DG set in an Acoustic Enclosure

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  
BAMUNIMAIDAM, 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-IM, 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:

Longitude (East)	Latitude (North)
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 B<sub>3</sub> 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  
Bamunimaidam, Ghy-21

Page 1 of 4

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

## 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- 1 (B)/2022/2143-50 Dated: 16/03/2022

To, Sri Imamul Haque,  
S/o- Saifiqul Haque,  
VIII.- Padumoniagon,  
P.O.- Kakatigason, P.S.- Kamptir,  
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- 1 (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- 1 (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 m<sup>3</sup> of Sand for a period of 2 (Two) years from "Chaparmukh- Kopili Nodi Sand Permit Area Part- 1 (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 1 M along with EIA Clearance from the competent authority within 45 (Forty Five) days for signing of Permit Agreement in FORM- MPS- 1, 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

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

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

E-mail: [dfo-kamrup-west@gov.in](mailto:dfo-kamrup-west@gov.in)

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Letter No. B/TIM/AEGCL/ 3093 Dated: 17-6-22

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. Jambari & submission of base marking report thereof.


Ref: (1) This office letter No. B/TIM/AEGCL/2713 dtd. 26.05.2022  
(2) Deputy General Manager, Mirza T & T Circle, AEGCL, Mirza letter No. AEGCL/DGM/MIRZA/T&P/Tech-8/2022/116 dtd. 15.06.2022

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. Jambari and informed this end that the felling can be executed by the field officers of AEGCL 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.

Furthermore all the logs should be brought to the Range Headquarter for e-auction of the same.  
This matter may be treated as most urgent.

(Smt. Dimpri Bora, IFS)  
Divisional Forest Officer,  
Kamrup West Division,  
Bamunigaon.

Copy to the Deputy General Manager, Mirza T & T Circle, AEGCL, Mirza for information and necessary action.

  
Divisional Forest Officer,  
Kamrup West Division,  
Bamunigaon.

## 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** : 14/05/2022  
**Time** : 11:28:40 AM  
**Validity upto** : 13/11/2022

Certificate SL. No. : AS03100120000360  
Registration No. : NL07H8737  
Date of Registration : 13/Jan/2015  
Month & Year of Manufacturing : July-2014  
Valid Mobile Number : \*\*\*\*\*2212  
Emission Norms : BHARAT STAGE III  
Fuel : DIESEL  
PUC Code : AS0310012  
GSTIN :  
Fees : Rs.110.00(GST 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	0.53

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

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by visiting to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator  
60mm x 20 mm

