6[™] SEMI-ANNUAL ENVIRONMENT & SOCIAL SAFEGUARD MONITORING REPORT

(Reporting Period: January - June, 2021)

North Eastern Region Power System Improvement Project (NERPSIP) (The World Bank Project ID - P127974 & Loan No. 8631-IN)

Prepared & Submitted by



Power Grid Corporation of India Ltd.

(Environment and Social Management Department)

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20 Sept., 2021

NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2021

		ABBREVIATIONS
ADC	_	Autonomous District Council
APDCL	_	Assam Power Distribution Company Limited
AFDCL	-	
	-	Assam Electricity Grid Corporation Ltd.
APs	-	Affected Persons
CBIS	-	Capacity Building & Institutional Strengthening
CEA	-	Central Electricity Authority
CPTD	-	Compensation Plan for Temporary Damages
CPIU	-	Central Project Implementation Unit
CF	-	Conservator of Forest
DC	—	District Collector
DM	-	District Magistrate
DFO	-	Divisional Forest Officer
DPN	—	Department of Power Nagaland
E&S	—	Environmental and Social
EHV	-	Extra High Voltage
EIA	-	Environment Impact Assessment
ESMD	_	Environment & Social Management Department
ESPPF	—	Environment and Social Policy & Procedures Framework
EMP	-	Environmental Management Plan
FCA,1980	-	Forest (Conservation) Act, 1980
FEAR	_	Final Environment Assessment Report
GOI	_	Government of India
GRM	_	Grievances Redressal Mechanism
GRC	_	Grievance Redressal Committee
IA	-	Implementing Agency
IEAR	_	Initial Environmental Assessment Report
LA	_	Loan Agreement
СКТ	_	Circuit Kilometers
MoEFCC	_	Ministry of Environment, Forest and Climate Change
MSPCL	_	Manipur State Power Company Limited
RMoEFCC	_	Regional Office of Ministry of Environment Forest & Climate
		Change
NOA	_	Notification of Award
NBWL	_	National Board for Wildlife
NO	_	Nodal Officer
NER	_	North Eastern Region
NERPSIP	_	North Eastern Region Power System Improvement Project
OPs	_	Operational Policies
PA		Project Agreement
PIU	<u> </u>	Project Agreement Project Implementation Unit
POWERGRID	-	
	_	Power Grid Corporation of India Ltd.
PPEs	-	Personal Protective Equipments

PMU	-	Project Management Unit
RCE	-	Revised Cost Estimate
RoW	-	Right of Way
R& R	-	Rehabilitation and Resettlement
RRM	-	Random Rubble Masonry
SS	-	Substation
SPCU	-	State Project Coordination Unit
TPDP	-	Tribal People Development Plan
T&D	-	Transmission & Distribution (T&D)
TSECL	-	Tripura State Electricity Corporation Limited
USD	-	United States Dollar
WB	-	The World Bank

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Executive Summary

The North Eastern Region (NER) in India is endowed with rich energy resources but faces significant bottlenecks in its access and availability. To create/augment proper infrastructure/network of Transmission & Distribution (T&D) in the region, Government of India (Gol) with the financial assistance of the World Bank (WB) has planned a composite scheme viz. "North Eastern Region Power System Improvement Project" (NERPSIP). The scheme covers six North Eastern States including Meghalaya to create a robust power network by improving the intra-state transmission & distribution (33kV and above) network with required capacity building initiatives for effective utilization of assets. The Gol appointed Power Grid Corporation of India Limited (POWERGRID), the Central Transmission Utility of the country as the "Implementing Agency" (IA) to implement the project under Tranche-1 in close coordination with the respective State Governments/State Utilities, who will be responsible for operation and maintenance of assets once they are handed over to them upon progressive commissioning.

In order to ensure environmental and social sustainability of the project, POWERGRID assisted State Utilities in preparation and adoption of state specific Environmental and Social Policy & Procedures Framework (ESPPF) based on the key principles of Avoidance, Minimization & Mitigation. In line with the provisions of ESPPF as well as frameworks agreed with Bank, various E & S safeguard documents such as Initial Environment Assessment Reports (IEARs), Compensation Plan for Temporary Damages (CPTDs) and Final Environment Assessment Reports (FEARs) etc. are prepared/being prepared and publicly disclosed. The present Semi-Annual Safeguard Monitoring report enlisting details of compliance of various E & S safeguard measures for period January-June, 2021 is being submitted to Bank as part project agreement agreed with the Bank.

The Project components include construction of about 1401 km of new 220 kV/132 kV EHV lines & 34 nos. of associated 220 kV/132/66/33 kV substation, 2051 km of 33 kV distribution lines & 85 nos. associated 33/11 substations along with various augmentation/extension of existing substations and reconductoring of line works spread across all six States i.e. Assam, Meghalaya, Manipur, Tripura, Mizoram & Nagaland. The total project cost is Rs. 5111 Crore with financing from both Gol and Bank on 50:50 basis. The Bank is providing financial support to the tune of Rs \$ 470 million (Rs 2511.165 crores) under the Loan No.-8631-IN which was signed on 28th November, 2016 and became effective from 20th February, 2017. The loan closing date is 31st March, 2023.

POWERGRID has been implementing the above project conforming to all applicable environmental and social legislations of the country as well as various conditions agreed with Bank under project & loan agreements. NER being a biodiversity rich area with very high tree density cover, routing of line and locating substation without involvement of forest and other ecologically sensitive areas posed a great challenge. However, in spite of best efforts, a total of 426.688 ha. (approx. 153.06 km) of forest in Tripura, Meghalaya, Mizoram and Manipur and 0.55 ha. Trishna Wildlife Sanctuary area in Tripura couldn't be avoided. As per regulatory requirement, necessary clearances/permissions for diversion of forest and wildlife area being obtained from Ministry of Environment, Forest & Climate Change (MoEFCC) under Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 respectively. As regard land for substations, all lands are secured either through purchase on willingseller willing- buyer basis or already in possession of State Utilities. Since no involuntary acquisition is involved, social issues such as physical displacement, R & R etc. not envisaged in the instant project. For establishment of all substations, land measuring 136.249 acre was secured through direct purchase on negotiated rate, 0.73 acre of land was willingly donated by owner and remaining were in possession with state utilities. However, for transmission line no land is acquired as per law of land but damages are compensated as per provisions of Electricity Act, 2003 and Indian Telegraph Act, 1885. POWERGRID is taking all possible efforts to avoid damage to standing crops and trees during construction of transmission lines, but in case of any damages, compensation is being paid to affected land owners/farmers for damage to standing crops/tree after due assessment of revenue authority/competent authority. Accordingly, Rs. 51.998 million were paid to 1473 affected farmers/land owners till reporting period. Similarly, a total amount of Rs. 163.742 million has already been paid to 1836 affected persons/land owners towards diminution of land value in line with prevailing practices/ MoP guidelines adopted by different States.

The Project doesn't envisage significant impacts on environmental attributes like air, water, soil etc. As anticipated, some impact like loss of vegetation due to clearing of the Right-of-Way (RoW) for lines and temporary impacts due to small scale construction activities in substation during construction period can never been avoided completely. The project specific mitigation measures enlisted in EMP, which is also part of contract documents are being applied appropriately in different stages of project and regularly monitored for its proper implementation. In addition to implementation of EMP provisions, some site- specific measures related to slope protection/stabilization (viz. retaining wall, toe wall, revetment wall, stone pitching, guard wall, bio-engineering measures etc), drainage (such as cross drainage, culverts), approach road, rain water harvesting and other protection measures etc. are undertaken/have been planned as per the site requirement/ conditions and subsequent technical approval through committee.

As regard Safety, all required measures are in place including due precautions/ awareness programs as well as ensuring use of PPEs and regular monitoring which is evident from the fact that no accidents (fatal or non-fatal) including major/minor injuries were reported during the reporting period from any of the construction sites. Besides, due to ongoing COVID-19 pandemic, all guidelines/protocols of Govt. of India and State Govt in respect of COVID-19 are being mandatorily followed. All necessary measures like proper sanitization, use of PPEs, social distancing norms etc. are followed religiously at each active sites and office establishments.

The two-tier grievance redress mechanism has been addressing/resolving the concerns and grievances of the complainant effectively. All concerns/grievances of affected persons/public including minor ones are also recorded and regularly tracked for early resolution within stipulated timeframe. It has been observed that most of these complaints are minor in nature which were also resolved instantly and there have been no court case or major complaints registered till date. As of June, 2021, only of 10 cases out of total 30 complaints remain open/are being negotiated.

Public consultation & information dissemination is an indispensable part of project cycle. As stated in ESPPFs, public consultation using different techniques like Public Meeting, Small Group Meeting, Informal Meeting are being carried out during different activities starting from planning to implementation stage. In case of Autonomous District Council (ADC) area, consultations are also being held with the respective village councils for identification of the landowner and obtaining their consent for the RoW. Besides, gender issues have also been

addressed to the extent possible during such consultation process. Till reporting period, a total of 4101 persons participated in safeguard consultation process including 923 female participants, which is approx. 22.51% of total participants.

POWERGRID approach of project implementation in close co-ordination with respective State Utilities involving selection of optimum route before design stage, proper implementation of EMP and monitoring mechanism throughout project life cycle supported by strong institutional arrangement has considerably nullified the adverse impacts arising out of project activities. Besides, direct or indirect benefits of the Projects like the employment opportunity, improved & uninterrupted power supply, improvement in infrastructure facilities, improved business opportunity outweigh the negligible impacts of the project.

SECTION-1: INTRODUCTION

1.1 Introduction

The North Eastern Region (NER) in India is endowed with rich energy resources but faces significant bottlenecks in its access and availability. The per capita power consumption of NER is one third of the national average. To create/augment proper infrastructure/network of Transmission & Distribution (T&D) in the region, Government of India (GoI) with the financial assistance of the World Bank (WB) has planned a composite scheme viz. "North Eastern Region Power System Improvement Project" (NERPSIP). The scheme covers six North Eastern States (Assam, Meghalaya, Manipur, Tripura, Nagaland & Mizoram) to create a robust power network by improving the intra-state transmission & distribution (33kV and above) network with required capacity building initiatives for effective utilization of assets. The Gol appointed Power Grid Corporation of India Limited (POWERGRID), the Central Transmission Utility of the country as the "Implementing Agency" (IA) to implement the project under Tranche-1 in close coordination with the respective State Governments/Utilities. However, the ownership of the assets shall be with the respective State Governments/ State Utilities, who will be responsible for operation and maintenance of assets once they are handed over to them upon progressive commissioning. POWERGRID is also facilitating in building the institutional capacity of the state departments and utilities to continue managing the rehabilitated networks in an efficient manner.

The total project cost is Rs. 5111 Crore with financing from both Gol and Bank on 50:50 basis. The Bank is providing financial support to the tune of Rs \$ 470 million (Rs 2511.165 crores) under the Loan No.-8631-IN which was signed on 28th November, 2016 and became effective from 20th February, 2017. The loan closing date is 31st March, 2023. The remaining financing including capacity building will be met through Govt. of India funding. Details of State wise funding is placed below;

	World Bank	Govern	ment of India	
State	Project Cost (Rs in Cr.)	Project Cost (Rs in Cr.)	Capacity Building (Rs in Cr.)	Total
Assam	729.485	729.485	14.83	1473.803
Manipur	213.690	213.690	14.83	442.213
Meghalaya	381.050	381.050	14.83	776.933
Mizoram	150.965	150.965	14.83	316.763
Nagaland	357.290	357.290	14.83	729.413
Tripura	678.685	678.685	14.83	1372.203
Sub Total	2511.165	2511.165	89	5111.33
Total	2511.165	2600.165		

In order to ensure Environmental and Social (E&S) sustainability of the project, POWERGRID assisted all State Utilities in preparation and adoption of state specific **Environmental and Social Policy & Procedures Framework (ESPPF)** based on the key principles of **Avoidance, Minimization & Mitigation**, that will serve as management framework for identification, assessment and management of environmental and social **NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2021** 9 concerns at both organizational as well as project levels. In line with the ESPPF and Loan agreement with Bank, various E & S safeguard documents such as **Initial Environment Assessment Reports (IEARs), Compensation Plan for Temporary Damages (CPTDs) and Final Environment Assessment Reports (FEARs) etc.** are prepared/being prepared and publicly disclosed. The present Semi-Annual Safeguard Monitoring report covering the detail status of compliance of various E & S safeguard indicators for period January-June, 2021 is being submitted to Bank as per agreed framework.

1.2 Project Description

The state wise scope of works proposed under Tranche-1 transmission scheme is given below:

Transmission/ Sub-transmission (132kV & above)					istribution	(33kV)
	Line (Km)	New S/s (No.)	Total MVA (New & Aug.)	Line (Km)	New S/s (No.)	Total MVA (New & Aug.)
Assam	233	11	1644	479	16	240
Manipur	254	2	160	131	13	229.4
Meghalaya	225	4	940	263	11	135
Mizoram	143	3	125	5	1	6.3
Nagaland	285	5	245	76.5	10	190
Tripura	261	9	1306.5	1096	34	450.5
Total	1401	34	4420.5	2051	85	1251.2

1.3 Progress and Implementation Schedule

The details of package wise award status and physical progress of project implementation till December'20 as well as completion schedule is provided below:

SI. No	Package No. ¹	Lines/Substations Scope covered under Pkg.	Date of Award	Schedule Compl.	Anticipated/ Revised	Progress
				as per NOA	Date of Completion	(in%) as on 30 Jun.'21
		AS	SAM			
1	TW 02	1 no. 220 kV Line (50 km)	10 Ocť 17	Apr'20	Ocť21	70%
2	TW 04	1 no. 132 kV line (36 km)	8 Sept'17	Mar'20	Sepť21	70%
3	TW 05	1 no. 132 kV line (55 km)	1 Sept'17	Mar'20	Aug'21	95%
4	TW 07B	6 nos. 220/132kV line (70 km)	15 Jan'21	Dec'21	Jan,22	20%
5	P 01	Pile foundations	18 Sepť17	Mar'20	Dec'21	100%
6	SS 01	2 nos. new 132/33 kV, 2 nos. Ext. & 1 no. Aug of 132/33 kV substation	12 Aug'16	Aug'19	Nov'21	75%
7	SS 02	1 no. new 220/132 kV & 3 nos. of new 132/33 kV and 2 nos. Ext. of substation.	12 Aug'16	Aug'19	Aug'21	70%

¹ Other three packages i.e. OPGW live line stringing (OPGW 01), Transformer (TR1) and Tele Equipment have also been awarded but not included in the above list as these are not directly relevant.

0	00.00	2 mag many 122/22 kV/ 2	10 4	A	A	700/
8	SS 03	2 nos. new 132/33 kV, 2	U U	Aug'19	Aug'21	72%
		nos. Ext. & 1 no. Aug of				
0	00.04	132/33 kV substation.	C May 24C	Marila	0-1/04	750/
9	SS 04	3 nos. new substations	6 May'16	May'19	Ocť21	75%
		(1no. 220/132/33kV & 2				
		nos132/33kV) and 1 no.				
		Extn. of 132/33 kV				
		substation & 3 nos. 220/132				
		kV UG cable (10 km)				
10	DMS 01	4 nos. new 33/11kV	20 Oct'16	Jun'19	Dec'21	72%
		substation & 7 nos. 33 kV				
		lines (119 km).				
11	DMS 02	3 nos. new & 2 nos. Ext.	23 Dec'16	Sept.'19	Aug.'21	75%
		33/11kV substation & 11				
		nos. 33 kV lines (146 km)				
12	DMS 03	5 nos. new & 9 nos. Ext.	23 Dec'16	Sept.'19	Aug'21	75%
		33/11kV substation & 9 nos.				
		33 kV lines (134 km)				
13	DMS 04	4 nos. new & 2 nos ext.	8 July'16	Mar'19	Sept'21	65%
		33/11kV substation & 11				
		nos. 33 kV Underground				
		cable lines (80 km)				
		MAN	IIPUR			
14	TW 06	4 nos. 132 kV line (85 km) &				
		renovation of 1 no. existing				
		132 kV line (91 km) and	31 May'18	Nov'20	Dec'21	60%
		stringing of 2 nd circuit in exi.	_			
		132kV line (78 km)				
15	SS 01	1 no. new 132/33kV & 2 nos.	3 Jan'18	July'20	Sept'21	45%
		Ext./Aug. of substations.		•		
16	SS 02	3 nos. Ext. & 1 no. Aug. of	8 Dec'17	Jun'20	Aug'21	80%
		132/33 kV substation.			C C	
17	SS03	1 no. new 132/33 kV & 1 no.	3 Jan'18	July'20	Dec'21	45%
		Ext & 1 no. Aug. of 132/33		2		
		kV substation.				
18	DMS 01	7 nos. new 33/11kV	3 Mar'17	Dec'19	Sept'21	75%
		substation & 7 nos. 33 kV				
		lines (68 km)				
19	DMS 02	2 nos. new 33/11kV	16 Dec'16	Sep'19	Commiss	100%
		substation & 2 nos. 33 kV		•	ioned	
		lines (20 km)				
20	DMS 03	2 nos. new 33/11kV	18 Mar'16	Dec'18	Commiss	100%
_		substation & 2 nos. 33 kV		-	ioned	
		lines (23 km)				
21	DMS 04	2 nos. new 33/11kV	18 Mar'16	Dec'18	Commiss	100%
		substation & 2 nos. 33 kV			ioned	
		lines (20 km)				
			IALAYA			
22	TW 01	1 no. 220kV line (122 km)	29 Jun'16	Jun'19	Ocť21	65%
23	TW 02	2 nos. 132kV line (103 km)	29 Jun'16	Jun'19	July'21	95%
24	SS 01	2 nos. new & 1 no. Ext. of		Aug'19	Nov'21	68%
	•	132/33 kV substation.			···· _·	
			1		1	

	.					0 – 0 / 1
25	SS 02	2 nos. new 1 no. Ext. of 220/132 kV substation		Apr'19	Aug'21	85%
26	DMS 01	4 nos. new 33/11kV substation & 4 nos. 33 kV lines (56 km)	13 July'16	Apr'19	Aug'21	80%
27	DMS 02	3 nos. new 33/11kV substation & 4 nos. 33 kV lines (28 km)	27 May'16	Feb'19	Aug'21	75%
28	DMS 03	4 nos. new 33/11kV substation & 6 nos. 33 kV lines (82 km)	27 May'16	Feb'19	Aug'21	82%
		TRI	PURA			
29	TW 01	4 nos.132 kV lines (87 km)	12 June'17	Feb'20	Dec'21	40%
30	TW 02	5 nos.132 kV lines (112 km)	12 June'17	Feb'20	Dec'21	35%
31	TW 03	5 nos.132 kV lines (62 km)	12 June'17	Feb'20	Dec'21	45%
32	SS 01	4 nos. new 132/33 kV substation.	4 Nov'16	Nov'19	Dec'21	65%
33	SS 02	2 nos. new & 1 nos. Ext. and 2 nos. Aug. of 132/33 kV substation.		Nov'19	Dec'21	72%
34	SS 03	3 nos. new & 1 no. Ext. & 3 nos. Aug. of 132/33 kV substation.	4 Nov'16	Nov'19	Dec'21	65%
35	DMS 01	7 nos. new 33/11kV substation & 11 nos. 33 kV lines (181 km)	20 Feb'17	Nov'19	Dec'21	45%
36	DMS 02	6 nos. new 33/11kV substation & 13 nos. 33 kV lines (226 km)	20 Jan'17	Ocť19	Dec'21	45%
37	DMS 03	5 nos. new 33/11kV substation & 19 nos. 33 kV lines (244 km)	20 Feb'17	Nov'19	Feb'22	40%
38	DMS 04	10 nos. new 33/11kV substation & 20 nos. 33 kV lines (247 km)	20 Jan'17	Ocť19	Dec'21	45%
39	DMS 05	6 nos. new 33/11kV substation & 11 nos. 33 kV lines (193 km)	20 Feb'17	Nov'19	Dec'21	45%
		MIZO	ORAM			
40	TW 01	3 nos.132kV lines (84 km)	20 Sepť17	Mar'20	Dec'21	30%
41	SS 01	1 no. new & 1 no. Ext. of 132/33 kV substation.		May'20	Dec'21	35%
42	SS 02	3 nos. new 132/33kV & 1 no. new 33/11 of substation. 1 no. 132kV line (59 km) & 1 no 33kV line (5 km)	13 Oct'17	Apr'20	Dec'21	35%
			ALAND			
43	TW 01	1 no. 220kV line (92 km)	20 Sept'17	Mar'20	Nov'21	50%
44	TW 05	1 no. 132kV line (28 km)	21 Sept'17	Mar'20	Aug'21	62%
45	TW 06	8 nos. 132kV lines (165 km)	31 May'18	Nov'20	Dec'21	55%
46	SS 01	2 nos. new 132/33 kV substation.	5 Dec'17	Jun'20	Dec'21	48%

47	SS 02	1 no. new 132/33 kV & 3 nos. ext. of substation.	30 Nov'17	May'20	Dec'21	48%
48	SS 03	1 no. new 132/33 kV & 1 no. ext. (220/132 kV) of substation	14 Dec'17	Jun'20	Nov'21	55%
49	SS 04	1 no. new & 1 no. ext. of 132/33 kV substation	13 Dec-17	Jun'20	Nov'21	55%
50	DMS 01	2 nos. new 33/11kV substation & 3 nos. 33 kV lines (7.5 km)	12 Feb'18	Nov'20	Nov'21	65%
51	DMS 02	3 nos. new 33/11kV substation & 5 nos. 33 kV lines (54 km)	11 Jan'18	Ocť20	Dec'21	65%
52	DMS 03	3 nos. new 33/11kV substation & 2 nos. 33 kV lines (4.25 km)	22 Sep'16	Jun'19	Sept'21	89%
53	DMS 04	2 nos. new 33/11kV substation & 1 no. 33 kV lines (10 km)	22 Sep'16	Jun'19	Sepť21	89%

SECTION-2: COMPLIANCE TO E & S COVENANTS OF LOAN AGREEMENTS

The various safeguard covenants specified in the agreed Loan Agreement and Project Agreement under the subject loan have been complied and detail of compliance status against such covenants is presented in below;

Description of Covenants	Reference	Status of Compliance
Loan Agreement (LA)		
 The Borrower shall make its best efforts to ensure that the Participating States: (a) carry out their responsibilities under the SS-ESPPFs, IEARs, RAPs, EMPs, CPTDs and/or TPDPs (the "Safeguards Documents") prepared, and/or to be prepared and publicly disclosed, as required, by the Project Implementing Entity and/or the Respective Power Utilities/ Departments, as the case may be, pursuant to paragraph 2 of Section I.E. of the Schedule to the Project Agreement, in each case in a manner and in substance satisfactory to the Bank; (b) ensure that the Respective Power Utility/Department complies with the applicable Safeguard Documents as well as any related obligations set forth in the respective Implementation/ Participation Agreement; and (c) refrain from taking any action which would prevent or interfere with the Project Implementing Entity's and/or the Respective Power Utility/Department's, implementation of the Safeguard Documents, including any amendment, suspension, waiver, annulment and/or voidance of any provision of such documents, whether in whole or in part, without the prior written agreement of the Bank. 	LA, Schedule-2, Section-I (D)	These covenants are complied with or being complied as part of Project Agreement & Separate Agreements with IA & State Utilities.
Project Agreement (PA)		
The Project Implementing Entity shall: (a) carry out the Project in accordance with the SS-ESPPFs, IEARs, EMPs, the RAPs, CPTDs and TPDPs prepared, and/or to be prepared in form and substance satisfactory the Bank, pursuant to paragraph 2 of this sub- section, in accordance with the objectives, policies, procedures, time schedules, compensation arrangements and other provisions set forth in the SS-ESPPFs	PA, (Schedule), Section- I, E, Para 1	Complied/Being Complied. RAPs and TPDPs not applicable. All other safeguard documents (IEARs, CPTDs) have been prepared/ disclosed. For details refer Table-1 .

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Table-

Description of Covenants	Reference	Status of Compliance
Implementing Entity and/or the Participating States in writing of its no objection thereto; (c) the foregoing Safeguard Documents have been publicly disclosed by the Project Implementing Entity and the Participating States (through it Respective Power Utility /Department), in local language(s) at the relevant Project's sites, at least thirty (30) days prior to the award of the contract for the related works.		Complied/Being Complied. All approved safeguard reports stand publicly disclosed on website of POWERGRID & State Utilities. Below is the link to access such reports; <u>https://www.powergridi</u> <u>ndia.com/ner-agreements-and-mous</u>
Prior to commencing any civil works for any transmission line, substation or distribution network under Component A of the Project, the Project Implementing Entity shall ensure that: (a) all necessary governmental permits and clearances for such civil works for such transmission line, substation or distribution network shall have been obtained from the competent governmental authority lies and submitted to the Bank; (b) all pre-construction conditions imposed by the governmental authority lies under such permit(s) or clearance(s) shall have been complied with/fulfilled; and (c) all resettlement measures for the respective transmission/distribution substation, set forth in the applicable RAP shall have been fully executed, including the full payment of compensation for the land prior to displacement and/or the provision of relocation assistance to all APs, as per the entitlements provided in the SS-ESPPF and/or the applicable	PA, (Schedule), Section- I, E, Para 3	Complied/ Being complied. Refer in Table- 2 for details of forest/ wildlife clearances along with their present status.
RAP. Prior to commencing any civil works under a transmission line, the respective CPTD plan including the compensation and payment schedule thereunder shall have been agreed with the Bank.	PA, (Schedule), Section- I, E, Para 4	Complied/Being complied. Out of 18 CPTDs, 17 CPTDs (excluding U/G pkg where CPTD is not applicable) have already been disclosed on website. For CPTD status please refer Table-1 .
The Project Implementing Entity shall ensure that each contract for civil works under the Project includes the obligation of the relevant contractor to comply with the relevant Safeguard Documents applicable to such civil works commissioned/awarded pursuant to said contract.	PA, (Schedule), Section- I, E, Para 5	Complied/Being complied

Description of Covenants	Reference	Status of Compliance
The Project Implementing Entity shall:		
(a) maintain monitoring and evaluation protocols	PA,	
and record keeping procedures agreed with	(Schedule),	Complied/ Being
the Bank and adequate to enable the Project	Section- I,	complied.
Implementing Entity and the Bank to	E, Para 6	•
supervise and assess, on an ongoing basis,	, -	
the implementation of/compliance with the		
Safeguards Documents, as well as the		
achievement of the objectives thereof;		Quarterly Progress
(b) furnish to the Bank, throughout the period of		Reports including
Project implementation quarterly reports,		updates on safeguards
assessing compliance with the Safeguard		indicators & forest
Documents, monitoring the efficacy of the		clearances being
social and environmental management		submitted to the Bank
measures, and evaluating the results of the		on a regular basis. The
mitigation or benefit enhancing measures		instant report is a
applied; and		comprehensive report
		exclusively on E & S
(c) unless otherwise agreed with the Bank, engage independent consultants with		3
		safeguard issues which has been
qualification and experience, and under		
terms of reference agreed with the Bank, in		prepared at every six
order to:		months and submitted
(i) carry out by no later than: (A) one		to Bank as per agreed
hundred twenty (120) days as of completion		framework.
of Stage-I clearances under the Forest		Deiner Oemerlied
(Conservation) Act, 1980 if the activities		Being Complied.
involve designated forest land; or (B) six (6)		la den en den t
months after the contractors' completion of		
the detailed survey for final placement/route		Agencies/ Consultants
alignment for any civil works, in the case of		for FEAR already
activities not involving designated forest land,		appointed for all 6
a final environmental assessment report		States. For details
("FEAR") setting forth the actual impact of		refer Table-1
Project activities, the results of stakeholders		
consultations, the clearances obtained and		
status of compliance with any conditions		
attached therewith, and the mitigation		
processes/measures taken or set in place to		
minimize or avoid any negative		
environmental impact of Project activities, all		
in accordance with the processes and		
requirements set forth in the respective SS-		
ESPPF(s) and IEAR(s); and		For details of FEAR
(ii) thereafter, within fifteen (15) days of		status refer Table-1 .
completion of each such FEAR: (A) submit		
such reports to the Bank for consideration		
and disclosure by the Bank, and (B)		
thereafter publicly disclose such reports in a		
similar fashion as the disclosure of the		
Safeguard Documents.		

Description of Covenants	Reference	Status of Compliance
The Project Implementing Entity shall make its best efforts to ensure that each participating State has established by no later than three (3) months after the Effective Date, and thereafter maintains and operates throughout the period Project of implementation, a grievance redress mechanism as incorporated in SSESPPF and agreed by the Bank for the handling of any stakeholder complaints arising out of the implementation of Project activities.	PA, (Schedule), Section- I, E, Para 7	Complied/ Being complied. HQ and Site Level GRC have been constituted by all State Utilities. However, representation from local administration & Panchayat /village council for Site Level GRC yet to be nominated by Tripura, Nagaland and partly for Assam & Meghalaya.
In the event of any conflict between any of the provisions of any of the SSESPPFs, IEAR(s), EMP(s), RAP(s), CPTD(s) and/or TPDP(s), on the one hand, and any of the provisions of this Agreement or the Loan Agreement, on the other hand, the provisions of this Agreement and the Loan Agreement shall prevail.	PA, (Schedule), Section-I, E, Para 8	No such event occurred till reporting period. Will be complied if such situation warrants.

Table – 1: Status of preparation & disclosure of E & S Safeguard Documents

State	SS-ESPPF	Status of Safeguard Documents (Date of Approval/Disclosure)				
	(Date of					
	Disclosure)		IEAR	CPTD	FEAR	
		District & Brief				
		Scope of works				
Assam	29 th June	Dhemaji			M/s Green Circle Inc.,	
	2015	1 no. 132kV & 2 nos.	2015	2018	Vadodara appointed as	
		33kV line,			Independent Consultant	
		1 no. each 132/33kV			for FEAR preparation in	
		& 33/11kV substation			Dec'18. Both the FEARs	
		Tinsukia &	8 th July	3 rd Oct.	have already been	
		Dibrugarh	2015	2018	disclosed after clearance	
		1 no. each 220kV &			by Bank on 5 May, 2021.	
		132 kV and 4 nos.				
		33 kV line,				
		2 nos. 132/33kV &				
		3 nos. 33/11 kV				
		substation				
		Kamrup	20 th	N.A.	Identification/	
		2 nos. 132kV & 11	July	(UG	appointment of	
		nos. 33 kV	2015	lines	Independent Agency	
		Underground line,		only)	under progress.	
		2 nos. 132/33 kV &		.,		
		5 nos. 33/11 kV				
		substation				
		Kamrup Rural,	14 th	18 th Jan		

					Y
		Udalguri &	July	2021	
		Sonitpur	2015		
		1 no. 220 kV, 5			
		nos.132 kV & 12			
		nos. 33 kV line,			
		1 no. 220/132kV, 3			
		nos. 132/33 kV & 5			
		nos.33/11 kV			
		substation			
		Golaghat, Nagaon,	27 th July	30 th Nov	
		Jorhat, Sibsagar &	2015	2020	
		Karbi-Anglong			
		2 nos.132kV & 8 nos.			
		33kV line,			
		2 nos. each			
		132/33kV &			
		33/11 kV			
		substation			
Manipur	17 th August	Imphal West,	15 th June	30 th Nov	M/s R S Envirolink
manipui	2015	Senapati &	2015	2020	Technologies Pvt. Ltd.
	2015	Bishnupur	2015	2020	appointed as consultant
		2 nos.132kV & 5			in June 20. All 3 FEARs
		nos. 33kV line,			have already been
		1 no.132/33kV & 5			disclosed after clearance
		nos. 33/11kV			by Bank on 2 July, 2021.
		substation			by Dalik Off 2 July, 2021.
			22rd July		
		Imphal East,	23rd July 2015		
		Churachandpur, Thoubal &	2015		
		Tamenglong Strg. of 2 nos.132			
		0			
		kV & reno. 1			
		no.132kV & 7			
		nos.33kV line, and			
		5 nos. 33/11 kV			
		substation	Oth Ion		
		Imphal West,	8th Jan.		
		Imphal East &	2015		
		Tamenglong			
		1 no. 132kV & 3 nos.			
		33kV line,			
		1 no. 132/33 kV, 3			
		nos. 33/11kV			
Maghal	20th Luna	substation	Eth Mar	and I	North Costory LU
Meghal	29 th June,	West Garo Hills &	5th May		North Eastern Hill
aya	2015	South West Garo	2015	2018	University (NEHU),
		Hills			Shillong was appointed
		1 no. 132kV & 6 nos.			as consultant in March
		33kV line,			18.
		1 no. 132/33kV & 3			
		nos. 33/11kV			FEAR already disclosed
		substation			on website in Dec, 19
					after clearance by Bank.

Ri-Bhoi and East Khasi Hills 7th July 2015 Draft FEAR report 1 no. 220KV & 5 nos. 33kV line, 1 no. 220KV & 5 nos. 33kV line, 1 no. 220KV & 5 nos. 33kV line, 1 no. 232KV & 4 nos. 33/11kV 7th July 2015 Draft FEAR report 8 4 nos. 33/11kV 2015 Draft FEAR report 9 1 no. 220KV & 5 nos. 33kV line, 1 no. 132/33kV & 4 19 th Oct. Identification/ 1 no. 132/X3 kV & 4 2015 2018 Identification/ 1 no. 132/X3 kV & 4 2015 2018 Identification/ 1 no. 132/X3 kV & 4 2015 2018 Identification/ 1 no. 132/X3 kV 2015 2018 Identification/ 1 no. 132/33 kV 2015 2018 Identification/ 1 no. 132/33 kV 2015 2018 Identification/ 1 no. 132/33 kV 2015 2018 Identifies and default notices Independent 1 no. 132/33 kV & 1 0 0 2018 Identifies and default notices Independent 1 no. 132/33 kV & 1 13 th 15 th Oct. 2018 Identifies and default notices Independent 1 no. 132/33 kV & 8 10 13 th 13 th 13 th 10 th Dect. Identifies and default notices 1 no. 132/33 kV	Г					
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South Tripura, Sepahijala & Khowai20152018submitted first draft reports for both Tripura/ Mizoram in Oct./Nov, 2020 (after repeated reminders and default notices from POWERGRID) but same were not considered for review due to in- adequate & poor-quality report. The Consultant substation)Dhalai, North Tripura & Unakoti (2 nos.132kV & 8 nos 33kV line, 1 no. 132/33kV & 6 nos. 33/11kV substation)13th 15th Oct. 201515th Oct. review due to in- adequate & poor-quality report. The Consultant submitted revised reports in July 2021 after collection of additional data/ information and visit to various sites in July 2015Gumti & South Tripura (19 nos. 33/11kV substation)27th July 201515th Oct. 2018Gumti & South 1 no. 132/33kV & 1 no. 132/33kV & 20152018 2018Gumti & South 1 no. 132/33kV & 1 no. 132/33kV & 20152018 2018Gumti & South 1 no. 132/33kV & 201520152018 2018Gumti & South 201520152018 2018Gumti & South 201920152018 2018Gumti & South 2			· · · · · · · · · · · · · · · · · · ·			
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Khowai (4 nos.132kV & 24 nos.33kV line, 3 nos. 132/33kV & 1! nos. 33/11kV substation)Mizoram in Oct./Nov, 2020 (after repeated reminders and default notices from POWERGRID) but same were not considered for review due to in- adequate & poor-quality report. The Consultant submitted revised reports in July 2021 after collection of additional data/ information and visit to various sites in Juny 2015Gumti & South Tripura (19 nos. 33/11kV substation)27th July 201515th Oct. 2018visit to various sites in Juny 2021 after collection of additional data/ information and visit to various sites in June 21. However, POWEGRID has provided its detailed observations on 8 July 21. Revised report				2015	2018	
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1 no. 132/33kV & 6 nos. 33/11kV substation)in July 2021 after collection of additional data/ information and visit to various sites in July 2018Gumti & South Tripura (19 nos. 33kV line, 1 no. 132/33kV & 1 no. 132/33kV & substation)27th July 201815th Oct. 2018I no. 132/33kV & substation)2015POWEGRID observations on 8 July 21.			`	2015		•
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14 nos. 33/11kV substation)observations on 8 July 21. Revised report			•	2015		
substation) 21. Revised report						•
						5
Mizoram 7 th July, Lunglei & 17 June 30 th Nov incorporating all	Mizoram	7 th July,	· · · · · ·	17 June	30 th Nov	
2015 Lawngtlai 2015 2020 observations submitted			-	2015	2020	
(2 nos. 132kV & 1 Aug 2021						
no. 33kV line, Aug 2021.						Aug Zuz I.
1 no. each 132/33kV &						
33/11kV						
substation)						

		Mamit		18 th Jan	
			26 July		
		1 no. 132kV & 33kV	2017	2021	
		line,			
		3 nos. 132/33kV			
		substation)			
Nagalan	10 th July,	Tuensang &	13 May	30 th Nov	M/s R S Envirolink
d	2015	Longleng	2015	2020	Technologies Pvt. Ltd.
		(1 no. 132kV & 33kV			appointed in Nov, 2019.
		line,			Both FEARs cleared by
		1 no. 132/33kV			Bank and also stand
		substation			disclosed on website
		Mokokchung,	27 th July		since 17 th Aug. 2020.
		Kohima, Dimapur,	2015		
		Phek, Wokha,			
		Zunheboto, Mon			
		6 nos.132kV & 10 nos			
		33kV line,			
		4 nos. 132/33kV & 9			
		nos. 33/11kV			
		substation			

SECTION-3: COMPLIANCE STATUS WITH ENVIRONMENT MANAGEMENT PLAN

3.1 Implementation of Environmental Management Plan

The instant project is being implemented as per approved Initial Environment Assessment Reports which have been prepared based on framework agreed under SS-ESPPFs and Bank Operational Policies (OP 4.01: Environmental Assessment). Accordingly, a total of 19 nos. of IEARs along with Environmental Management Plans (EMP) enlisting various mitigation measures were prepared and subsequently disclosed to ensure that all the identified/ possible environment impacts due to the instant project intervention are minimized to the extent possible. The EMP describes detailed site-specific mitigation measures including monitoring indicators with responsibility allocation in different stage of project cycle i.e. pre-construction, construction, and operation & maintenance phase. For ensuring proper and effective implementation of various measures of EMP even by associated contractors, EMP has also been made part of contract condition/document. Additionally, budget provisions of Rs. 203.73 Crores has been included in cost estimate apart from additional requirement of Rs.20 Crores proposed under Revised Cost Estimate (RCE) for site specific measures identified during course of project implementation. The total E & S management cost is approximately 4.45 % overall project cost.

Further, monitoring the implementation of environmental mitigation measures is required to ensure that these are undertaken in accordance with provisions of IEA/EMP and as per relevant contract conditions. A summary of E & S mitigation measures and monitoring requirements vis-à-vis compliance status is given in **Appendix-1**.

3.1.1. Status of required clearances, permits and approvals

It is an established fact that power transmission projects activities are non-polluting in nature and do not involve disposal of any pollutant in land, air, water or any large scale excavation resulting in soil erosion and its contribution towards environmental pollution is minimal. Due to this transmission projects were kept out of the purview of different pollution laws as well as exempted from the requirement of environmental clearance under Environment Impact Assessment (EIA) Notification of 1994 and 2006. However, the major environment regulations applicable to instant project is prior approval under Forest (Conservation) Act, 1980 from Ministry of Environment, Forests and Climate Change (MoEFCC) wherever the line is passing through notified forest area. Similarly, permission of National Board for Wildlife (NBWL) is a statutory requirement under Wildlife (Protection) Act, 1972 for all non-forest activities in protected areas (National Parks, Wildlife Sanctuary, Tiger Reserve etc.).

Accordingly, all necessary approval/permits in respect to above applicable environment laws and regulations are being complied. The status of forest and wildlife clearance for various subprojects till reporting period is presented below in **Table-2**.

	<u> </u>				
Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks	
	ASSAM				
TW02	220 kV D/c Tinsukia-Behiating	55	Nil		
TW04	132 kV S/c Dhemaji-Silapathar	36	Nil		
TW05	132 kV S/c Rupai-Chapakhowa	53	Nil		

Table- 2: Details of Package Wise Forest/Wildlife Clearance Status

Dka		Line	Forest	
Pkg. No.			(In Ha.)/	Status/Remarks
NO.		(In km)	Туре	
-	220 kV D/C Rangia-Amingaon	33		
	132 kV D/c Amingaon-Hazo	16		
	LILO 132 kV S/c Rangia-Rowta	10		
	LILO132kVS/c Kamalpur-S'gram	1		
TW07	LILO132kVS/c K'pur-Khamakhya		Nil	
	LILO 132kV S/c Golaghat-	5		
	Bokajan at Sarupathar			
	132 kV D/c Sonabil-Tezpur	15		
	LILO 132 kV S/c Jorhat-Nazira	5		
	33 kV Silapathar - Silapathar-II	35		
	33 kV Silapathar - Silapathar	5		
	33 kV Samaguri - Hathimurah-2	30		
DMS01	33 kV Tezpur - LGM Hospital	7	Nil	
	33 kV Tezpur- Parowa	7		
	<u>33 kV Tezpur - Dolabari</u>	5		
	33 kV Shankardeo Nagar-Mailo	30		
	33 kV Behiating - Bogibil	10		
	33 kV Behiating - Dibrugarh	15		
	33 kV Dibrugarh - Romai	17		
	33 kV Chapakhowa – C'khowa	10		
	33 kV Sarupathar -Barapathar	12	Nil	
DMS02	33 kV Sarupathar - Sarupathar	5		
	33 kV Sarupathar - Sariajhan	20		
	33 kV Teok -Teok	5		
	33kV Teok - Kakojaan	15		
	33kV Teok - Zangi	15		
	33kV Teok - Pragati	22		
	33kV Tangla - Harsingha	12		
	33kV Tangla - Paneri	20		
	33kV Tangla - Kalaigaon	20		
	33kV Tangla -Khairabari	10	N.C.	
DMS03	5 5	10	Nil	
	33kV Hazo - Sesa	15		
	33kV Hazo - Ramdiya	12		
	33kV Hazo -Domdoma-hazo	10		
	33kV Hazo - Mukalmuwa	25		
	33kV(UG Cable) GMC-GS Road	14		
	33kV (UG) GMC -GMC-2	10		
	33kV (UG) GMC-Tarun Nagar	10		
	33kV (UG) GMC- Arya College	12		
DMS04	33kV (UG) GMC- GMC	5	NI:I	
	33kV (UG) GMC- Ullubari	10	Nil	
	33 kV (UG) P'bazar-Chabipool 33kV (UG) Paltanbazar-P'bazar	4 2		
	33kV (UG) Paltanbazar-J' field	5		
	33kV (UG)Paltanbazar-F'bazaar	4		
	33kV (UG) P'bazar – Ullubari	4		
		MANIF		
TW06	Renovation of 132kV Y'bam- Karong-Kohima	91	Nil	

Pkg.	Nome of the Line/Cubetation	Line	Forest	Status / Damarka		
No.	Name of the Line/Substation	Length (In km)	(In Ha.)/ Type	Status/Remarks		
	LILO132 kV S/c Y'bam -Karong	6	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	LILO 132kVD/c Kongba-Kakching	16				
	Stringing (2 nd Ckt.) of 132 kV D/c Yaingangpokpi – Kongba	45				
	Strg.132kV Kakching-Kongba	33				
	132 kV D/c Imphal – Nin'khong	34				
	132 kV S/c Rengpang- Tamenglong	29	56.833/ Un- classed Forest	Stage-I approval obtained on 30.01.20. Payment of Rs 7.5 Cr towards compensatory levies has been deposited. Working permission awaited.		
SS3	132/33 kV Tamenglong		1.831/ Un- classed Forest	Forest proposal submitted on 29.05.19. Proposal forwarded to NO on 03.04.21. NO has raised some query which have been clarified on 18.06.21.		
	33kV Andro-Yairipok	15				
	33kV M'sangei-Pishum(UG+OH)	10				
	33kV Mongsangei -Hiyangthang	4				
	33kV Iroisemba - Takyel	7				
	33kV Top Khongnangkhong- Porompat	7	Nil			
DMS01	33kV Iroisemba-Lamphel	10				
	33kV LILO Y'bam-Noney at Keithelmanbi	15				
	33/11kV Top Khongnangkhong substation		0.283 Reserve Forest (RF)	Forest proposal submitted on 20.02.18. Proposal under formulation at DFO since 19.10.18.		
	33kV Moirang- Kwakta	10				
DMS02	33kV Nambol - Leimapokpam	10	Nil			
	33kV Sanjenbam -Porompat	3	NI:I			
	33kV Khoupom - Thangal	20	Nil			
DMS03	33/11kV Porompat substation		0.27 Reserve Forest (RF)	Stage-I & Stage-II (final) approval obtained on 18.02.17 & 30.05.17 respectively.		
	33kV Napetpalli - Sanjenbam	10				
DMS04	33 kV LILO Copur-Singhat at Tuiliphai	10	Nil			
MEGHALAYA						
TW01	220 kV D/c Byrnihat-Mgap-New Shillong	122	45.09/ Forest as per dictionary meaning	Forest proposal submitted on 27.03.19. However, NOC from DFO East Khasi Hills received for Mawngap – New Shillong section as non- forest area. For balance Killing - Mawngap section, NOC is also expected since the area is found to be private land as per the		

Pkg.		Line	Forest	
No.	Name of the Line/Substation	•	(In Ha.)/	Status/Remarks
110.		(In km)	Туре	
				inspection report of DFO
				East Khasi Hills.
				Forest proposal submitted on
				23.01.19. Proposal
				forwarded to RMoEFCC,
		34		Shillong on 29.06.20.
			11.566/	However, RMoEFCC has
			Forest	raised certain observations
	LILO132kV MLHEP-Khliehriat at		as per	on both the proposals on 15.07.20. Compliance
TW02	Mynkre		dictionary	submitted to RMoEFCC
			meaning	against one proposal (6.17
				ha). But some more queries
				were given by RMoEFCC,
				compliance of which is
				currently under process at
				DFO, Jowai.
	132 kV D/c Phulbari-Ampati	49.633	Nil	
	33kV Mynkre - Mynkre	6 15		
DMS01	33kV Mynkre - Rymbai 33kV Mynke - Lumshnong	10		
	33kV Mynkre - Latykre	25		
	33kV Phulbari-Rajballa Bhaitbari	10	Nil	
	33kV Phulbari - Chibinang	6		
DMS02	*	35		
	33kV Phulbari-Phulbari	6		
	33kV LILO Tikrila-Phulbari	6		
	33kV New Shillong - Mawpat	25		
	33kV SE Falls - Mawpat	10		
DMS03	33kV New Shillong -N. Shillong	6	Nil	
DIVISU3	33kVN.Shillong- Mawryngkneng	26	INII	
	33kV LILO Jowai-L'krem	4		
	33kV Jongksha-Mawkynrew	8		
		TRIPL	JRA	
TW01			2.5118/	Stage-I & Stage-II (final)
	132 kV D/c Bagafa-Belonia	14	Un-	approval obtained on
	102 IV Bro Bagala Bolollia		classed	30.10.18. & 07.06.19
				respectively.
			06 7720/	Stage-I & Stage-II (final)
	132 kV D/c Udaipur-Bagafa	32	26.7732/ RF	approval obtained on 09.04.18 & 06.06.19
				respectively.
				Stage-I & Stage-II (final)
	132 kV S/c Bagafa-Satchand	40	9.1503/	approval obtained on
			RF	12.10.18. and 24.08.20.
	132kV S/c Sabroom-Satchand	1	Nil	
	at Sabroom			
	132kV S/c S'room-S'chand at	1	Nil	
TW02	S'chand	<u> </u>		
	132 kV D/c Rabindranagar-	40	74.9493	5 5 7
	Belonia		/	approval obtained on

Pkg.		Line	Forest	
No.	Name of the Line/Substation	-	(In Ha.)/	Status/Remarks
		(In km)		10.01.10
			RF	12.04.19 & 22.06.20
				respectively. Stage-I & Stage-II (final)
	132 kV D/c Rabindranagar-		21.1896	approval obtained on
	Rokhia	24		28.06.18 & 07.06.19
			RF	respectively.
			25.5204	Stage-I & Stage-II approval
	132 kV D/c Belonia-Sabroom	42	RF	obtained on 28.06.18 &
	LILO 132kV S/c		Nil	05.08.20 respectively.
	Surajmaninagar- Rokhia at	5	1 1 1	
	Gokulnagar	Ū		
	LILO 132kV S/c Ambassa-	4	Nil	
	P.K.Bari at Manu	4		
	132 kV D/c Kailashahar-		14.3586	Stage-I & Stage-II approval
	Dharamnagar	24	/RF	obtained on 10.04.18 &
TW03	LILO132kV 79 Tilla-Dhalabil at			07.06.19 respectively.
10000	Mohanpur	2	Nil	
			22.0482	Stage-I & Stage-II approval
	132 kV D/c Udaipur-Amarpur	30	/RF	obtained on 10.04.18 &
		_		29.08.19 respectively.
	132 kV Manu-Manu	2	Nil	
		8.537	2.705/ Unclassifi	
	33kV Dalak - Jatanbari		ed Govt.	Stage-I approval obtained on 17.06.2021.
			Forest	
	33kV LILO T'mukh-Silachari at		(UGF)	
	Karbook	6		
	33kV LILO Jolaibari-Bagafa at	16	-	
DMS01	M'pur	16	-	
	33kV Dalak- Amarpur	15		
	33kV Belonia - Chittamara	8	Nil	
	33kV Garjee to Chittamara	20		
	33kV Udaipur to Maharani	8		
	33kV Garjee-Maharani	20		
	33kV Amarpur-Chechua	16		
	33kV Sabroom - Manughat	10		
	33kV Manughat - Srinagar	20		
	33kV Satchand - Srinagar	22		
	33kV Tapping point of Belonia-	25	-	
	Hrishyamukh to Srinagar	25		
DMS02	33kV Rupaichari - Sabroom	12	Nil	
	33kV Satchand - Rupaichari	10		
	33kV Rajnagar - Ekinpur	20		
	33kV LILO S.Nagar-Takarjala at	4		
	Gabardi		4	
	33kV LILO Belonia-Rajnagar at Barpathari	10		
		l		

Pkg.		Line	Forest	Otatus /Damarka	
No.	Name of the Line/Substation	-	(In Ha.)/	Status/Remarks	
	33kV Jolaibari - Satchand	(In km) 18	Туре		
	33kV Jolaibari - Satchari	30	18.19/ UGF & RF	Stage-I approval obtained on 17.06.2021.	
	33/11 kV Ekinpur Substation		0.1962 /RF	Stage-I & Stage-II approval obtained on 02.04.20 & 20.10.20 respectively.	
	33/11 kV Barpathari Substation		0.2209 (Forest & Trishna WL) / RF	Forest: Stage-I & Stage-II approval obtained on 04.03.20 and 18.03.21 respectively. Wildlife: National Board for Wildlife (NBWL) permission obtained on 17.12.19.	
	33kV Gokul Nagar-Golaghati	15		obtained on 17.12.19.	
	33kV Gokul Nagar-Durganagar	15			
	33kV G'Nagar-Tapping at				
	Madhupur-Jangalia	1			
	33kV Rajnagar-Nidaya	20			
	33kV Takarjala- Golaghati	15	N ISI	Ne. Ferretinus hued	
	33kV Madhupur-Durganagar	14	Nil	No Forest involved	
	33kV Kathalia-Nidaya	12			
	33kV Melagarh-Nalchar	10			
DMS03	33kV Bishramganj-Nalchar	10			
	33kV Bishramganj-Jangalia	15			
	LILO B'ghat-Jangalia at S'kote	04			
	33/11 kV Nidaya Substation		0.3299 (Forest & Trishna WL) /RF	Forest: Stage-I & Stage-II approval obtained on 16.03.20 and 19.03.21 respectively. Wildlife: National Board for Wildlife (NBWL) permission	
				obtained on 17.12.19.	
	33kV Mohanpur -Barkathal	14			
	33kV Lembucherra -Bamutia	6			
	33kV Champak Nagar-ADC HQ	9			
	33kV Dhalabil –Khowai	8			
	333kV Jirania -ADC HQ	5			
	33kV Hezamara -Simna	22			
	33kV Hezamara -Barkathal	12	Nil		
	33kV Durjoynagar -Bamutia	14			
	33kV Ampura - Khowai	16			
	33kV Mohanpur -Hezamara	16			
	33kV Jirania -Champak Nagar	8			
DMS04		20			
	LILO Agartala -Mohanpur at Lembucherra	4			
	LILO Khayerpur -Jirania at	8			

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	Ranirbazar	(,		
	LILO Ambassa-Teliamura at Mungiakami	2		
	33kV Hezamara -Dhalabill	22	10.448/ UGF & RF	Stage-I approval obtained on 30.04.21.
	33kV Teliamura - Taidu	12	5.0948/ UGF	Stage-I approval accorded on 05.05.21.
	33kV Manu - Dhumachhera	25		
	33kV Manu - 82 mile	21		
	33kV Manu-Tapping of C. Manu- Manu	4		
	33kV P.K.Bari - 82 mile	13	Nil	
	33kV Kalaisahar-Tilla Bazar	14	INII	
	LILO C'manu-Manu at Chailengta	8		
DMS05	LILO Salema-Kamalpur at D. Chowmohani	14		
	33kV J'Nagar-Dhumachhera	20	21.3339/ UGF & RF	Stage-I approval obtained on 28.06.21.
	33kV Ambassa-Jawhar Nagar	13	0.9972/ UGF & RF	Stage-I approval accorded on 03.03.21. Working permission obtained on 10.05.21
		MIZOF	RAM	
	132kV S/c Lungsen-Chawngte	39		No forest involved.
TW02	132kVS/c Chawngte-S.Bungtlang	45		
	132kV S/C Lunglei-Lungsen	0.5	Nil	
SS02	132kV S/c West Phaileng-		104.77 / Forest as per	Forest: Stage-I obtained on15.01.21.Workingpermissionobtained21.04.21.
0002	Marpara	50	dictionary meaning/ RF	Wildlife: Proposal recommended by Standing Committee of NBWL in the meeting held on 03.07.20.
	33kV Lungsen-Lungsen	5		
DMS01	33kV West Phaileng- W.Phaileng		Nil	
		NAGAL	AND	
TW01	220 kV S/c N. Kohima-Wokha- M.chung	92	Nil	No forest involved
TW05	132 kV D/c Kohima- New Secretariat Complex	28	Nil	
	132 kV S/c Wokha-Zunheboto- M'chung	97	Nil	
TW06	132 kV S/c Tuensang-Longleng	36	Nil	
	LILO of 132 kV S/c Kohima- Workha at New Kohima	15	Nil	

		Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	LILO of 132 kV S/c Mo'chung- Mariani at Longnak	1	Nil	
	LILO 132 kV D/c Kohima-Meluri at Pfutsero	16	Nil	
	33kVM'chung-Mariani to Longtho	0.5		No forest involved
DMS01	LILOM'chung-Mariani at Longnak	2	Nil	
	33kV Longleng -Longleng Town	5		
	33kV M'chung-M'chungTown PH	12		
	33kV M'chung-M'chung TH Area	16		
DMS02	33kV Zu'boto- Zunheboto South	4	Nil	
	33kV Suruhuto -Akuloto	18		
	33kV Pughoboto -Torogonyu	4		
DMS03	33 kV New Kohima -Zhadima	1	Nil	
DIVI303	33 kV Pfutsero - Pfutsero	4		
DMS04	33 kV Nagarjan-Padam Pukhri.	10	Nil	
	Total	3019.27	426.688	

3.1.2. Status of corrective actions/ from previous missions/field visits

Till reporting period (up to June 21), total five implementation support missions have been completed by the World Bank. Due to prevailing COVID-19 situation, the 5th mission i. e. Mid-Term Review (MTR) was undertaken virtually from January 18 to 19, 2021. During the mission, the Bank team organized virtual meetings with the officials of POWERGRID, State Utilities of the six states wherein review safeguards implementation and compliance was also undertaken. Based on the above discussion/deliberation, Bank has proposed some corrective actions/ milestones agreed in their Aide Memoire issued on 3rd March' 21. The status of agreed actions pertaining to E & S safeguard aspects are summarized below in **Table-3**.

Plate 1: Mission Team Visit to Sites during 4th Implementation Support Mission



Table- 3: Status of agreed actions related to E & S Safeguards

S. N	Actions		Responsible	POWERGRID'S Compliance status
1.	Share composition project/site GRCs in all s	of level	POWERGRID	Details of project/site level GRCs already shared with Bank in April, 21

2.	Share information/	POWERGRID	Social details of landowners already
2.	details on Socio- category (ST, Gen, WHH) of landowners from whom land has been taken on donation, lease or	FOWENGRID	shared with Bank in April, 21
3.	purchase Share details on		The entire length (i.e. 21 km) of the 122 kV
3.	number of cases (PAPs) where there are issues with payment of compensation to dwellers in forest area without any ownership documents such as right under FRA/Patta/Possessio n certificate particularly in (Manipur and any other state)	FOWERGRID	The entire length (i.e. 21 km.) of the 132 kV Rengpang-Tamenglong line in Manipur falls under " unclassified forest " category that is either under the control of Village Councils or Private land owners in 7 villages of Tamenglong & Noney Districts. Since the private landowners inherited these lands from generations without having any ownership documents/FRA/Patta/ Possession certificates etc, POWERGRID has requested Chief Secretary, Manipur to intervene in this matter and issue necessary directive in this regard. So far, the compensation assessment for Tamenglong district has been completed and a demand of compensation of Rs. 8.84 Cr. involving 19 cases has been received from DC, Tamenglong.
4.	Expediting and sharing Final Environmental Assessment Report for other sub-projects (Bank to share comments on draft report for Assam by February 28, 2021)	POWERGRID	Till date 8 FEARs (1 for Meghalaya and 2 for Nagaland, 3 for Manipur & 2 for Assam) have already been approved/disclosed. Besides, 7 FEARs (1 for Meghalaya, 4 for Tripura & 2 for Mizoram) are under preparation/revision by respective Consultants or under review of Bank. However, POWERGRID has been raising the issue with Bank regarding competency /understanding level of Independent Consultants particularly M/s Green Circle Inc. who has been awarded with FEARs of Tripura & Mizoram
5.	Sharing Initial Environmental Assessment Report (IEAR) for planned new lines across Assam and Tripura	POWERGRID	•

recently (August 21). So, both reports are under finalization and sh submitted to Bank by Sept.,21.	
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It is also worth mentioning that most of the observations made by the Bank in their previous implementation support missions such as expediting the compensation payment in respect of tree, crop & land, finalization of independent agency for conducting FEAR, expediting Forest and/ or Wildlife clearance proposals, implementation of site specific management and mitigation measures for substations, filling up vacancies for field officer (ESM) in Manipur and Meghalaya etc. were either complied and/or being complied, wherever such actions are of continuous nature.

3.1.3. Status of implementation of site-specific mitigation measures

As already explained, the subprojects are being implemented as per provisions enlisted in Environment Management Plans (EMP) to minimize/mitigate the identified impacts associated with each subproject component to the extent possible. The EMP contains mitigation measures including monitoring indicators with responsibility allocation in different stages of project cycle. For ensuring proper and effective implementation of various measures by contractors/sub-contractors engaged in construction, it has also been made part of contract condition/bidding document. The summarized status of EMP compliance is presented in **Appendix-1**.

In addition to implementation of EMP provisions, some site-specific measures related to slope protection/stabilization (viz. retaining wall, toe wall, revetment wall, stone pitching, guard wall, bio-engineering measures etc), drainage (such as cross drainage, culverts), approach road and other protection measures etc. are being undertaken/have been planned as per the site requirement/conditions and subsequent technical approval through committee. Further, rain water harvesting system which is an integral part of substation design will also be implemented based on the site condition/requirement. The details of such measures which are already under implementation/ approved for implemented at different sites are placed as **Plate -2**. For others sites also, similar procedure shall be followed and status of site specific measures will be updated as per work progress.

It may be noted that to implement such site-specific measures at appropriate time, adequate budgetary provisions has been made through Revised Cost Estimate (RCE) or as additional quantity against Bill of Quantity (BoQ). Accordingly, requirement of approach road has already been worked out for various substations and provision of Rs. 20 crore has been included in the RCE. Similarly, apart from implementation of retaining wall/revetment wall, Unequal Leg Extension (ULE) other slope protection measures like stone pitching, bio-engineering measures etc. are also being explored & will be executed as per the site requirement.

SI. No	Name of Substation /Line	Required Approach Road (length in meter)	Type of Slope Protection/ Stabilization / bio- engineering Measures	Other measures (rainwater harvesting/ cross/ outer drainage etc.
		* Planned,	** Under Implement	ation, *** Completed
		ASSA	M	
1	132/33 kV GMC	100**		Outer peripheral drain* & box culvert***
2	132/33 kV Silapather	128**		
3	132/33 kV Sarupathar	10*		
4	220/132 kV Amingaon	200**	RRM Wall***	
5	132/33kV Chapakhowa	20**		
6	132/33 kV Hazo		RRM Wall***	
7	132/33 kV Tangla	33**		
8	132/33 kV Tezpur New	100*	RRM Wall**	Outer drainage*
9	132/33 kV Teok	22**	RRM Wall**	
10	33/11 kV Harsingha	62**	RRM Wall**	
11	33/11 kV GS Road		RRM Wall***	
12	33/11 kV Mailo	105**		
13	33/11 kV Chabipool		RRM Ret. Wall***	Box culvert***
14	33/11 kV Dibrugarh Electrical SD-3		RRM Wall***	
15	33/11 kV Silapathar II	15**	RRM Wall**	
16	33/11 kV Sesa		RRM Wall***	
17	33/11 kV Ramdiya		RRM Wall***	
18	33/11kV D'doma- hazo		RRM Wall***	
19	33/11 kV Arya College			Box culvert***
		MANIP		
20	132/33kV Tamenglong	215*	Boundary Wall**	
21	33/11 kV Takyel			
22	33/11 kV Lamphel			
23	33/11 kV Top Khongnangkhong	23***	RRM Wall***	
24	33/11 kV Porompat		Boundary Wall***	Outer drainage***
25	33/11 kV Andro	25*	RRM Wall***	
26	33/11 kV Hiyangthang	41.7*	RRM Wall***	Crossing*
27	33/11kV Keithelmanbi	290***	Boundary Wall***	
28	33/11 kV Kwakta	05*	Boundary Wall***	
29	Aug.of 33/11 kV Ukhrul		Retaining Wall***	
30	33/11 kV Tuilaphai	84**	Boundary Wall***	
31	33/11 kV Sanjenbam	22.5**	Retaining Wall***	
32	132/33kV Gamphajol	120*	Retaining wall**	
33	Pishum (GIS)		RRM***	
		MEGHAL	[]	
32	220/132/33 kV New Shillong	20*	Ret. Wall** Stone Pitching* & Grass with bamboo grids**	Rain Water Harvesting**
33	132/33 kV Mynkre	25*	RRM Wall*	

Table-4 : Status of implementation of Site-specific Mitigation Measures

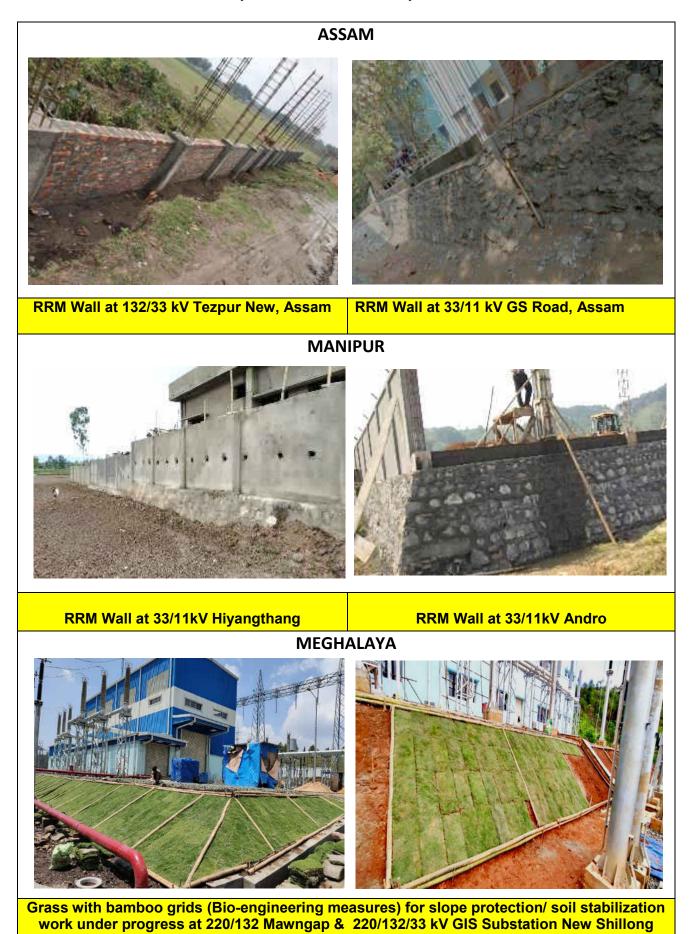


Plate 2 : Implementation of Site Specific Measures

Name of Substation /Line	Required Approach Road (length in meter)	Type of Slope Protection/ Stabilization / bio- engineering Measures	Other measures (rainwater harvesting/ cross/ outer drainage etc.
	* Planned *	* Under Implementation	n,*** Completed
132/33 kV Phulbari	10*	Rev., RRM Wall** & Grass with bamboo grids*	Outer drainage*
220/132/33 kV Mawngap		RRM Wall** & Grass with bamboo grids*	
33/11 kV Rymbai		RRM Wall***	Outer drainage*
33/11 kV Latyrke		RRM Wall***	Outer drainage*
33/11 kV Rajballa- Bhaitbari		Rev. RRM Wall**& Grass with bamboo grids*	Outer drainage*
33/11 kV Chibinang		RRM Wall**	Outer drainage*
33/11 kV Raksambre		RRM Wall***	Outer drainage**
33/11 kV Mawpat		RRM Wall***	-
ě			
33/11 kV Mawkneng		RRM Wall***	
	MEGH		
33/11 kV Mawkynrew			
220 kV D/c Byrnihat- Mawngap-New Shillong		RRM Wall- Total 57** (8***) & ULE : 100*, 54** & 7***)	
LILO of 132 kV MLHEP- Khliehriat Line at Mynkre		RRM & Revetment Wall-Total 28*(5***) & ULE: 35***	
33/11 kV Mynkre			Outer drainage**
220 kV Byrnihat (Killing) Bay Extension			Outer drainage**
	TRIF	PURA	
132/33kV Bagafa	50**	Retaining Wall**	01 No. recharge pit
132/33kV Belonia	115**	Retaining Wall**	in each substation*
132/33kV Satchand		Retaining Wall***	Outer drainage*
132/33kV Gokulnadar		Retaining Wall***	
.	250*	0	4
		0	
		<u> </u>	4
•			1
	150*		
, , ,	100	RRM Wall***	
, , , , , , , , , , , , , , , , , , ,	500**		
33/11kV Nidaya	200*		
	132/33 kV Phulbari 220/132/33 kV Mawngap 33/11 kV Rymbai 33/11 kV Rajballa- Bhaitbari 33/11 kV Rajballa- Bhaitbari 33/11 kV Rajballa- Bhaitbari 33/11 kV Raksambre 33/11 kV Raksambre 33/11 kV Raksambre 33/11 kV New Shillong 33/11 kV Mawkneng 33/11 kV Mawkneng 33/11 kV Mawkynrew 220 kV D/c Byrnihat- Mawngap-New Shillong LILO of 132 kV MLHEP- Khliehriat Line at Mynkre 33/11 kV Mynkre 220 kV D/c Byrnihat- Mawngap-New Shillong LILO of 132 kV MLHEP- Khliehriat Line at Mynkre 33/11 kV Mynkre 220 kV Byrnihat (Killing) Bay Extension 132/33kV Bagafa 132/33kV Belonia	Road (length in meter)* Planned *132/33 kV Phulbari10*220/132/33 kV Mawngap33/11 kV Rymbai33/11 kV Rymbai33/11 kV Rajballa- BhaitbariBhaitbari33/11 kV Chibinang33/11 kV Rajballa- Bhaitbari33/11 kV Raksambre33/11 kV Raksambre33/11 kV Mawpat33/11 kV New Shillong33/11 kV New Shillong33/11 kV MawknengMEGH33/11 kV Mawkneng10*220 kV D/c Byrnihat- Mawngap-New ShillongMEGH33/11 kV Mawkynrew220 kV D/c Byrnihat- Mawngap-New Shillong112/0 of 132 kV MLHEP- Khliehriat Line at Mynkre115**220 kV Byrnihat (Killing) Bay Extension50**132/33kV Bagafa50**132/33kV Belonia115**132/33kV Gokulnagar112/33kV Manu132/33kV Manu250*132/33kV Manu132/33kV Amarpur132/33kV Ambassa (Extn.)150*33/11kV Golaghati150*	Road (length in meter)Stabilization / bio- engineering Measures* Planned ** Under Implementation 10*Rev., RRM Wall** & Grass with bamboo grids*132/33 kV Phulbari10*Rev., RRM Wall** & Grass with bamboo grids*220/132/33 kV MawngapRRM Wall*** & Grass with bamboo grids*33/11 kV RymbaiRRM Wall*** Grass with bamboo grids*33/11 kV Rajballa- BhaitbariRev. RRM Wall*** Grass with bamboo grids*33/11 kV Rajballa- BhaitbariRRM Wall*** Grass with bamboo grids*33/11 kV Rajballa- BhaitbariRRM Wall*** Grass with bamboo grids*33/11 kV RaksambreRRM Wall*** Sal/11 kV Nawspat33/11 kV New ShillongRRM Wall*** RRM Wall***33/11 kV MawpatRRM Wall*** RRM Wall***33/11 kV MawknengRRM Wall*** RRM Wall***20 kV D/c Byrnihat- Mawngap-New ShillongRRM & Reverment Wall-Total 57** (8***) & ULE: 100*, 54** & 7***)LILO of 132 kV MLHEP- Khliehriat Line at MynkreRRM & Reverment Wall-Total 28*(5***) & ULE: 35***33/11 kV MynkreZ20 kV Byrnihat (Killing) Bay ExtensionRetaining Wall** 132/33kV Bagafa 115**132/33kV Bagafa50** Retaining Wall***132/33kV GokulnagarRetaining Wall*** 132/33kV Manu132/33kV AmarpurZ50* Retaining Wall***132/33kV AmarpurRetaining Wall*** 132/33kV Amapsa (Extn.)150* 33/11kV GolaghatiRRM Wall***

TRIPURA Retaining Wall at 132/33kV Satchand Retaining Wall at 132/33kV Manu MIZORAM

RRM Retaining Wall at 33/11 kV S Bungtlang

ULE in 132 kV Lungsen – Lunglei Line

NAGALAND



Retaining Wall (RCC) at 132/33kV Longnak

RRM wall at AP-07 of LILO 132kV D/C Kohima to Meluri at Pfutsero

SI. No	Name of Substation /Line	Required Approach Road (length in meter) * Planned, *	Type of Slope Protection/ Stabilization / bio- engineering Measures ** Under Implementation	Other measures (rainwater harvesting/ cross/ outer drainage etc. n,*** Completed			
		NAGAL	.AND				
61	33/11kV Simna	200*					
62	33/11kV Jawaharnagar	25*					
63	33/11kV 82 Mile	5*					
64	33/11kV Dhumachhara	5*					
65	132/33kV Secretariat Complex Kohima	1000**	RRM & Retaining Wall***				
66	132/33 kV Longnak		Retaining Wall**				
67	132/33 kV Longleng	600**	Retaining Wall*				
68	132/33 kV Pfutsero	100*	Retaining Wall**				
69	132/33 kV Zunheboto	11700*	Retaining Wall*				
70	Ext. of 132/66/33 kV Mokokchung		RRM & Retaining Wall***				
71	Ext of 132/33kV Wokha		RRM & Retaining Wall***				
72	33/11 kV Longtho	700*					
73	Aug. of 33/11kV Torogonyu		Fencing*				
74	Aug. of 33/11kV Tseminyu		Stone Pitching*				
75	220 kV S/c N. Kohima- Wokha-M.chung		ULE : Total 233** Revetment Wall – 5**				
76	132 kV D/c Kohima- New Secretariat Complex		Revetment Wall – 2 (1** + 1***) and ULE - Total 14 (10***+4**)				
77	132 kV S/c Wokha- Zunheboto-M'chung		ULE - Total 101 (76* + 25***)				
78	132 kV S/c Tuensang- Longleng		ULE - Total 77 (55*+22**)				
79	LILO of 132 kV S/c Kohima-Wokha at New Kohima		ULE - Total 14***				
80	LILO 132 kV D/c Kohima- Meluri at Pfutsero		Revetment Wall – 5 (3***+2**) and ULE - 8***				
	MIZORAM						
81	132/33 kV Lungsen	120*	Retaining Wall* Stone Pitching*	Cross drainage* Outer drainage*			
82	132/33 kV West Phaileng	80*	Retaining Wall*	Cross drainage**			
83	132/33 kV Marpara	130*	Retaining Wall* Grass with bamboo grids*	Cross drainage*			
84	33/11kV S. Bungtlang	200*	Retaining Wall**	Cross drainage*			

85	Aug. of 132/33 kV Lunglei	113*	Retaining Wall* Stone Pitching*	Cross drainage*
86	132 kV Lungsen-Chawngte		Unequal Leg Extension (ULE)- 76*	
87	132 kV Chawngte- S.Bungtlang		ULE- 56 *	
88	132kV S/C Lunglei- Lungsen		ULE-4*	
89	132 kV West Phaileng- Marpara		ULE- 159**	

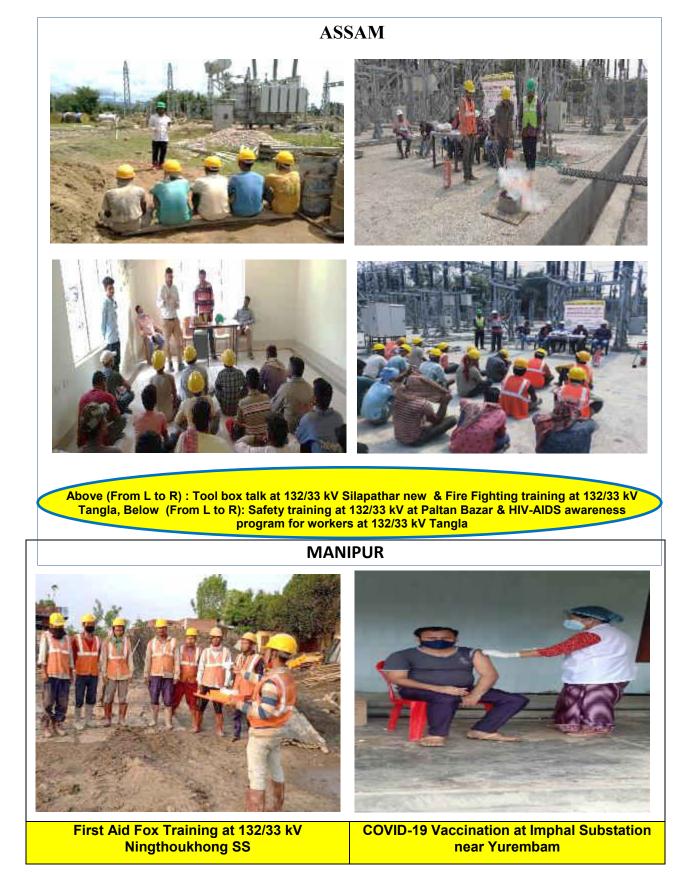
3.1.4. Occupational Health and Safety

Safety of workers as well as of residents of areas close to the project activities is always a challenge mostly during project execution stage. In the instant project also, occupational health & safety has been given top priority and all health and safety issues and their management aspects have made integral part of project through contract conditions/ contract specific safety plan. All the subprojects are being executed as per the approved safety plan and regularly monitored by dedicated Safety personnel. Further, strict compliance of various contractual aspects to work and safety regulations, workmen's compensation, insurance, safety standard/plan etc. by the contractor(s) are ensured.

The compliance of safety guidelines/checklists including work permits, height use of PPEs and other safety precautions are regularly monitored by site in-charge. Mock drill such as fire safety, victim rescue/Cardio-Pulmonary Resuscitation, first aid etc. are conducted periodically to enhance the preparedness level of the workforce. Availability of First aid facilities and/or ambulance at work site is ensured to face any eventuality. Safety induction & awareness programme including HIV/AID are also conducted at every active site. Safety film for transmission project developed by POWERGRID have been translated in local languages² like Assamese, Manipuri, Bengali, Khasi & Nagamese, Mizo apart from English & Hindi and is shown to workers regularly. Additionally, every day before start of work tool box talk is held which also include safety aspects/instruction. Photographs/ documents related to safe work practices including safety awareness are placed as **Plate-3**. It is heartening to note that till June'21 no accidents (fatal or non-fatal) including major/minor injuries were reported from any of the construction sites.

² Also available on POWERGRID's website <u>http://www.powergridindia.com/ner-agreements-and-mous</u> NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2021

Plate-3 : Safe Work Practices in different States/Sites during reporting period



MEGHALAYA

COVID-19 VACCINATIO



Safety briefing on use of Fire extinguisher and mock drill at 220/132/33 kV GIS New Shillong substation

COVID-19 Vaccination camp for stranded labours and contractor's staff at CHC Mawphlang, Shillong

NAGALAND



Toolbox talk and briefing on excavation safety at 132/33 kV Longnak S/s

Mock Drill Conducted at 132/33kv Longnak S/s



Sabroom Substation

safety banners

MIZORAM





Tool box talk at 33/11kV kV South Bungtlang Substation Tool box talk at 132/33 kV West Phaileng Substation



	ANTERGENCI CON	TACT NUMBER
	(Bagofa	Site)
Si no.	Contact Person	Contact Number
1	Site In-charge	7320837473/7640939793
2	HR & Admin Dept.	8837410576/9089068668
3	Safety Dept.	7874398415
4	Security	
5	Hospital /Ambulance	03823262248
6	Police	03823262231
7	Fire	03823262244

SPM



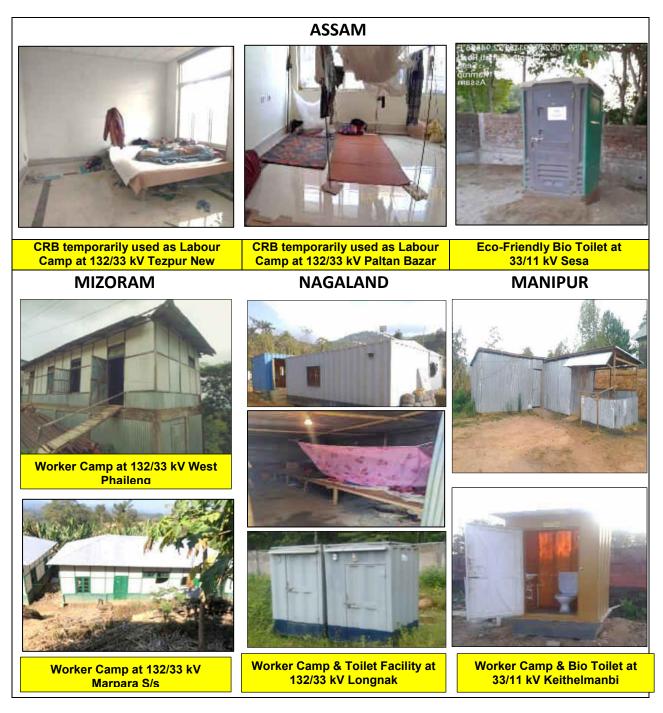


Above: Display of Safety Poster, Emergency numbers and First Aid Kits at all active Site Below : Regular Medical Health Check-up and HIV/AID Awareness at different Sites

The amenities for worker's including occupational health, safety and hygiene at work site is the responsibility of contractors/sub-contractor(s), who is also abide by various provisions related to worker welfares in contractual agreements and EMP. Moreover, as per contract agreement contractor and his sub-contractors shall abide at all times by all applicable existing labour enactments and rules made thereunder, regulations notifications and byelaws of the State or Central Government or local authority and any other labour law (including rules), regulations bye laws that may be passed or notification that may be issued under any labour law. Accordingly, it is ensured that all contractors employed are operating with valid labor license as per provision under section – 12(1) of the Contract Labour (Regulation & Abolition) Act, 1970 and also certified under Section-7(3) of the Building and Other Construction Workers (Regulation of Employment and Condition of Service) Act, 1996 from Ministry of Labour & Employment. Besides, the contractors have obtained requisite insurance policy as per provisions of Employee Compensation Act, 1923 for its employed workforce.

State	Name of Contractor	Package	Approved Worked force	Worked force(max.) Employed
Assam	M/s Neccon Power & Infra Ltd	SS-01-03, DMS-01	340	180
	M/s JV Techno & Seiyuan	SS-04	100	40
	M/s T & R (India) Ltd	TW-01	100	10
	M/s Meher Foundation & Civil Engg. Pvt. Ltd	P - 01	30	5
	M/s Power Mech Projects Ltd	TW-02 & 05	110	55
	M/s Teems India Pvt. Ltd	TW-04	60	22
	M/s Simplex Infra. Ltd.	TW-07	100	30
	M/s Sterling & Wilson Pvt. Ltd.	DMS-02 & 03	300	105
Meghala	M/s Neccon Power & Infra Ltd	DMS-01-03, SS-01	215	118
уа	M/s Techno Electric & Engineering Co. Ltd.	SS-02	100	68
	M/s Unique Stru. & Towers Ltd.	TW-01 & 02	400	310
Tripura	M/s. SPML	SS-01, 02 & 03	300	64
	M/s. TEEMS on behalf of M/s. EMC Limited	TW-01, 02 & 03	300	56
Manipur	M/s Win Power Infra Pvt. Ltd	DMS -01 & 02	60	15
	M/s Siddhartha Engg. Ltd.	DMS -03 & 04	50	40
	M/s Sterling & Wilson Pvt. Ltd.	SS-01 & 03	360	116
	M/s Shyama Power India Ltd.	SS-02 & TW-06	200	44
Mizoram	M/s KSA Powerinfra Pvt. Ltd	SS-01, TW-01	100	100
	M/s Sterling & Wilson Pvt. Ltd	SS-02	119	109
Nagaland	M/s Sterling & Wilson Pvt. Ltd.	DMS-03 & 04	200	33
	M/s Shyama Power India Ltd.	TW-01,05,06 & SS- 03	400	205
	M/s Techno Power Ente. Ltd	DMS-01 & 02	75	39
	M/s Power Mech. Projects Ltd.	SS-02 & 04	100	47
	M/s Techno Electric & Engineering Co. Ltd	SS-01	100	62

It is pertinent to mention that actual number of manpower employed at each site/package varies significantly from time to time depending upon the work requirements as well as availability of contract labour. The detail of state wise approved manpower obtained by different contractors along with maximum no. of workers employed on any day during the reporting period is provided in the table below; Further in every active site, it is ensured that the construction contractor must provide necessary accommodation arrangements along with uncontaminated water for drinking, sanitation, cooking, washing & other health & hygienic conditions through regular monitoring as per provisions of contract agreement and EMP. Some photographs of worker facilities provided at different sites are placed as **Plate- 4.** Besides, the workforce are regularly instructed to respect local people, tradition, culture and not to indulge in any activities with local through strictly controlling entry of outsiders in non- working hours is ensured to avoid any conflict with the local people.



Besides, the COVID-19 pandemic outbreak has not only created unprecedented situation all over world but also impacted every aspects/ activities including project implementation. Since such pandemic is a totally unforeseen/ unexpected impacts associated with such events/situations have not been specifically included in existing EMPs which were prepared long back. However, the existing safety plan and other contract conditions particularly related to labours do have provisions to deal with such extraordinary situations.

It is pertinent to mentioned that Govt. of India has enforced The Disaster Management Act, 2005 and Epidemic Diseases Act, 1897, w.e.f. March,2020 in whole of India which empower the GoI & State governments to take special measures and prescribe regulations in an epidemic to control the spread of the virus. Provisions of these acts which are also enforceable on all provide that all the protocols of Govt of India and State

Govt in respect of COVID-19 are to be mandatorily followed. Individual protocols also required necessary permission from Govt. Therefore, POWERGRID and all its contractors are duty bound to follow the instructions of government including closing of all construction activities during lockdown and the guidelines issued after detailed assessment regarding unlock which allows work to start with certain conditions. Based on this, POWERGRID Corporate Safety Cell has also prepared a detailed guideline / plan to be followed at all its establishments. Construction sites and O&M during resumption of work in COVID-19 situation and site officials/contractors directed for ensuring strict implementation of the said guidelines. Besides, POWEGRID has provided food relief/exgratia payment to stranded workers and also financial assistance for improvement of health infrastructure/other medical facility/equipment. Till date, POWERGRID has already spent 27.33 lakhs towards food/ration distribution to 7722 beneficiaries and approx... Rs.22.79 lakhs for distribution of PPE kits (Masks. Gloves, Sanitizers, Medicines etc.) Some photographs of COVID specific measures related to health & hygiene, sanitization, availability of PPEs and adherence to social distancing norms including daily awareness on COVID during Tool Box Talk etc. followed at different sites are placed as Plate-13.

3.1.5. Environmental awareness and training

Knowledge about environmental problem in general and environmental issues associated with project in particular not only enhances the environmental sensitivity of the project staff but also helps in compliance with safeguard issues associated with the project. Accordingly, Environmental and Social Management trainings have been made an integral part of the Capacity Building & Institutional Strengthening (CBIS) Framework.

Till reporting period, specialized E & S training program one each for Nagaland, Mizoram, Assam and Tripura State has been conducted under CBIS and the same has been planned in other remaining States in near future. In additional to above, a three days training programme exclusively for its project personnel associated with construction and safeguards management at site under NERPSIP was organized at PAL Manesar, Gurgaon on 11-13 December, 2018. During such programs subject experts from leading organizations like the World Bank, ADB, MoEFCC and domain experts from university/ research institutes interacted with the participants and gave them a clear insight about the relevant environmental and social issues. Apart from project specific E & S safeguard matters these trainings also covered topics like engagement with indigenous people & gender issues with special reference to NER and best international practices. Some photographs and training modules for such programs are placed as **Plate- 5**. Details of training programs conducted till reporting period is provided below in **Table-5**.

SI.	Topic of Training Program	Place & Date	Participants Level	Total Mandays
1	E & S aspects of projects and	Conference Hall DPN,	Middle	42
	System Planning & STU	Kohima, Nagaland	Management	
	Management under NERPSIP	23 & 24 April' 18	_	
2.	E & S aspects of T and	Aijal Club, Aizawl,	-Do-	36
	Distribution Projects under	Mizoram		
	NERPSIP	23 & 24 th May'18,		
3	Env. & Soc. aspects of T & D	Pragna Bhavan,	All levels	54
	Projects under NERPSIP	Agartala, Tripura		
		4 & 5 th Sept'18		

Table-5: Details of Training program under NERPSIP	Capacity Building
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4	E & S Safeguard Management of NERPSIP	PAL Manesar, Gurgaon 11-13th Dec' 2018	Middle management	69
5	Environment Safeguard Management in T& D Projects	Employee Development Centre (EDC), Misa (Assam) 6 & 7 th May 2019	Manager and Jr. Engg. level of AEGCL/APDCL	60
6	Environmental and Social Aspects in Project Management	Guwahati, Assam 6 & 7 th May 2019	Middle Mgmt. including Site Officials	48
7	Environment Safeguard Management in T& D Projects	EDC, Misa (Assam) 23 rd May 2019	Technician of MePTCL	15
8	Environment Safeguard Management in T& D Projects	EDC, Misa (Assam) 12 & 13 th June 2019	Technician of AEGCL/APDCL	40
9	Overview of Forest & Wildlife Clearance, Row Issues & Compensation and Land Acquisition for Public Purpose	Virtual 11 & 12 March 2021	Middle Management	6

Plate 5 : E & S Training Programme



Training program on "Environment and Social aspects of Transmission and Distribution Projects under NERPSIP" Date : 4th & 5th September, 2018 Venue : Pragna Bhawan, Agartala

Day/ Date	9.15 9.30 Hrs.	9.30 Hrs11.00 Hrs.		11.15 Hrs12.45 Hrs.		13.45 Hrs. – 15.15 Hrs.		15.30-17.00 Hrs.
Day 1 04.09.18	Inauguration & Keynote Address	Environmental and Social Policy & Procedures Framework (ESPPF) - A Recap	REAK	World Bank E & S Safeguard Requirements for T & D Projects	BREAK	Ensuring EHS compliance as per Environment Management Plan (EMP)	REAK	Environmental Laws vis- a-vis Transmission Line Projects with special emphasis to Forest and Wildlife Clearance process
	т ө Х	S.K. Kar POWERGRID	TEA BF	K. Khumujam World Bank	NCH	K. Khumujam World Bank	rea Br	Suvendu Kar POWERGRID
Day 2 05.09.18		Forest & Bio-diversity issues in Developmental Projects and their Management	F	Forest & Bio-diversity issues in Developmental Projects and their Management	LU I	RoW Compensation and Diminution of Land Value due to placing of Transmission Line/Tower		Discussion & Feedback
		Dr. Sabyasachi Dasgupta, Tripura University		Dr. Sabyasachi Dasgupta, Tripura University		R. Ranjan POWERGRID		





TRAINING PROGRAMME ON ENVIRONMENT & SOCIAL SAFEGUARD MANAGEMENT OF NERPSIP Venue: POWERGRID Academy of Leadership (PAL), Manesar, Gurugram Date: 11th -13th December, 2018

DATE/ TIME	9.30- 9.45	9.45 -11.30		11.45 -13.00		14.00 - 1530		15.45 - 17.00
Day-1	Registration	Program Inauguration/ Light of Lamp and Inaugural Address by Chief Guest		WB Policies vis-a-vis E & S Management in Transmission Projects		Global Best practices in managing E & S issuses in T & D Projects & Case Study		Gender Issues and Policy Framework of WB
		Sh. H. S. Sohal, IFS PCCF & CVO, EIL		Sh. G. Joshi Sr. Env. Specialist, World Bank		Sh. K. Khumujam Env. Consultant World Bank		Ms. Sangeeta Kumari Sr. Soc. Specialist & Gender Expert, WB
Day-2		10.00 -11.30		11.45 -13.00		14.00 - 1530		15.45 - 17.00
	& aadd	ith Indigenous People (Tribal) ressing Gender Issues with I reference to NER States	BREAK	Environmental laws of India vis-à-vis Forest & Wildlife Clearance	CH BREAK	Engineering/Design Measures to meet safeguard e.g. - Slope stabilization including bio-engg measures - Bird Guards - Innovative Towers	BREAK	RoW Compensation and Diminution of Land Value due to placing of Transmission Line/Tower
	Forme	Sh. R. Swarankar, r Sr. Social Specialist ADB	TEA	Sh. S.S.Singh General Manager (ESM)	LUNCH	- Wildlife/Elephant protection Sh. Vinay General Manager (Engg.)	TEA	Sh. R. Ranjan Manager (ESM)
Day-3		10.00 -11.00		11.15-12.30]	13.30- 14.30]	
		nental and Social Policy & res Framework (ESPPF) - An Overview		EMP Implementation, Monitoring & Reporting Frameworks as per WB requirements e.g. Preparation of E & S Safeguard Documents e.g. IEAR/ FEAR/ CPTD Report		Panel Discussion, Valedictory & feedback		
		Sh. S.K. Kar Manager (ESM)		Sh. S.K. Kar Manager (ESM)				

3.1.6 Non-compliance notices issued to contractors/subcontractors

Contractors/subcontractors play a significant role in ensuring compliance with safety and environment provisions applicable to project, considering their role in actual implementation of the project activities at ground level. Additionally, most of the workforce assigned at sites are also directly under the control of contractors/subcontractors. In view of this, they have also been made accountable to compliance with safety and environment provisions by incorporating the project EMP and other contract clauses specifically aiming at safeguard compliance including safety as part of the contract documents.

POWERGRID's site officials ensure that these contract clauses are always complied by the Any incidence of deviation/non-compliance of the site contractors/ subcontractors. applicable contract conditions result in issuance of notice/letter to concerned contractor/ subcontractor for necessary compliance and further improvement. Besides, POWERGRID Regional Safety, Shillong conducts periodic safety check/audit in all active sites and strict compliance of observations made during audit is ensured from respective contractor/subcontractor. Sample copy of such notice/memo issued and corresponding compliance submitted by the respective contractor/ subcontractor is placed as **Appendix-2**. It may be noted that most of these notices/memos are related to inadequate worker facilities like labor camp, toilet, drinking water etc., non-availability/use of PPEs, compliance to safety audits, slow progress of EMP/other protection measures like boundary/ retaining/ revetment wall, drainage etc. deployment of designated safety officer and lapses in renewal of insurance under workmen compensation policies. However, repeated violations may result in penalties, termination of contractor and debarment from future association with POWERGRID. It is pertinent to mention that penalties have already been imposed in total 2 cases (one each in Assam & Mizoram) against non-compliance of EHS conditions by Contractors (Copy of sample letter enclosed as Appendix- 2a). Details of state-wise memo/notice issued related to compliance of health, safety and environment measure till reporting period is given in Table- 6.

State		Obs./ Notice till date	Total Obs./N during repo	Total Penalties, if any	
	Regional Safety	Site Officials	Regional Safety	Site Officials	
Assam	20	19	5	-	1
Meghalaya	7	22	-	3	Nil
Tripura	7	33	3	4	Nil
Manipur	13	26	3	6	Nil
Nagaland	2	37	0	4	Nil
Mizoram	1	32	-	5	1

Table-6: State wise nos. memo/notice/penalties issued to contractors/ subcontractors
related to health, safety and environment measures

4.1 Social Compliance

4.1.1 Substation Land:

The land requirement for construction of substation generally varies from 0.3 acres (for 33 kV) to 10 acres (220 kV) depending upon voltage levels and no. of bays. As per provisions in ESPPF, land for substation can be secured through adoption of following three methods;

- i) Purchase of land on willing buyer & Willing Seller basis on negotiated rate;
- ii) Voluntary Donation; and
- iii) Involuntary Acquisition.

Moreover, all land donations and direct purchases will be subject to a review/ approval by a broad based committee comprising representatives of different sections including those from the IA and State Utilities. It may be noted that in the instant case land for all the proposed substations are secured either through purchase on willing-seller willing- buyer basis or already in possession of State Utilities. It may be noted that no land is secured through Involuntary Acquisition and no social issues such as physical displacement; R & R are envisaged in the instant project. Wherever required, consent from ADC/VDC is also obtained. However, due to non-finalization of earlier identified land and technical constraints location of some substations land have been changed from that envisaged in IEARs (for details refer **Appendix-3**). For establishment of all substations, 136.249 acre of land was directly purchased on negotiated rate, 0.73 acre of land was willingly donated by owner and rest was in possession with state utilities. Details of land secured for transmission and distribution substations (220/132/33kV or 33/11kV) including area, number of owners, compensation thereof are provided in **Table-7**.

SI. No	Name of Substation	Area (acres)	Type of Land (Govt./ Pvt.)	No. of Land Owner	Total Cost of Land (Rs Million)	Method of Securing Land/ Remarks, if any
1	220/132 kV Behiating	7.31				
2	132/33 kV GMC	0.83				
3	132/33 kV Silapathar	7.27	AEGCL	N.A.	N.A.	N.A.
4	132/33 kV Paltanbazar	0.63	Existing Land	N.A.	N.A.	N.A.
5	132/33 kV Sarupathar	7.27	Land			
6	220/132 kV Amingaon	8.0				
7	132/33kV Chapakhowa	7.31	Pvt.	2	25.519	Direct Purchase
8	132/33 kV Hazo	6.25	Pvt.	1	28.479	through Willing
9	132/33 kV Tangla	8.26	Pvt.	12	42.600	Buyer Willing
10	132/33 kV Tezpur New	7.27	Pvt.	3	14.080	Seller basis on
11	132/33 kV Teok	7.27	Pvt.	2	52.979	negotiated rate
12	33/11 kV Harsingha	0.74				
13	33/11 kV Hathimurah-2	0.96	APDCL			
14	33/11 kV Mailo	1.9	Land	N.A.	N.A.	N.A.
15	33/11 kV GS Road (GIS	0.41				
16	33/11 kV GMC-2	0.83				

SI. No	Name of Substation	Area (acres)	Type of Land (Govt./ Pvt.)	No. of Land Owner	Total Cost of Land (Rs Million)	Method of Securing Land/ Remarks, if any
17	33/11 kV Tarun Nagar	1.03	Govt.	N.A.	****	
18	33/11 kV Arya College	0.13	Govt.	N.A.	0.969	
19	33/11 kV Chabipool	0.36	Govt.	N.A.	6.600	
20	33/11 kV Romai	0.66			0.024/yr	Land on long term
21	33/11 kV Bogibil	0.66			0.024/yr	lease of 20 years
22	33/11 kV Dibrugarh Electrical SD-3	0.66		N.A.	9.355	
23	33/11 kV Silapathar II	0.66	Pvt.	1	1.018	Direct Purchase
24	33/11 kV Sesa	0.66		1	3.785	on negotiated rate
25	33/11 kV Ramdiya	0.50		2	1.580	C
26	33/11kV D'doma- hazo	0.50		1	2.399	
27	33/11 kV LGM hospital	0.33		1	1.950	
			MANIPU	R		
1	132/33 kV Gamphajol	2.96	Pvt.	1	2.790	Direct Purchase
2	132/33 kV Tamenglong	4.44		1	1.900	on negotiated rate
3	33/11 kV Takyel	0.59	Govt.	N.A.	****	
4	33/11 kV Lamphel	0.37	Govt.	N.A.	****	
5	33/11 kV Top Khongnankhong	1.97	Govt.	N.A.		
6	33/11 kV Porompat	1.97	Govt.	N.A.	0.197	
3	33/11 kV Andro	0.50	Pvt.	1	0.335	
5	33/11 kV Hiyangthang	0.73	Pvt.	1	4.424	
8	33/11kV Kaithelmanbi	0.74	Pvt.	1	0.697	
9	33/11 kV Kwata	0.31	Pvt.	1	1.008	Direct Purchase
10	33/11 kV Leimapokam	0.63	Pvt.	1	0.955	on negotiated rate
12	33/11 kV Thangal	0.612	Pvt.	1	0.522	
13	33/11 kV Sanjenbam	0.62	Pvt.	3	1.029	
14	33/11 kV Tuliaphai	0.494	Pvt.	1	0.465	
15	33/11 kV Pishum (GIS)	0.249	Govt.	N.A.	****	
		Μ	EGHALA	YA		
1	220/132kV Mawngap	10.77	MePTCL Land	N.A.	N.A.	N.A.
2	220/132kV N. Shillong	6.214	Pvt.	2	30.148	Direct Purchase on
3	132/33 kV Mynkre	16.40		1	22.003	negotiated rate
4	132/33 kV Phulbari	12.5		1	32.877	
5	33/11 kV Mynkre	0.49		1	1.133	
6	33/11 kV Rymbai	1.26		1	0.981	
7	33/11 kV Lumshnong	0.36		1	1.248	
8	33/11 kV Latyrke	0.34		1	1.689	
9	33/11 kV Rajb'Bhaitbari	0.66		1	0.244	
10	33/11 kV Chibinang	1.65		1	0.612	

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SI. No	Name of Substation	Area (acres)	Type of Land (Govt./ Pvt.)	No. of Land Owner	Total Cost of Land (Rs Million)	Method of Securing Land/ Remarks, if any
11	33/11 kV Raksambre	0.66	,	1	0.492	
12	33/11 kV Mawpat	0.30		1	5.993	
13	33/11 kV New Shillong	1.0		Comm unity Iand	3.496	
14	33/11 kV Maw'kneng	0.61		1	0.220	
15	33/11 kV Mawkynrew	1.18		1	1.600	
			TRIPUR	4		
1	132/33kV Rabin'nagar	2.5				
2	132/33 kV Gokulnagar	3.5				
3	132/33 kV Belonia	3.0				
4	132/33 kV Bagafa	3.7	TSECL			
5	132/33 kV Sabroom	1.64	Land	N.A.	N.A.	N.A.
6	132/33 kV Mohanpur	4.0				
7	132/33 kV Satchand	2.02				
8	132/33 kV Manu	2.18				
9	132/33 kV Amarpur	3.34	Pvt.	1	5.936	Direct Purchase on negotiated rate
10	33/11 kV Khowai	0.49				
11	33/11 kV Simna	0.59				
12	33/11 kV Barkathal	0.59				
13	33/11 kV Bamutia	0.59				
14	33/11 kV Lembucherra	0.74				
15	33/11kV Champaknagar	0.68				
16	33/11 kV Ranirbazar	0.74				
17	33/11 kV ADC H.Q.	1.18				
18	33/11 kV Chittamara	0.62				
19	33/11 kV Golaghati	0.49				
20	33/11 kV Durganagar	0.40				
21	33/11 kV Maharani	0.89	TSECL	N.A.	N.A.	N.A.
22	33/11 kV Nidaya	0.61	Land	11.7 \.	11.7 (.	11.7 (.
23	33/11 kV Nalchar	0.46				
24	33/11kV Jawhar Nagar	1.97				
25	33/11 kV Chailengta	0.74				
26	33/11 kV Dhumacherra	1.38				
27	33/11 kV 82 Mile	0.74				
28	33/11 kV Tilla Bazar	1.58				
29	33/11 kV Srinagar	1.46				
30	33/11 kV Chechua	0.41				
31	33/11 kV Rupaichari	0.62				
32	33/11 kV Ekinpur	1.03				
33	33/11 kV Gabardi	0.67				

SI. No	Name of Substation	Area (acres)	Type of Land (Govt./ Pvt.)	No. of Land Owner	Total Cost of Land (Rs Million)	Method of Securing Land/ Remarks, if any
34	33/11 kV Barpathari	0.74	,		,	
35	33/11 kV Karbook	0.59				
36	33/11 kV Muhuripur	0.99				
37	33/11 kV Dalak	1.38				
38	33/11 kV Mungiakami	1.15				
39	33/11 kV Durga Chowmohani					
40	33/11 kV Garjee	0.79				
41	33/11 kV Sekerkote	0.70	Govt. (Health		0.315	
42	33/11 kV Taidu	0.73	Pvt.	1		Land willingly donated by owner
43	33/11 kV Manughat	0.80	Pvt.	1	0.657	
			MIZORA	М		
1	132/33 kV Lungsen	3.16				
2	132/33 kV W. Phaileng	3.92	PEDM	N.A.	N.A.	N.A.
3	132/33 kV Marpara	4.34	Land	N.A.	N.A.	N.A.
4	South Bungtlang	0.58				
	i i		IAGALAI	ND		
1	132/33kV Secretariat	3.4	DPN	N.A.	N.A.	N.A.
	Complex Kohima		Land			
2	132/33 kV Longnak	4.7	Pvt.	1	2.700	
3	132/33 kV Longleng	8.1	Pvt.	7	0.458	Direct Purchase
4	132/33 kV Pfutsero	4.94	Pvt.	1	5.812	on negotiated rate
5		44.04				on negotiated rate
	132/33 kV Zunheboto	14.64	Pvt.	6	2.781	
6	33/11 kV Longtho	1.04	Pvt.			
6 7	33/11 kV Longtho 33/11kV Longleng Town	1.04 0.52	Pvt.			
6	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung	1.04	Pvt.			
6 7 8	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House	1.04 0.52 0.15	Pvt.			
6 7	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung	1.04 0.52		6	2.781	
6 7 8 9	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area	1.04 0.52 0.15 0.20	DPN			N.A.
6 7 8	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto	1.04 0.52 0.15		6	2.781	
6 7 8 9 10	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point	1.04 0.52 0.15 0.20 0.76	DPN	6	2.781	
6 7 8 9 10 11	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati	1.04 0.52 0.15 0.20 0.76 0.33	DPN	6	2.781	
6 7 8 9 10 11 12	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Chiephobozou	1.04 0.52 0.15 0.20 0.76 0.33 0.37	DPN	6	2.781	
6 7 8 9 10 11 12 13	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Chiephobozou 33/11kV Tizit	1.04 0.52 0.15 0.20 0.76 0.33 0.37 0.15	DPN Land	6 N.A.	2.781 N.A.	N.A.
6 7 8 9 10 11 12 13 14	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Chiephobozou 33/11kV Tizit 33/11kV Pfutsero	1.04 0.52 0.15 0.20 0.76 0.33 0.37 0.15 0.19	DPN Land Pvt.	6 N.A.	2.781 N.A. 0.757	N.A. Direct Purchase
6 7 8 9 10 11 12 13	33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Chiephobozou 33/11kV Tizit	1.04 0.52 0.15 0.20 0.76 0.33 0.37 0.15	DPN Land	6 N.A.	2.781 N.A.	N.A.

4.1.2. CPTD Preparation and Implementation Status

As per existing law, land for tower/pole and right of way is not acquired and agricultural activities are allowed to continue after construction activity. However, the law³ stipulates that the licensee shall have to pay full compensation to all interested for any damages sustained during the execution of work.

Moreover, land requirements for erecting tower/ poles for transmission/ distribution lines are just minimal. All it requires is to place the foot, four of which warrants an area of 4-6 sq. ft. Thus, the actual impact is restricted to 4 legs of the tower. Further, line alignments are done in such a way so as to avoid settlements and / or structures and hence no relocation of population on account of Transmission Line (TL)/ Distribution Line (DL) is envisaged. Most of the impacts are temporary in nature in terms of loss of standing crops/trees and other damages for which compensation is paid to the affected persons/land owner/ community for all damages including cost of land for tower base and/ or RoW corridor to its land owner without acquiring it. Thus, compensations are made for;

- (i) standing crops;
- (ii) trees, if any;
- (iii) land cost of tower footings and RoW Corridor (if applicable);
- (iv) other assets like well and
- (v) any other damages/ effects.

In order to capture such temporary damages likely to be caused during implementation of projects and payment of compensation thereof, project specific Compensation Plan for Temporary Damages (CPTD) have been prepared and subsequently disclosed after approval by the Bank for implementation. CPTD includes entitlement matrix, detailed procedure along with timeframe for compensation disbursement and responsibility with respect to various process/activities which will be implemented during the project execution. The project wise CPTDs are being prepared matching with completion of detailed survey of TLs/DLs corresponding to scope covered in respective IEARs. The status of CPTD preparation and its disclosure as of now is already presented in **Table-1**.

4.1.3. Compensation for Tree/crop damages:

Following cardinal principles of avoidance, minimization of State- Specific ESPPF and Bank's Safeguard Policies, State Utilities/ POWERGRID has selected and finalized the routes of transmission line with due consideration of the avoidance or minimization of impacts toward temporary damages on crops/ trees/ structures, if any coming in the Right of Way (RoW) during construction. Similarly, the route of all the 33 kV distribution lines are mostly selected /finalized along the existing roads (PWD roads/Village roads etc.) involving minimum habitated areas and also through agricultural and barren lands wherever possible. Further, regular field visits and public consultations helped in developing the measures towards minimizing negative social impacts, if any.

During project implementation also, due to inherent flexibility in phasing construction activity in lean period or rescheduling the construction activity in cropped area for some period to facilitate crop harvesting, temporary impacts associated with Transmission Lines are further minimized to a great extent. However, if it is unavoidable and is likely to affect project schedule, compensation is given at market rate for standing crops in

³ As per the present provision in the Electricity Act, 2003 read with relevant provisions of Indian Telegraph Act, 1885 all the damages without acquisition of subject land accrued to person while placing the tower and line are to be compensated.

consultation with revenue department and affected person based on assessment of actual damages. The process of tree/crop compensation is depicted in **Figure 1**. In the instant project also, all possible measures are taken to avoid damages to crop/trees through taking up the construction activities during lean period or post-harvest season. As per the prevailing norms farming activity is allowed after the construction work is completed. However, compensation for the loss of crops/trees/any structure paid to Affected Persons (APs) for the area of damage to mitigate the impacts probably 3 times i.e. during foundation work, tower erection & stringing as per the prevailing situation. A sample case of compensation process including notice to AP, compensation assessment & payment to affected persons is placed as **Appendix-4** for better understanding. Details of line wise compensation paid for Tree & Crop damages till reporting period is given below in **Table- 8**.

4.1.4 Land Compensation for RoW:

Ministry of Power (MoP), Govt of India issued guidelines for payment of compensation towards damages in regard to Right of Way for transmission lines on October 15, 2015, stipulating payment of 85% of land value for tower base area (between four legs) and compensation towards diminution of land value in the width of Right of Way (RoW) corridor subject to a maximum of 15% of land value. However, these guidelines are subject to adoption by state governments for its implementation in respective states.

Out of six participating states, till date Assam, Meghalaya, Manipur and Mizoram States have already adopted the MoP guidelines. It may be noted that Assam and Manipur have adopted same compensation provisions i.e. land compensation @85% for tower base and 15% towards line corridor vide State Govt. notification dated 10th March 2017 and 28th March 2018 respectively whereas Mizoram Govt. vide its notification dated 01.05.2019 has specified provisions for land compensation @100% for tower base and no compensation for line corridor. Similarly, Govt of Meghalaya vide its notification dated 15.12.20 stipulates compensation land compensation @100% for tower base and @ 15% maximum for corridor area. However, as per provision of said notification tower area shall be measured from edge of one pit to other pit (instead legs of legs) and in case of retaining wall, the measurement to be taken from outer wall. Besides, the land shall be permanently vest with the Government. In the remaining States, who have not adopted the MoP guidelines till date the existing practice of 100% land cost for tower base are being implemented.

The process of land compensation begins with identification of land owners, verification of land records etc. However, actual process starts only after fixation of land rates by the concerned DC/DM. Accordingly, payment of land compensation is made to the respective land owners to the extent of land area coming under tower/corridor as per the norms in addition to normal crop and tree damages. The status of land compensation paid till reporting period is given in **Table-8**.



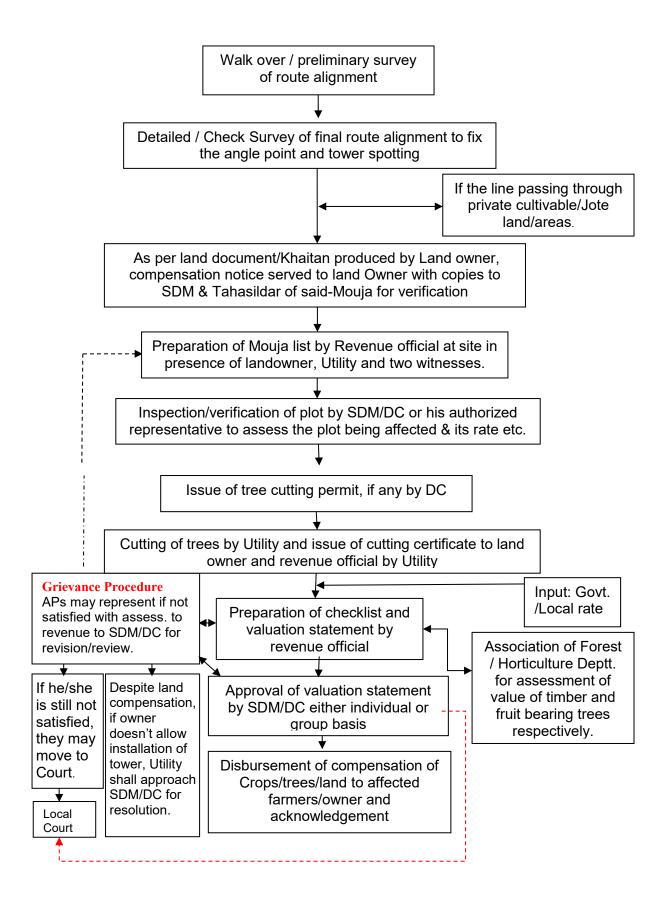


Table - 8:	Status of Land,	Tree & Crop	Compensation
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SI.	Name of the Line				La	and cor	npensa	ation			-	Tree/	Crop C	omper	nsation	No. of Pending cases/non-
No.		Foundation Completed	Total Affected Persons	Compensation already paid to Affected Persons	Compensation for APs under progress	Total Compensation paid for Tower Base	Stringing Completed	Total Affected Persons in RoW Corridor	Compensation already paid to Affected Persons in RoW Corridor	Compensation for APs for RoW Corridor under progress		Total Affected Persons	Compensation already paid to APs	Compensation for APs under progress	Total Compensation paid for Tree & Crop damages	eligible cases with details thereof (e.g. Govt land/title disputes/ any other reasons)
		(No.)	(No.)	(No.)	(No.)	(Rs. Million)	km	(No.)	(No.)	(No.)	(Rs. Million)	(No.)	(No.)	(No.)	(Rs. Million	
Ass	am						•				,				•	
1	220 kV D/c Tinsukia- Behiating	167	130	69	61	1.41	4.059	191		npensati nent/eva		119	97	22	2.62	10 nos. tower location in Govt. land
2	132 kV S/c Dhemaji- Silapathar	106	90	37	53	1.38	10.302	116	und	er progre	ess	Nil	Nil	Nil	Nil	6 nos. tower location in Govt land
3	132 kV S/c Rupai- Chapakhowa	158	120	70	50	0.80	43.976	122	02	120	0.282	140	140	0	11.66	26 nos. tower location in Govt. land & 9 cases pending for title disputes.
4	LILO of Jorhat-Nazira	7	4	2	2	0.15						4	1	3	0.02	03 nos. tower locations located at Teok Substation
5	132 kV Amingaon-Hazo	14	10	Nil	2	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
6	33 kV Tezpur- Parowa											17	17	Nil	0.16	
7	33 kV Hazo-Domdoma	As p	er MoP	guidelir	nes land	•		s not ap	plicable f	or below	66kV	23	23	Nil	0.34	
8	33 kV Hazo-Sesa						line					15	15	Nil	0.06	
9	33 kV Hazo- Ramdia Sub Total Assam	452	354	178	168	3.74	58.34	400	02	120	0.282	12 330	12 305	Nil 25	0.06 14.92	
Me	ghalaya	432	334	170	100	3.14	50.54	429	02	120	0.202	330	305	25	14.32	
1	220kVD/c Byrnihat-Mawngap- New Shillong	293	389 *	143*	246*	56.35	8.14	Мо	Govt. Meg P guidelin	es recently	y on	29	29	Nil	2.64	
2	LILO132kV MLHEP- Khliehriat	88	87 *	86 *	1*	8.72	25.83	15.12.20. Hence, approval for reappropriation of fund being sought to provide compensation of corridor				2	2	Nil	0.29	
3	132 kV D/c Phulbari - Ampati	174	192*	191*	1*	15.78	49.89	area @	ide compe 15% for 2 awngap- N	Byrnihat-	60	43	17	0.67		
	Sub Total Meghalaya	555									91	74	17	3.60		

SI.	Name of the Line		Land compensation									Tree/	Crop C	comper	nsation	No. of Pending cases/non-
No.		Foundation Completed	Total Affected Persons	Compensation already paid to Affected Persons	Compensation for APs under progress	Total Compensation paid for Tower Base	Stringing Completed	Total Affected Persons in RoW Corridor	Compensation already paid to Affected Persons in RoW Corridor	Compensation for APs for RoW Corridor under progress	Total Compensation paid for RoW Corridor	Total Affected Persons	Compensation already paid to APs	Compensation for APs under progress	Total Compensation paid for Tree & Crop damages	eligible cases with details thereof (e.g. Govt land/title disputes/ any other reasons)
Ма	nipur					1	-					-				r
1	132 kV D/c Imphal-Nin'khong	116	144	129	15	6.991	32.525	30	7	10	1.45	Nil	Nil	Nil	Nil	
2.	132 kV S/c Rengpang- Tamenglong	40	Nil	Nil	Nil	1.013	-		ringing no		yet	30	0	24	0	Compensation issue related to dwellers in forest area without any ownership documents. Matter taken with Chief Secretary, Manipur
	Sub Total Manipur	156	144	129	15	8.004	32.525	30	7	10	1.45	30	0	24	0	
Na	galand															
1	132 kV D/c Kohima-New Sec. Complex	45	45	32	13	3.75						45	29	16	0.176	
2	LILO 132 kV D/c Kohima- Meluri at Pfutsero	10	11	11	0	0.991						11	11	0	0.94	
3	220 kV S/c New Kohima- Wokha-Mokochung	183	183	145	38	34.00			le as Stat ed MoP G			183	82	101	0.676	
4	LILO132kV S/c Mokochung - Mariani at Longnak	5	6	6	Nil	2.45						5	5	0	0.007	
5	LILO 132kVS/c Kohima- Wokha at N Kohima	31	31	25	6	2.53						31	25	6	3.613	
6	132kV S/C (on D/C Tower) Wokha- Zunheboto – Mokokchung	80	80	67	13	14.06						Nil	Nil	Nil	Nil	
7	132kV S/C (on D/C Tower) Tuensang - Longleng line	60	60	48	12	7.19						Nil	Nil	Nil	Nil	
	Sub Total Nagaland	414	416	334	82	64.97						275	152	123	5.41	

SI.	Name of the Line				L	and co	npensa	ation				Tree/	Crop C	Comper	nsation	No. of Pending cases/non-
No.		Foundation Completed	Total Affected Persons	Compensation already paid to Affected Persons	Compensation for APs under progress	Total Compensation paid for Tower Base	Stringing Completed	Total Affected Persons in RoW Corridor	Compensation already paid to Affected Persons in RoW Corridor	Compensation for APs for RoW Corridor under progress	Total Compensation paid for RoW Corridor	Total Affected Persons	Compensation already paid to APs	Compensation for APs under progress	Total Compensation paid for Tree & Crop damages	eligible cases with details thereof (e.g. Govt land/title disputes/ any other reasons)
Tri	pura											-	-			
1	LILO132kV Ambassa- PKBari	5	5	0	5	Nil	0.5					6	6	Nil	1.829	
2	132 kV D/c Bagafa-Belonia	17	3	0	3	Nil	Nil					46	30	16	0.220	
3	132 kV S/c Bagafa-Satchand	19	12	5	7	0.069				.	a (20	11	9	1.402	
4	132kV Sabroom- Satchand at Sabroom	7	7	7	Nil	0.046	1.31		Applicable las not ad	opted Mo		22	20	2	2.812	
5	132kV Sabroom-Satchand at Satchand	10	5	3	2	0.05	2.5		Guid	elines		52	5	47	0.255	
6	132 kV D/c Udaipur-Bagafa	101	81	77	4	0.416	Nil					135	100	35	3.452	
7	132 kV D/c R'nagar-Rokhia	55	29	18	11	0.358						12	3	9	0.146	2 cases pending for title disputes.
8	LILO 132kV S/c Sj'nagar- Rokhia at G'nagar	13	15	13	2	2.385	2.85 0					39	32	7	10.48	
9	LILO132kV 79Tilla-Dhalabil	6	5	5	0	1.085	1.121					6	6	Nil	1.731	
10	132 kV D/c Udaipur-Amarpur	61	22	22	Nil	Nil	8.5					69	55	14	1.663	
11	132 kV Manu-Manu	14	10	7	3	0.592	2.07 5					32	32	Nil	0.892	
12	132 kV D/c Belonia-Sabroom	25	20	2	18	0.127	Nil					25	8	17	0.481	
13	132 kV D/c R'nagar-Belonia	2	Nil	Nil	Nil	Nil	Nil					1	Nil	Nil	0.017	
14	132 kV D/c K'shahar- Dharmanagar	33	21	Nil	21	Nil	Nil					21	18	3	0.568	3 cases pending for title disputes.
	Sub Total Tripura	368	235	159	76	5.128	18.857					486	326	159	25.808	
Miz	zoram															
1	132kV S/c West Phaileng- Marpara	15	3	Nil	Nil	Nil			ition for lir			63	40	23	2.26	All tower locations fall under Govt. land
2	132kV S/c Lungsen- Chawngte	37	Nil	Nil	Nil	Nil			ower base ification C			47	Nil	47	Nil	Notices served for crop/tree compensation based on

SI.	Name of the Line				Land compensation Tree/Crop Compensation						nsation	No. of Pending cases/non-				
No.		Foundation Completed	Total Affected Persons	Compensation already paid to Affected Persons	Compensation for APs under progress	Total Compensation paid for Tower Base	Stringing Completed	Total Affected Persons in RoW Corridor	Compensation already paid to Affected Persons in RoW Corridor	Compensation for APs for RoW Corridor under progress	Total Compensation paid for RoW Corridor	Total Affected Persons	Compensation already paid to APs	Compensation for APs under progress	Total Compensation paid for Tree & Crop damages	eligible cases with details thereof (e.g. Govt land/title disputes/ any other reasons)
3	132kVS/c Chawngte-South Bungtlang	1	Nil	Nil	Nil	Nil						6	Nil	6	Nil	village council passes submitted. Majority of tower
4	132kV S/C Lunglei-Lungsen interconnection TL	5	3	Nil	3	Nil						5	Nil	5	Nil	locations are not having revenue/periodic patta documents and are not eligible for land compensation.
	Sub Total Mizoram	58	6	0	3	0	0	-	-	-	-	121	40	81	2.26	
	Grand Total	2003	1823	1220	592	162.692	193.58	459	9	130	1.732	1333	897	429	51.998	

*Data provided in terms of no. of locations instead of nos. of affected persons/owners as most of the land belongs to community land controlled by village council and compensation is paid directly to Village council/Headman account.

4.1.5 Grievance Redressal Mechanism (GRM)

Grievance Redress Mechanism (GRM) is an important mechanism for addressing/ resolving the concerns and grievances in a transparent and swift manner. Moreover, addressing grievances within stipulated timeframe has also been included as one of the important result indicators agreed under subject loan. Accordingly, Grievance Redress Committees (GRC) have been constituted both at the project/scheme level and at Corporate/HQ level for all Six participating States/Utilities. The site/project level GRCs constituted include members from State Utilities, POWERGRID, Local Administration, Village Panchayat Members, Affected Persons representative and reputed persons from the society and representative from the autonomous district council in case of tribal districts selected/decided on nomination basis under the chairmanship of project head. This GRC is aimed to provide a trusted way to voice and resolve environment & social concerns of the project, and to address the concerns of the affected person/community in a time bound manner without impacting project implementation.

The Corporate/HQ level GRC have been constituted and notified by all States and are headed by Director Projects/Technical of Utilities including one representative from corporate Environment Social Management Cell conversant with the environment & social issues.

Apart from above, grievance redressal is in built in crop/tree compensation process where affected persons are given a chance to place their grievances after issuance of notice by revenue officials on the basis of assessment of actual damages. Grievances received towards compensation are generally addressed in open forum and in the presence of many witnesses. Process of spot verification and random checking by the district collector/ its authorized representative also provides forum for raising the grievance towards any irregularity/complain. Moreover, State Utility & POWERGRID officials also address to the complaints of affected farmers and the same are forwarded to revenue official for doing the needful, if required

It may also be noted that concerns of public are addressed regularly through public consultation process which started from project planning to construction and will be continued in operation and maintenance also. Besides, many concerns/grievances from affected persons/public both of verbal and written nature have been recorded by Site Offices which are also regularly tracked for early resolution. However, it has been observed that most of them were minor in nature and were resolved instantly and amicably by Site Officials after discussion & deliberation with affected person/ in consultation of revenue/district officials. Details of written & verbal complaints including court cases recorded till reporting period is presented below in **Table-9**.

	Table - 3. Details of Onevances/Complaints												
S N	Subproject		complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint							
Α.	Court Cases												
	No Court Ca	ase has be	en registered til	I date agains	t any subprojects u	nder NERPSIP							
Β.	Written Complai	nts											
1	LILO 132kV Rokhia-Suraj- maninagar at Gokulnagar (Tripura)	AP-13 & 14	Villagers of Gokulnagar	05.06.18	Route diversion at location AP-13 & 14,	Resolved on 03.07.18. Modification in route alignment avoiding							

Table - 9: Details of Grievances/Complaints

S N	Name of the Subproject /State	Loc. No/ Village	Name of complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint
					infringing their land intended to be used for construction of houses by marginalized people	such land has been achieved after due diligence to the satisfaction of complainants.
2	220kV New Kohima - Mokokchung via	AP-68 & 70	Mr. Shwehilo Tep	20.05.20	Land compensation for approach	Matter resolved through discussion with Contractor and
3	Wokha (Nagaland)	AP-53, 54 & 83	Mr. Sotilo Tep Mr. Daniel Tep Mr. Hillo Khing	19.06.20	road	Land owners on 20.07.20 & 28.10.20 respectively.
4		AP-05 & 06	Theunuo Clan (community)	16.03.21	Demanding higher compensation	Negotiation under progress.
5	132kV Marpara substation (Mizoram)	Substa tion Premises	Security Persons	18.06.20	Delay of Salary/ Payment	Resolved on 22.06.20. Contracting agency took necessary action and solved the issue.
6	132/33 kV Hazo substation (Assam)	Substatio n premises	Hazo	25.09.20	Regarding boundary wall of the substation which was claimed to be constructed on the complainant's property	Resolved on 6.10.20 through discussion with the land owners along with APDCL team.
7	132 kV D/c Kohima- New Sec. Complex (Nagaland)	AP-02	Theunuo Clan (community)	16.03.21	Demanding Higher compensation	Negotiation under progress.
8	LILO of 132kV Kohima to Wokha (Nagaland)	AP-35	Theunuo Clan (community)	16.03.21		
9	132 kV DĆ Imphal (PG)- Ningthaukhong (Manipur)	Loc- 11/0 & Loc- 12/0	Thangtek Youth Club.	20.01.21	Shifting of football playground to different location.	In consultation with Youth Club and Local administration suitable land identified for shifting the playground. Approval for Rs 16.19 lakhs being obtained from competent authority to develop playground and augment facilities.

С.	Verbal Complai	nts				
S N	Name of the Subproject /State		Name of complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint
1.	132kV S/c West Phaileng- Marpara (Mizoram)	AP-168	Sh. Bosisto Moni	13.12.18	Compensation for crop/other damages during construction	Resolved on 14.12.18. Compensation framework explained to complainant to his satisfaction.
2	33/11 kV Botsa (Ext.) substation (Nagaland)	Village Botsa	Dr. Ropfu Dolie (PHC)	01.03.18	Road Block due to construction materials	Resolved on 01.03.18. Within 3 hours to complainant satisfaction.
3.	33/11 kV Sechu-Zubza substation (Nagaland)	Village Zubza	Nearest Church authorities	04.06.18	Power cut due to substation construction work	Resolved through discussion on 04.06.18.
4.	33/11 kV Chiephobozou substation (Nagaland)	Village Chiephob ozou	Visakuolie Kiewhuo (Villager)	06.06.18	Demand for road	Though matter is not under purview of POWERGRID, discussion is being held to find an amicable solution.
5.	33/11 kV Padampukhri substation (Nagaland)	Village Padampu khri	Nearby Residents	18.07.18	Unpleasant sound due to construction	Resolved on 29.07.18. Noise reduction measures implemented & no further complaint received.
6.	33/11 kV Botsa (Ext.) (Nagaland)	Village Botsa	Villagers	28.12.18	Fencing of the substation boundary	Resolved. Fencing work completed in July'19.
7.	132/33 kV Lunglei (Ext.) substation (Mizoram)	Khawiva	Officials of Khawiva Power Project	06.03.19	Storage of soli near to Nala passes beside substation	Resolved on 13.03.19.SDO PMD- I, Khawiva suggested alternative storage/ disposal site for excavated soil.
8	132 kV D/c Kohima- New Sec. Complex	Village Zhadima	Neizolie Loueii (land owner)	13.01.19	Compensation related issue (for trees & land)	Issue resolved on 18.01.19 through meeting/
9	Line (Nagaland)		Concerned land owners of Loc.No.01- 28 of Zhadima village			discussion. Compensation framework explained to complainant to their satisfaction.
10			Land Owners at AP- 19-20	08.11.19	Compensation towards Approach road	Matter resolved on 11.11.19 through discussion with Contractor and Land owners.

	Subproject		complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint
11	220 kV D/C Killing- Mawphlang- New Shillong Transmission line (Meghalaya)	AP 1-3/ Mawphla ng	Land Owners	10.08.19	Realignment of line route	Resolved . Meeting held under Joint Secretary Power on 4.10.19. Minor realignment along with making 3 nos. tower multi-circuit has been proposed.
12		Nongthy mai (15- Mile)	Land Owners	18.02.20	Land Owner disagreed to give NOC for the construction works due to low Land/Tree & Crops Compensation rates.	the concerned forest, horticulture deptt.
13		Umsoh pai, Tasku, Umshohp hria	Land Owners	20.02.21		Planters/Owners disagreed with the low rates of Rubber Plantations received from Range Office, Marngar on 08.04.2021. Now, matter taken up with DC, Ri-Bhoi Office.
14	132kV Kohima – Wokha (Nagaland)	Phezha AP-01	Medosao Semou	21.10.19	RoW issue (demand for higher compensation)	Resolved amicably through discussion on 29.04.21 in coordination with consultation with local authority.
15	220kV New Kohima- Mokokchung via Wokha (Nagaland)	AP-113	Village council of Ehunnu	08.11.19	Compensation towards Approach road	Matter resolved on 22.12.19 through discussion with Contractor and Land owners.
16	220kV New Kohima - Mokokchung via Wokha line (Nagaland)	AP-116	School authorities of Phugoboto	25.03.20	Construction of tower nearby School area	Resolved on 22.04.20. Modification in route alignment avoiding such land has been achieved after due diligence to the satisfaction of complainants.
17	132kV D/c West Phaileng- Marpara (Mizoram)	Pukzing Vengthar	Local Task Force	06.06.20	Not allowed to enter the village as part Covid-19 preventive measures by the task force	Resolved on 08.06.20. Matter informed to DC, Mamit & SDO/West Phaileng and relevant permission obtained.

10	22 k)/ line	Lung		00.06.20	Not allowed to	Peoplyad on
18	33 kV line Lungsen– Lungsen (Mizoram)	Lung sen	Local Task Force	09.06.20	Not allowed to enter Outside Labourers in the village as part Covid-19 preventive	Resolved on 10.06.20. Matter discussed with local VCP, Lungsen relevant permission obtained
					measures	
19	LILO of 132kV Kohima- Wokha (Nagaland)	AP-03	Khro clan community	14.11.20	Objection due to many existing power lines in that particular area.	Discussion/ negotiation under progress in consultation with local authority.
20	132kV S/c West Phaileng- Marpara (Mizoram)	AP-139	Sh. Lalrintluanga	28.10.20	Land owner demanding to shift tower location from his land.	Issue resolved on 08.12.20. Joint site inspection carried out on 03.12.20, convinced the owner and notice issued.
21	132kV S/c West Phaileng- Marpara (Mizoram)	AP-138	YMA president, Pukzing village.	16.02.21		Matter reported to DC, Mamit on 16.02.21 who has directed SDO (civil) to hear both parties to resolve the issue. SDO (civil) has conducted a meeting on 09.03.21 and asked POWERGRID to explore the feasibility for shifting of the tower location. After doing survey report submitted on 27.04.21 indicating that alternate options are not feasible. SDO has communicated the same to YMA. Till now, No further communication received from YMA.

4.1.6 Details of Stakeholder Consultation

Public consultation/ information dissemination is a continuous process starting with the project conception and continues during project implementation and even during O&M stage. As stated in ESPPF, public consultation using different technique like Public Meeting, Small Group Meeting, informal Meeting are being carried out during different activities of project cycle. In the instant project, many consultations with stakeholders and utility were organized during development of State- Specific ESPPFs, environment assessment & preparation of IEAR and land securing process. Both formal and informal consultations meeting were organized which is also integral part of IEARs. During survey also, Utilities & POWERGRID site officials meet people and inform them about the routing of transmission and distribution lines. During such consultation the public are informed about the project in general and in particular about the following:

- Complete project plan (i.e. its route and terminating point and substations, if any, in between);
- Design standards in relation to approved international standards;
- Health impacts in relation to EMF;
- Measures taken to avoid public utilities such as school, hospitals, etc.;
- Other impacts associated with transmission & distribution lines and State Utility's approach to minimizing and solving them;
- Trees and crop compensation process.

During the construction every individual, on whose land tower is erected and people affected by RoW, are being consulted. Further, in case of Autonomous District Council areas consultations are being held with the respective village councils for identification of the landowner and obtaining their consent for the RoW (refer **Plate-8**). Besides, as per agreed framework, gender issues have also been addressed to the extent possible during such consultation process. The details of projects and its importance were explained to the villagers by the officials of State Utility and POWERGRID. Most of the queries/concerns raised by participants were related land/tree/crop compensation process, extent of damages during construction, compensation disbursement timeline & benefits due to implementation of the project in their area. The initiative was appreciated by the villagers and they assured to extend their cooperation for construction of the said subprojects. Sample photographs depicting safeguard consultation at different stages of project cycle is placed as **Plate-6**. The state-wise details of public participation including percentage of females participated in the safeguard consultation meetings till June '21 is presented in **Table-10**.

Consultation	Pers	son Att	ended	State-wise Details		
Period	Total Male Female		Female			
Till June 16	1548	1160	388	Assam: 169 (22 female), Manipur: 273 (86 female), Tripura: 461(178 female), Meghalaya: 259 (28 female), Nagaland: 182(27 female) & Mizoram: 204 (47 female)		
July- Dec' 16	390	299	91	Assam: 88 (12 female), Manipur: 68 (30 female), Tripura: 80 (25 female), Meghalaya: 50 (5 female), Nagaland: 52 (15 female) & Mizoram: 52 (4 female)		
Jan'-Jun'17	203	143	60	Assam: 88(37 female), Manipur: 59 (8 female), Meghalaya: 7 (4 female) & Mizoram: 49 (11 female)		
July- Dec' 17	376	275	101	Assam: 281 (61 female), Tripura: 77 (38 female) & Nagaland: 18 (2 female)		
Jan-June' 18	226	154	72	Manipur: 152 (63 female), Nagaland: 74 (9 female)		
July- Dec' 18	272	244	28	Tripura: 50 (11 female) Manipur: 27 (12 female), Nagaland: 195 (5 female)		
Jan- June'19	256	227	29	Manipur:58(14 female), Nagaland: 98 (1 female), Tripura 60 (10 female), Meghalaya 40 (4 female)		
July- Dec.'19	335	296	39	Tripura: 27 (09 female), Meghalaya 44 (6 female), Nagaland: 198 (19 female), Mizoram: 66 (5 female)		
Jan-Jun.'20	175	127	48	Assam: 25 (6 female), Tripura: 30(9 female), Meghalaya: 44 (13 female), Nagaland: 76 (20 female)		

 Table -10: Details of Public Consultation & Gender Participation

July- Dec.'20	130	95	35	Meghalaya: 44 (12 female), Nagaland: 86 (23 female)
Jan-Jun.'21	212	158	54	Assam: 25 (6 female), Meghalaya: 50 (14 female), Tripura: 31 (9 female), Nagaland: 106 (25 female)
Total	4151	3206	945 = 22.761%	

Plate 6: Stakeholders Consultation during reporting period.



Meeting with Villagers at 132/33 kV Ningthaukhong SS (Manipur) Site visit by B.D.O., Mawphlang and meeting with land owner under New Shillong section for 220 kV D/c Byrnihat-Mawngap-New Shillong TL (Meghalaya)



Meeting with land owners and POWERGRID Officials at BDO, Unshning office under Mawngap section for 220 kV D/c Byrnihat-Mawngap-New Shillong TL (Meghalaya)



Meeting with land owners and village Headmen under Khliehriat section for LILO of 132 kV MLHEP-Khliehriat TL (Meghalaya)

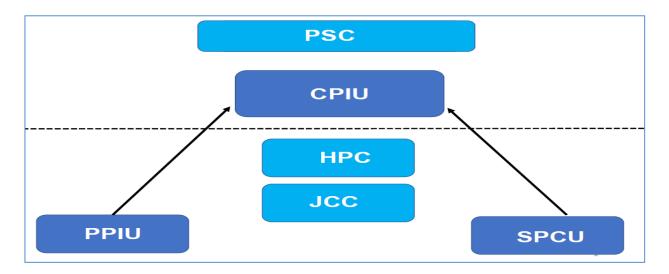




Meeting with Aps 132kv Tuensang to Longleng Line Yimchong village- AP 78,77,76 on 09.03.2021 (Nagaland) Meeting with Techno power 33/11kV Longleng SS on 10.02.2021 (Nagaland)

SECTION-5: ANY OTHER ISSUES (MANAGEMENT & MONITORING

Environmental monitoring is a continuous process throughout the Project life cycle starting from site selection to construction and maintenance state. As Implementing Agency (IA) POWERGRID endeavors to implement the project in close coordination with the respective state power utilities and departments. POWERGRID has been implementing the project based on the Implementation/Participation agreements that were signed separately between POWERGRID and the Power utilities. However, the ownership of the assets shall be with respective State government or State Utilities, which upon progressive commissioning shall be handed over to them for taking care of Operation and Maintenance of assets. The arrangement for monitoring and reviewing of project from the perspective of environment and social management forms part of overall arrangements for project management and implementation environment. Following implementation arrangement has been proposed at different levels for smooth implementation of this project; Flow chart showing institutional arrangement for ESPP implementation & monitoring is placed below.



The Field In-Charge reviews the progress on daily basis and periodic review by higher management including review by Heads of SPCU and CPIU undertaken wherein apart from construction issues the environmental aspects of the projects are discussed and remedial measures taken wherever required. Besides, Periodic Contractor's Review Meeting (CRM) are being held by officials of PIU with Contractors at field offices, State Head Quarters (PIU location) and with CPIU at Guwahati for better co-ordination and resolution any pending issues. The World Bank mission team also visits various sites every six months to review the progress status including ground level implementation of safeguard measures. Any observation/agreed action plan suggested by the Bank in the Aide Memoire is religiously complied in time bound manner. Additionally, review meeting among MoP, GoI, The Bank, State Governments., Utility and IA being held periodically to maintain oversight at the top level and also to debottleneck issues that require intervention at GoI/ State Government level. Due to such strong institutional support structure coupled with monitoring mechanism in place, no major non-compliance was observed/reported during the implementation of projects till date.

SECTION-6: CONCLUSION

As it is vivid from the preceding sections that though the project has been classified as Category "A" in view of rich bio-diversity of North Eastern states of the country, through concerted efforts right from project planning stage itself major and significant environmental impacts have been avoided. Through careful route selection Forest involvement in the project has been limited to 426.688 ha or approx. 153.06 km, (which is just 4.42% of total line length of 3,460km of proposed TL/DL), including 105.32 Ha of protected area i.e. Trishna Wildlife Sanctuary & Buffer zone of Dampa Tiger Reserve. Moreover, with the condition of raising the compensatory afforestation on double the area and measures like extended tower to reduce tree felling will further mitigate the likely loss of vegetation. Similarly, with the implementation of measures suggested in Biodiversity Impact Assessment Study for the Wildlife Area involved, the impacts on Dampa Wildlife Sanctuary will be negligible. However, some environmental impacts are anticipated, mostly during construction period which are being mitigated successfully by implementing the EMP and site-specific measures as discussed in the previous sections. POWERGRID approach of project implementation involving selection of optimum route before design stage, regular consultation with local population, obtaining all applicable regulatory clearances/ permissions, proper implementation of EMP and monitoring mechanism throughout project life cycle supported by strong institutional arrangement has considerably nullified the adverse environmental impacts arising out of project activities.

Similarly, it is worth mentioning that all efforts have been made to minimize the social impacts associated with the project. The endeavor to minimize the social impacts started right from the selection of land for the proposed substations. Out of total 254.529 acres of land required for the proposed 129 substations, 120.619 acres of land is encroachment free Government land having no Project Affected persons (PAPs) and was handover to POWERGRID by State Utilities without creating any adverse social issues. The balance 133.91 acres of private land required for 44 nos. of substations was secured either through donation or was purchased through willing buyer- willing seller basis on negotiated rate without invoking land acquisition act, thus, there are no Project Affected Persons even for this private land. However, total 69 persons willingly sell their land measuring 133.91 acres of private land without any undue pressure. Further, steps like constitution of a well-defined Grievance Redress Mechanism (GRM), regular consultation with local population, members of ADC/VDC (wherever applicable) and obtaining the prior consent of Affected Persons before starting the work not only ensured smooth execution of the project but also greatly reduced social risks associated with the project and improved the image of the organization.

In view of aforesaid, it may be noted that all possible measures have already been taken not only towards mitigation of adverse environmental and social impacts leftover after exhausting the options of avoidance and minimization but also to safeguard the interest of PAPs. Moreover, remaining State governments are also persuaded for enhancing the compensation as per MoP guidelines on RoW compensation. Besides, direct or indirect benefits of the subprojects like the employment opportunity, improved & uninterrupted power supply, improvement in infrastructure facilities, improved commercial/economic activities will not only ensure the overall development of the project area but will also outweigh any leftover negative impacts (though unlikely) of the project.

ENCLOSURES

Appendix -1: Compliance of Environment Management Plan (EMP)

activity/stage construction	impact	measures	be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
Location of overhead line towers/ poles/ underground distribution lines & alignment & design	Exposure to safety related risks	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of supervision at sites.	Tower location and overhead /underground alignment selection with respect to nearest dwellings		Agreement)	Part of overhead lines tower/ poles/ laying of underground cable sitting survey and detailed alignment survey and design	Complied/Being Complied. Route alignment criterion is part of survey contract wherein all statutory Electrical clearance as stipulated under CEA's regulations, 2010 (Measures related to safety & electric supply) is considered/ensured.
Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	PCBs not used in substation transformers or other project facilities or equipment.	Transformer design	Exclusion of PCBs in transformers stated in tender specification - once	IA	Part of tender specifications for the equipment	Complied. As per technical specification of transformer, PCB is not used or non-detectable level (i.e. less than 2mg/kg) as per IEC 61619 or ASTM D4059
		Processes, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if	Process, equipment and system design	Exclusion of CFCs stated in tender specification – once	IA	Part of tender specifications for the equipment	Complied. CFC free equipments are being procured.
		processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the Government		Phase out schedule to be prepared in case still in use – once		Part of equipment and process design	Not Applicable
Transmission /Distribution line design	Exposure to electro- magnetic interference	Line design to comply with the limits of electromagnetic interference from overhead power lines	Electromagne tic field strength for proposed line design	Line design compliance with relevant standards – once	IA	Part of design parameters	Complied. Designed as per guidelines of ICNIRP and ACGIH and checked by CPRI & M/s PTI, USA
	poles/ underground distribution lines & alignment & design Equipment specifications and design parameters	poles/ underground distribution lines & alignment & designrisksEquipment specifications and design parametersRelease of chemicals and gases in receptors (air, water, land)Transmission line designExposure to electro- magnetic interference	poles/ underground distribution lines & alignment & designrisksaccordance with permitted level of power frequency and the regulation of supervision at sites.Equipment specifications and design parametersRelease of chemicals and gases in receptors (air, water, land)PCBs not used in substation transformers or other project facilities or equipment.Processes, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the GovernmentTransmission /Distribution line designExposure to magnetic interferenceLine design to comply with the limits of electro- magnetic interference from overhead power lines	poles/ underground distribution lines & alignment & designrisksaccordance with permitted level of power frequency and the regulation of supervision at sites./underground alignment selection with respect to nearest dwellingsEquipment specifications and design parametersRelease of in receptors (air, water, land)PCBs not used in substation transformers or other project facilities or equipment.Transformer designProcesses, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the GovernmentProcesse, equipment and systems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the GovernmentElectromagnetic in electro- magnetic interference from overhead power linesElectromagnetic tic field strength for proposed line design	poles/ underground distribution lines & alignment & designrisksaccordance with permitted level of power frequency and the regulation of supervision at sites./underground alignment selection with respect to nearest dwellingshouses – onceEquipment specifications and design parametersRelease of chemicals and gases in receptors (air, water, land)PCBs not used in substation transformers or other project facilities or equipment.Transformer designExclusion of PCBs in transformers stated in tender specification - 	poles/ underground distribution lines & alignment & designrisksaccordance with permitted level of power frequency and the regulation of supervision at sites./underground alignment selection with respect to nearest dwellingshouses – once (Sec-IÍI. 3 6, 3.8 & 4.1 of Contract Agreement)Equipment specification and design parametersRelease of in receptors (air, water, land)PCBs not used in substation transformers or other project facilities or equipment.Transformer designExclusion of PCBs in transformers stated in tender onceIAProcesses, equipment and ystems not to use chlorofluorocarbons (CFCs), including halon, and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the GovernmentProcess, equipment and system of the GovernmentElectromagne tic field strength for proposed line designLine designIATransmission line designExposure to electro- interferenceLine design to comply with the limits of electro- interference from overhead power linesElectromagne tic field strength for proposed line designLine designIA	poles/ underground distribution lines & alignment & designrisksaccordance with permitted level of power frequency and the regulation of supervision at sites./underground alignment selection with respect to nearesthouses - once(Sec-I/I. 3, 6, 3.8) & 4.1 of Contract Agreement)underground cable sitting survey and detailed alignment survey and designEquipment gequipment and design parametersRelease of chemicals and gases in receptors (air, water, land)PCBs not used in substation transformers or other project facilities or equipment.PCBs not used in substation transformers or other equipment.Exclusion of PCBs in transformers stated in tender specification - onceIA Part of tender specification - onceProcesses, equipment and systems not to use should be phased out and their use, if any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the GovernmentProcess, equipment and system solud be phased out and to be disposed of in a manner consistent with the limits of electro- magnetic in tenference interferenceElectromagnetic strength for proposed line strength for orceLine designIA Part of design parametersTransmission /Distribution line designExposure to electro- magnetic interferenceElectromagnetic strength for overhead power linesLine designLine designIA parametersTransmission /Distribution line designExposure to electro- magnetic electro- m

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
4	Substation location and design	Exposure to noise	Design of plant enclosures to comply with noise regulations.	Expected noise emissions based on substation design	Compliance with regulations - once	IA	Part of detailed siting survey and design	Complied. Transformers with maximum noise emitting level of 75 dB and DG set with proper enclosures is specified in tender specification/ design criteria
		Social inequities	Careful selection of site to avoid encroachment of socially, culturally and archaeological sensitive areas (i. g. sacred groves, graveyard, religious worship place, monuments etc.)	Selection of substation location (distance to sensitive area).	Consultation with local authorities/ autonomous councils -once		Part of detailed siting survey and design	Complied/Being Complied. Part of substation site finalization/route alignment criteria
5	Location of overhead line towers/poles/ laying of underground distribution line & alignment and design	Impact on water bodies	Avoidance of such water bodies to the extent possible. Avoidance of placement of tower inside water bodies to the extent of possible	Tower/pole location and overhead/ underground line alignment selection (distance to water bodies)	Consultation with local authorities– once	IA/ Survey Agency (Sec-II. 2.2 i of Contract agreement)	Part of tower/pole sitting survey and detailed underground /overhead line alignment survey and design	All due care taken during survey to avoid placing of tower/pole on water bodies. However, in spite of best efforts, placing of some towers (approx. 11 nos.) on rivers couldn't be avoided in case of 132kV Rupai- Chapakhowa and Rangia-Amingaon line due to locational constraints/ wide river crossing span. However, a site-specific drilling waste management plan (already shared with Bank in Nov, 2019) has been in place to avoid/ minimize possible impact on water body.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
		Social inequities	Careful route selection to avoid existing settlements and sensitive locations	Tower/pole location and overhead/ underground line alignment selection (distance to nearest dwellings or social institutions)	Consultation with local authorities/ autonomous councils and land owners – once	IA/ Survey Agency (Sec-II. 2.2 i of Contract agreement)	Part of detailed tower/pole sitting and overhead/ underground alignment survey and design	All socially sensitive areas including habitated areas avoided for TLs (refer Plate – 7). However, distribution lines due to their functional mandate are bound to pass through habited areas. So far approximately 80km of UG work has been completed in Guwahati city area without any major disturbances to local inhabitants/ shop- keepers/ any other dwellers in proximity to the project site. Apart from scheduling of construction work, site specific traffic management plan like proper barricading around the pit, flag man to the placed at both ends and HDD machine, traffic diversion sign boards, night reflector placed during night time etc have been undertaken to avoid any incident/ hindrance to the movement of traffic. Further, necessary approval from PWD, Railway, traffic police including consent for disposal of mud etc is obtained before start of drilling activities A schematic site-specific traffic management & approvals from PWD, Railway etc. is placed at Plate-11 .

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
			Minimise impact on agricultural land	Tower location and overhead/ underground line alignment selection (distance to agricultural land)				Though major sections of proposed lines are routed through agricultural field in order to avoid impact on environmentally/socially sensitive areas, every efforts including consultation with local authorities/ autonomous councils and land owners (refer Plate – 8) are being undertaken to minimize impacts on agricultural land/produce to the extent
			Careful selection of site and route alignment to avoid encroachment of socially, culturally and archaeological sensitive areas (i. g. sacred groves, graveyard, religious worship place, monuments etc.)	Tower/pole location and overhead/ underground line alignment selection (distance to sensitive area)	Consultation with local authorities/ autonomous councils -once			possible. As explained in the preceding section, all such areas avoided during survey stage itself following the cardinal principle of ESPPF.
6	Involuntary acquisition or permanent land acquisition for substation.	Social inequities	Compensation and R&R measures as per provision of RFCTLARRA,2013 ⁴	Compensation and monetary R&R measures implementation before possession.		State Govt.	Prior to award/start of substation construction.	No involuntary acquisition of land involved in instant case. Please refer Table-7 for details securing of substations land.

 ⁴ In the instant subproject no fresh land acquisition (permanent) is involved hence this clause shall not be applicable.
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Cla. No.	Project activity/stage	Potential	Proposed mitigation	Parameter to be monitored	Measurement & frequency		Implementation schedule	Compliance Status
7	protected precious area/ ecologic precious values/ ecological damage area precious	impact Loss of precious ecological values/ damage to precious species	measuresAvoid siting into such areas by careful site and alignment selection (National Parks, Wildlife Sanctuary, Biosphere Reserves/ Biodiversity Hotspots)	Tower/pole location & overhead/ underground line alignment selection (distance to nearest designated eco protected / sensitive areas)	Consultation with local forest authorities - once	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed siting and alignment survey /design	Through careful route selection involvement of forest/protected areas avoided to the maximum extent. However, given the magnitude of project and peculiarity of terrain, minimum involvement of 426.688 ha. of forest including 105.32 ha protected area couldn't be avoided as per details provided in Table- 2 .
			Minimize the need by using existing RoW wherever possible	Tower/pole location and overhead/ underground line alignment selection	Consultation with local authorities and design engineers - once		Part of detailed sitting and alignment survey /design	During survey, every effort made to utilize already available corridor wherever, possible.
8	Line through identified Elephant corridor / Migratory bird	Damage to the Wildlife/ Birds and also to line	Study of earmarked elephant corridors to avoid such corridors, Adequate ground clearance, Fault clearing by Circuit Breaker, Barbed wire wrapping on towers, reduced spans etc., if applicable	Tower/pole location and overhead/ underground line alignment selection. Minimum/ maximum ground clearance	Consultation with local forest authorities – once. Monitoring – quarterly basis	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed sitting and alignment survey /design and Operation	Through careful route selection, all known Elephant corridors have been avoided completely in consultation with forest authorities. However, during survey forest authority informed that Elephant sightings were reported in some section (AP60-AP75) of 132 kV Phulbari-Ampati line & 220kV Byrnihat-Mawngap-
								New Shillong (total 8 tower locations from AP 07/0 to AP 13/0) and therefore, provisions of tower extensions of 6m /9 m have been made so as to ensure unhindered passage of elephants.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	activity/stage	Inpact	Avoidance of established/ identified migration path (Birds & Bats). Provision of flight diverter/reflectors, Bird guard, elevated perches, insulating jumper loops, obstructive perch deterrents, raptor hoods etc. ⁵ , if applicable	Tower/pole location and	Consultation with local forest authorities - once		Part of detailed sitting and alignment survey /design and Operation	All such identified/ established birds migratory path have been avoided completely through adopting careful route selection technique. However, as part compliance to forest/wildlife clearance, bird diverters shall be installed in lines wherever such condition is imposed in forest/wildlife clearance by MoEFCC.
9	Line through forestland	Deforestation and loss of biodiversity, edge effect		Tower/pole location and overhead/ underground line alignment selection (distance to nearest protected or reserved forest) Intrusion of invasive species	Consultation with local authorities – once Consultation with local authorities and design engineers – once Consultation with local forest authorities - once	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed sitting and alignment survey/design	As explained above, proposed line routes of TL/DL have been finalised by taking consideration of minimum impact on forest area after consultation with forest authorities and/or village councils in case of private /community forest. However, applicable forest clearance under Forest (Conservation) Act, 1980 have been obtained/ are presently under various stages of approval process at State Govt/ RMoEFCC level (for details refer Table-2). As

⁵ As per International/National best practices and in consultation with concerned forest/wildlife Authority NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2021

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
		• • • • •	Obtain statutory clearances from the Government	Statutory approvals from Government	Compliance with regulations – once for each subproject			far as invasion of alien species is concern, it is noteworthy that actual damage/tree felling is minuscule and limited 3m strip below each conductor and not in whole RoW. Hence,
			Consultation with autonomous councils wherever required	Permission/ NOC from autonomous councils	Consultation with autonomous councils – once during tower placement			and not in whole Row. Hence, chance of invasion of alien species is not envisaged. Moreover, compensatory afforestation scheme is prepared by forest authority taking local species into consideration which is also integral part of forest proposal. The afforestation activity in forest land is the sole responsibility of forest deptt and user agency has no role in selection of species /afforestation activity in forest except depositing compensatory cost levied by forest deptt. For details on forest clearance please visit: http://forestsclearance.nic.in/ Online Status.aspx
10	Lines through farmland	Loss of agricultural production/ change in cropping pattern	Use existing tower or footings wherever possible	Tower/pole location and overhead/ underground line alignment selection	Consultation with local authorities and design engineers – once	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract	Part of detailed alignment survey and design	While passing through agricultural land construction activities are scheduled mostly during lean period so that damage to standing crop is avoided. However, full

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Avoid sitting new towers on farmland wherever feasible	Tower/pole location and overhead/ underground line alignment selection	Consultation with local authorities and design engineers – once	agreement)	Part of detailed sitting and alignment survey /design	compensation as per assessment of revenue authorities is paid to land owner/farmer in case of inevitable damages (refer Table-8 for details till June 21)
11		Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance	Noise levels	Noise levels to be specified in tender documents – once	IA	Part of detailed equipment design	Most of the proposed substations are located away from habitated area. Moreover, noise control measures already part of tender specification/ design criteria such as Transformers with maximum noise emitting level of 75 dB and DG set with proper enclosures.
12	Interference with drainage patterns/ Irrigation channels	Flooding hazards/ loss of agricultural production	Appropriate sitting of towers to avoid channel interference	Tower/pole location and overhead/ underground line alignment selection (distance to nearest flood zone)	Consultation with local authorities and design engineers – once	IA	Part of detailed alignment survey and design	The actual blockage of ground surface is limited to area covered by tower footing only and that also up to a maximum of 3m depth. Hence, chances of inference with drainage pattern/ irrigation channel are remote.
13	Escape of polluting materials	Environme ntal pollution	Transformers designed with oil spill containment systems, and purpose-built oil, lubricant and fuel storage system, complete with spill cleanup equipment.	Equipment specifications with respect to potential pollutants	Tender document to mention specifications – once	IA	Part of detailed equipment design /drawings	Complied. Part of detailed equipment deign/drawing. As per approved design provision of pit (capacity of 20% of transformer oil volume) below each transformer and a sump of capacity of 200% of oil volume of largest transformer is provided.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Substations to include drainage and sewage disposal systems to avoid offsite land and water pollution.	Substation sewage design	Tender document to mention detailed specifications – once	IA	Part of detailed substation layout and design /drawings	Complied. Part of detailed substation layout and design/drawings. Sample photos of integrated drainage & sewage disposal measures is placed as Plate- 8 .
14	Equipments submerged under flood	Contaminat ion of receptors	Substations constructed above the high flood level(HFL) by raising the foundation pad	Substation design to account for HFL (elevation with respect to HFL elevation)	Base height as per flood design- once	IA	Part of detailed substation layout and design /drawings	Complied. Part of detailed substation layout and design/drawings
15	Explosions /Fire	Hazards to life	Design of substations to include modern firefighting equipment Provision of fire fighting equipment to be located close to transformers	Substation design compliance with fire prevention and control codes	Tender document to mention detailed specifications – once	IA	Part of detailed substation layout and design /drawings	Complied. Part of detailed substation layout and design/drawings.
Con	struction							
16	Equipment layout and installation	Noise and vibrations	Construction techniques and machinery selection seeking to minimize ground disturbance.	and machinery	Construction techniques & machinery creating minimal ground disturbance- once at the start of each construction phase	IA (Contractor through contract provisions) (Sec-IX. PC 22.4.3.5, 22.4.1 of <i>Contract</i> agreement)	Construction period	Complied/ Being Complied. Use of low noise producing equipments /machineries by construction contractor is ensured through compliance contract condition
17	Physical construction	Disturbed farming activity	Construction activities on cropping land timed to avoid disturbance of		Crop disturbance – Post harvest	IA (Contractor through	Construction period	Complied/ Being Complied.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			field crops (within one month of harvest wherever possible).		as soon as possible but before next crop – once per site	contract provisions) (Sec-II. 2.5 of <i>Contract</i> <i>agreement</i>)		As already explained, construction activities on farm/agricultural land are being undertaken mostly lean/post-harvest period so that damage to standing crop is avoided. However, full compensation as per assessment of revenue authorities is paid to land owners/farmers in case of inevitable damages. (refer Table – 8 for details).
18	Mechanized construction	Noise, vibration & operator safety, efficient operation	Construction equipment to be well maintained.	Construction equipment – estimated noise emissions	Complaints received by local authorities – every 2 weeks	IA (Contractor through contract provisions) (Sec-IX.PC 22.4.3.6)	Construction period	Complied/ Being Complied. Proper maintenance of construction equipments by construction contractor is ensured through compliance of referred contract conditions. Noise levels are being monitored in all active sites regularly and all readings are found to be well within permissible limits (refer Plate- 10). Till date, only one complaint received from resident near Padampukhri substation site for which necessary measures were undertaken and no further complaint received (refer Table-9).
		Noise, vibration, equipment wear and tear	Turning off plant not in use.	Construction equipment – estimated noise emissions and operating schedules	Complaints received by local authorities – every 2 weeks	IA (Contractor through contract provisions)	Construction period	

Cla.		Potential	Proposed mitigation	Parameter to	Measurement		Implementation	Compliance Status
No.	activity/stage	impact	measures	be monitored		responsibility	schedule	
19	Construction of roads for accessibility	Increase in airborne dust particles	Existing roads and tracks used for construction and maintenance access to the line wherever possible.	Access roads, routes (length and width of new access roads to be constructed)	Use of established roads wherever possible – every 2 weeks	IA (Contractor through contract provisions) (Sec-II. 2.8)	Construction period	Complied/ Being Complied. Most of the sites are easily accessible and existing roads/paths are used for construction activities.
		Increased land requirement for temporary accessibility	New access ways restricted to a single carriageway width within the RoW.	Access width (meters)	Access restricted to single carriage –way width within RoW – every 2 weeks	IA (Contractor through contract provisions) (Sec-II. 2.8)	Construction period	However, at few sites, there was a need to strengthen existing paths/construction of approach road (refer Table-4 for details) in order to carry heavy equipments/ machineries.
20	Construction activities	Safety of local villagers	Coordination with local communities for construction schedules, Barricading the construction area and spreading awareness among locals	Periodic and regular reporting /supervision of safety arrangement	No. of incidents- once every week	IA (Contractor through contract provisions) (Sec-II. 2.2 iv, vi, vii & viii)	Construction period	Complied/ Being Complied. All requisite safety arrangement ensured through regular monitoring and compliance of contract conditions (refer Plate- 11). No accidents reported so far.
		Local traffic obstruction	Coordination with local authority/ requisite permission for smooth flow of traffic	Traffic flow (Interruption of traffic)	Frequency (time span)- on daily basis	IA (Contractor through contract provisions)	Construction period	Complied/ Being Complied. Most of the tower/pole locations are in farm/barren land. Hence, the problem of traffic obstruction is not witnessed. In case of road/ rail crossing due precaution and required permission (refer Plate-12) are being obtained prior to start of work. Till date only one complaint received in case of Bosta substation site which was promptly resolved (refer Table-9)

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
21	Temporary blockage of utilities	Overflows, reduced discharge	Measure in place to avoid dumping of fill materials in sensitive drainage area	Temporary fill placement (m ³)	Absence of fill in sensitive drainage areas – every 4 weeks	IA (Contractor through contract provisions) (Sec-II. 2.6)	Construction period	Complied/ Being Complied. Most of the fill materials are being utilized either in own premises for refilling/ resurfacing or being utilized for useful purpose with due consent of the local communities.
22	Site clearance	Vegetation	Marking of vegetation to be removed prior to clearance, and strict control on clearing activities to ensure minimal clearance. No use of herbicides and pesticides	marking and clearance	Clearance strictly limited to target vegetation – every 2 weeks	IA (Contractor through contract provisions) (Sec-II. 2.2 ix, 2.5)	Construction period	Complied/ Being Complied. Only controlled clearing of vegetation is being undertaken, if necessary and with the prior permission of competent authority
23	Trimming /cutting of trees within RoW	Fire hazards	Trees allowed growing up to a height within the RoW by maintaining adequate clearance between the top of tree and the conductor as per the regulations.	Species- specific tree retention as approved by statutory authorities (average and max. tree height at maturity, in meters)	Presence of target species in RoW following vegetation clearance – once per site	IA (Contractor through contract provisions)	Construction period	Complied/ Being Complied. Regulated felling in RoW is being carried out with the permission of owner and revenue authorities keeping required electrical clearance as per applicable norms (CEA's regulations, 2010 (Measures related to safety & electric supply)

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
	dolivity/otago	Loss of vegetation and deforestati on	Trees that can survive pruning to comply should be pruned instead of cleared.	Species- specific tree retention as approved by statutory authorities	Presence of target species in RoW following vegetation clearance - once per site	IA (Contractor through contract provisions) (Sec-II. 2.2 ix, 2.5)	Construction period	Complied/ Being Complied. Actual damage/tree felling is minuscule and limited 3m strip below each conductor and not in entire RoW. However, after stringing natural vegetation is allowed to regrowth in all these cleared strips except for one strip which is kept clear of vegetation for maintenance purpose. In remaining RoW area, only pruning/ pollarding is done to maintain electrical clearance.
			Felled trees and other cleared or pruned vegetation to be disposed of as authorized by the statutory bodies.	Disposal of cleared vegetation as approved by the statutory authorities (area cleared in m ²)	Use or intended use of vegetation as approved by the statutory authorities – once per site	IA (Contractor through contract provisions)	Construction period	Complied/ Being Complied. All felled trees are handed over to concerned authority/owner for disposal. IA/State Utilities have no role in storage or disposal of felled trees/wood
24	Wood/ vegetation harvesting	Loss of vegetation and deforestati on	Construction workers prohibited from harvesting wood in the project area during their employment, (apart from locally employed staff continuing current legal activities)	Illegal wood /vegetation harvesting (area in m ² , number of incidents reported)	Complaints by local people or other evidence of illegal harvesting – every 2 weeks	IA (Contractor through contract provisions) (Sec-II. 2.3)	Construction period	Compiled/Being complied. Regular monitoring is undertaken to ensure compliance of applicable contract provisions by contractor.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
25	Surplus earthwork/ soil	Runoff to cause water pollution, solid waste disposal	Soil excavated from tower footings/ substation foundation disposed of by placement along roadsides, or at nearby house blocks if requested by landowners	Soil disposal locations and volume (m ³)	Acceptable soil disposal sites – every 2 weeks	IA (Contractor through contract provisions) (Sec-II, 2.6)	Construction period	Complied/Being Complied. Approx. 90-95% of excavated soil is used for refilling/ resurfacing and rest is being disposed off along with other debris at designated location as already explained in clause no 21.
26	Substation construction	Loss of soil	Loss of soil is not a major issue as excavated soil will be mostly reused for filling. However, in case of requirement of excess soil the same will be met from existing quarry or through deep excavation of existing pond or other nearby barren land with agreement of local communities	Borrow area sitting (area of site in m ² and estimated volume in m ³)	Acceptable soil borrow areas that provide a benefit - every 2 weeks	IA (Contractor through contract provisions) (Sec-II, 2.9)	Construction period	Complied/ Being Complied. Excess soil is not required in most of the proposed substations as excavated soil is normally sufficient for levelling and refilling work. For few substations where excess soil is required, the same has been managed from existing approved/ registered borrow/ quarry or private land/pond after taking due permission/ consent. For details of borrowed earth utilized along with location co-ordinates & applicable consent/permission etc. is placed as Appendix-5 .
		Water pollution	Construction activities involving significant ground disturbance (i.e. substation land forming) not undertaken during the monsoon season	Seasonal start &finish of major earthworks (P ^H ,BOD/ COD, Suspended solids, others)	Timing of major disturbance activities – prior to start of construction activities	IA (Contractor through contract provisions)	Construction period	Complied/Being complied. No construction activities undertaken during monsoon period.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
27	Site clearance	Vegetation	Tree clearances for easement establishment to only involve cutting trees off at ground level or pruning as appropriate, with tree stumps and roots left in place and ground cover left undisturbed	Ground disturbance during vegetation clearance (area, m ²) Statutory approvals	Amount of ground disturbance – every 2 weeks Statutory approvals for tree clearances - once for each site	IA (Contractor through contract provisions) (Sec-VII, 9.3, 10.3)	Construction period	Complied/Being Complied. Already explained at clause no. 23.
28	Substation foundation/ Tower erection disposal of surplus earthwork/fill	Waste disposal	Excess fill from substation/tower foundation excavation disposed of next to roads or around houses, in agreement with the local community or landowner	Location and amount (m ³) of fill disposal	Appropriate fill disposal locations – every 2 weeks	IA (Contractor through contract provisions) (Sec-II, 2.6)	Construction period	Complied/Being Complied. Already explained at clause no. 21.
29	Storage of chemicals and materials	Contaminat ion of receptors (land, water, air)	Fuel and other hazardous materials securely stored above high flood level.	Location of hazardous material storage; spill reports (type of material spilled, amount (kg or m ³) and action taken to control and clean up spill)	Fuel storage in appropriate locations and receptacles – every 2 weeks	IA (Contractor through contract provisions) (Sec-IX, PC 22.4.3.3)	Construction period	Complied/Being Complied. Regular monitoring is undertaken to ensure that such materials are stored securely at designated places only along with sufficient containment as part of compliance of applicable contract provisions by the contractor.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
30	Construction schedules	Noise nuisance to neighbouri ng properties	Construction activities only undertaken during the day and local communities informed of the construction schedule.	Timing of construction (noise emissions,	Daytime construction only – every 2 weeks	IA (Contractor through contract provisions) (Sec-IX, PC 22.4.1)	Construction period	Complied/Being Complied. Construction activities are restricted to day time only. Further, regular monitoring is undertaken to ensure compliance of applicable contract provisions by contractor. Noise level measured in various constructions sites are found to be well with in permissible standard. (refer Plate - 10)
31	Provision of facilities for construction workers	Contaminat ion of receptors (land, water, air)	Construction workforce facilities to include proper sanitation, water supply and waste disposal facilities.	Amenities for Workforce facilities	Presence of proper sanitation, water supply and waste disposal facilities – once each new facility	IA (Contractor through contract provisions) (Sec-VIII, 22.2.1, 22.2.6, 22.2.11)	Construction period	Complied/Being Complied. Regular monitoring is undertaken to ensure compliance of applicable contract provisions by contractor. Refer Section 3.1.4 and Plate -4 for details on worker facilities in different work sites. Beside, all necessary measures are being undertaken in respect of proper sanitation, adequate availabity of PPEs (masks, globes etc.), testing including following social distancing norms to avoid spread of virus due to COVID-19 outbreak. Sample photos of such measures is placed as Plate - 13 .

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
32	Influx of migratory workers	Conflict with local population to share local resources	Using local workers for appropriate asks	Avoidance/red uction of conflict through enhancement/ augmentation of resource requirements	Observation & supervision– on weekly basis	IA (Contractor through contract provisions) {Sec-II, 2.2(iii)}	Construction period	Complied/Being Complied. Local workforces are being engaged by construction contractor based on skill in compliance to contract provisions. No incidents of conflict reported so far.
33	Lines through farmland	Loss of agricultural productivity	Use existing access roads wherever possible Ensure existing irrigation facilities are maintained in working condition. Protect /preserve topsoil and reinstate after construction completed Repair /reinstate damaged bunds etc after construction completed	Usage of existing utilities Status of existing facilities (earthwork in m ³) Status of facilities (earthwork in m ³)	Complaints received by local people /authorities - every 4 weeks	IA (Contractor through contract provisions) {Sec-II, 2.8 & Sec. IX, PC 22.4.2, (ii)}	Construction period	Complied/Being complied. Implementation of all proposed mitigation measures is being ensured including preservation of topsoil resulting in receipt of no complaints so far.
		Social inequities	Land owners/ Farmers compensated for any temporary loss of productive land as per existing regulation.	Process of Crop/tree compensation in consultation with forest dept.(for timber yielding tree) and Horticulture deptt.(for fruit bearing tree)	Consultation with affected land owner prior to implementation and during execution.	IA	During construction	Full compensation as per assessment done by revenue /forest authorities is paid to affected land owners/farmers. Accordingly, a total of approx Rs. 162.692 million & Rs 52.00 million have been paid for tree/crop and land compensation respectively to approx. 3336 affected persons till reporting period. (refer Table- 8)

	Project	Potential	Proposed mitigation	Parameter to		Institutional	Implementation	Compliance Status
No.	activity/stage		measures	be monitored		responsibility	schedule	
34	Uncontrolled erosion/silt runoff	Soil loss, downstrea m siltation	Need for access tracks minimised, use of existing roads. Limit site clearing to work areas Regeneration of vegetation to stabilise works areas on completion (where applicable) Avoidance of excavation in wet season Water courses protected from siltation through use of bunds and sediment ponds.	Design basis and construction procedures (suspended solids in receiving waters; area re-vegetated in m ² ; amount of bunds constructed [length in meter, area in m ² , or volume in m ³])	Incorporating good design and construction management practices – once for each site	IA (Contractor through contract provisions) (Sec-II, 2.7)	Construction period	Complied/Being complied. Wherever needed appropriate slope protection measures such as RRM Wall, Retaining Wall, Unequal Leg Extension (ULE) Revetment, Stone Pitching, along with bio- engineering measures like grass with bamboo grid undertaken/being undertaken as per site requirements (for details of such measures refer Table- 2 & Plate-4). Further as explained in clause no 19 & 22, adequate prudence has been practiced in site clearance and use of existing road/path.
35	Nuisance to nearby properties	Losses to neighbouri ng land uses/ values	Contract clauses specifying careful construction practices. As much as possible existing access ways will be used	Contract clauses Design basis and layout	Incorporating good construction management practices – once for each site Incorporating good design engineering practices– once for each site	IA (Contractor through contract provisions) {Sec-II, 2.8 & Sec. IX, PC 22.4.2, (ii)}	Construction period	Complied/Being complied. All such measures have been implemented as already explained at Clause no 17, 18, 19, 30 & 33.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
140.	denvity/stage	impact	Productive land will be reinstated following completion of construction	Reinstatement of land status (area affected, m ²)	Consultation with affected parties – twice – immediately after completion of construction and after the first harvest.		Schedule	
		Social inequities	Compensation will be paid for loss of production, if any.	Implementatio n of Tree/Crop compensation (amount paid)	Consultation with affected parties – once in a quarter	IA	Prior to construction	Complied/Being complied. Already explained at clause no. 33. All applicable compensation to all eligible PAPs are being paid in consultation with revenue authority and affected persons.
36	Flooding hazards due to construction impediments of natural drainage	Flooding and loss of soils, contaminati on of receptors (land, water)	Avoid natural drainage pattern/ facilities being disturbed/blocked/ diverted by on-going construction activities	Contract clauses (e.g. suspended solids and BOD/COD in receiving water)	Incorporating good construction management practices-once for each site	IA (Contractor through contract provisions) (Sec-II, 2.7)	Construction period	Complied/Being complied. Good construction management practices are being employed at sites to avoid blockage of natural drainage and resultant flooding. In case of river crossing foundation, a site- specific drilling waste management plan has been implemented to avoid/ minimize impact on water body.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
37	Equipment submerged under flood	Contaminat ion of receptors (land, water)	Equipment stored at secure place above the high flood level(HFL)	Store room level to be	Store room level as per flood design- once	IA (Sec-II, 1.11)	Construction period	Complied/Being complied. All equipment foundations are designed above in accordance with approved substation design/layout.
38	Inadequate siting of borrow areas (quarry areas)	Loss of land values	Existing borrow sites will be used to source aggregates, therefore, no need to develop new sources of aggregates	Contract clauses	Incorporating good construction management practices – once for each site	IA (Contractor through contract provisions) (Sec-II, 2.9)	Construction period	Complied/Being complied. Already explained at clause no. 26.
39	Health and safety	Injury and sickness of workers and members of the public	Safety equipment's (PPEs) for construction workers Contract provisions specifying minimum requirements for construction camps Contractor to prepare and implement a health and safety plan. Contractor to arrange for health and safety training sessions	Contract clauses (number of incidents and total lost-work days caused by injuries and sickness)	Contract clauses compliance – once every quarter	IA (Contractor through contract provisions) (Sec-II, 2.2 v, vii, viii & Sec- IX, PC 22.4.3.8, PC 22.4.3.24 and Safety Rules of PC 22.4.3.21)	Construction period	Complied/Being Complied with project specific safety plan and general conditions of contract which covers all applicable regulations. No major or minor accident reported till reporting period. Details on Health and Safety aspect provided in Section 3.1.4 .

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
40	Inadequate construction stage monitoring	Likely to maximise damages	Training of environmental monitoring personnel		Number of programs attended by each person – once a year	IA	Routinely throughout construction period	Complied/Being Complied All employees engaged in project execution including designated Environment Officers have been adequately trained. (refer Section 3.1.5).
			Implementation of effective environmental monitoring and reporting system using checklist of all contractual environmental requirements.	Respective contract checklists and remedial actions taken thereof.	Submission of duly completed checklists of all contracts for each site - once			Appropriate clause incorporated in contract provisions for EMP implementation. Site manager monitor and review the implementation of EMP on daily basis. Further, each State covered under the projects has been provided with a dedicated designated Environment Officers for proper monitoring and implementation of safeguards measures.
			Appropriate contact clauses to ensure satisfactory implementation of contractual environmental mitigation measures.	Compliance report related to environmental aspects for the contract	Submission of duly completed compliance report for each contract - once			In order to comply with such provisions and further improvement, site inspections /audits are being carried out periodically and memo/ observation/notice are issued to respective contractor for necessary compliance (refer Section-3.1.6 & Appendix-2 . for details).

Cla. No.		Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	ration and Mai		Illeasures	be monitored	anequency	responsibility	Schedule	
41	Location of line towers/ poles and overhead/ underground line alignment & design	Exposure to safety related risks	Setback of dwellings to overhead line route designed in accordance with permitted level of power frequency and the regulation of supervision at sites.	Compliance with setback distances ("as-built" diagrams)	Setback distances to nearest houses – once in quarter	State Utility	During operations	Complied/Being complied. Route alignment criterion is part of survey contract which was followed thoroughly during construction and no such exposure to safety related risks is anticipated.
42	Line through identified bird flyways, migratory path	Injury/ mortality to birds, bats etc due to collision & electrocutio n	Avoidance of established/ identified migration path (Birds & Bats). Provision of flight diverter/ reflectors, elevated perches, insulating jumper loops, obstructive perch deterrents, raptor hoods etc., if applicable	Regular monitoring for any incident of injury/ mortality	No. of incidents- once every month	State Utility	Part of detailed siting and alignment survey /design and Operation	Complied/Being complied. The line routes don't form part of any such areas. Moreover, no incident of injury /mortality of avifauna due to construction of lines have been reported from any sites so far.
43	Equipment submerged under flood	Contaminat ion of receptors (land, water)	Equipment installed above the high flood level (HFL) by raising the foundation pad.	Substation design to account for HFL ("as-built" diagrams)	Base height as per flood design – once	State Utility	During operations	Complied/ Being complied. Already part of detailed substation design.
44	Oil spillage	Contaminat ion of land/nearb y water bodies	Substation transformers located within secure and impervious sump areas with a storage capacity of at least 100% of the capacity of oil in transformers and associated reserve tanks.	Substation bunding (Oil sump) ("as- built" diagrams)	Bunding (Oil sump) capacity and permeability - once	State Utility	During operations	Complied/ being complied Oil sump of sufficient capacity already provided for each transformer which was also part of detailed substation design. However, no spillage of transformer oil is reported so far.

Cla.	•	Potential	Proposed mitigation	Parameter to	Measurement	Institutional	Implementation	Compliance Status
No.	activity/stage	impact	measures	be monitored		responsibility	schedule	
45	SF6 management	Emission of most potent GHG causing climate change	Reduction of SF6 emission through awareness, replacement of old seals, proper handling & storage by controlled inventory and use, enhance recovery and applying new technologies to reduce leakage	Leakage and gas density/level	Continuous monitoring	State Utility	During Operations	Complied/ being complied. Regular monitoring and controlled inventory is ensured to avoid any leakage of SF6.
46	Inadequate provision of staff/workers health and safety during operations	Injury and sickness of staff /workers	Careful design using appropriate technologies to minimise hazards Safety awareness raising for staff. Preparation of fire emergency action plan and training given to staff on implementing emergency action plan Provide adequate sanitation and water supply facilities	(lost work days due to illness and injuries) Training/awar eness programs and mock drills	Preparedness level for using these technologies in crisis – once each year Number of programs and percent of staff /workers covered – once each year Complaints received from staff /workers every 2 weeks	State Utility	Design and operation	Complied/ being complied. All safety related precautions/ systems/ plans are in place. Proper safety training for workers are being conducted on regular interval including mock drills on fire and other occupational hazards. Adequate sanitation/water supplies facilities provided/being provided for staff/worker in every establishment.
47	Electric Shock Hazards	Injury/ mortality to staff and public	Careful design using appropriate technologies to minimise hazards	appropriate	Preparedness level for using these technology in	State Utility	Design and Operation	Complied/ being complied. Used of technology like tripping line/substation in

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Security fences around substations	Maintenance of fences	Report on maintenance – every 2 weeks			milliseconds in case of any hazards. Boundary and Security fences
			Barriers to prevent climbing on/ dismantling of transmission towers	Maintenance of barriers				are maintained at each substation. Sufficient barriers with warning signages are maintained at appropriate places of line/substation.
			Appropriate warning signs on facilities	Maintenance of warning signs				Further, regular awareness/ mock drill on electrical safety and other occupational
			Electricity safety awareness raising in project areas	Training /awareness programs and mock drills for all concerned parties	Number of programs and per cent of total persons covered –once each year			hazards are being undertaken.
48	Operations and maintenance staff skills less than acceptable	Unnecessa ry environme ntal losses of various types	Adequate training in O&M to all relevant staff of substations & transmission/distributi on line maintenance crews. Preparation and training in the use of O&M manuals and standard operating practices	Training/awar eness programs and mock drills for all relevant staff	Number of programs and per cent of staff covered – once each year	State Utility	Operation	Being complied. Regular trainings are being imparted to staffs engaged in O & M activity based on their skill at regular interval
49	Inadequate periodic environmenta I monitoring.	Diminished ecological and social values.	Staff to receive training in environmental monitoring of project operations and maintenance activities.	Training/ awareness programs and mock drills for all relevant staff	Number of programs and per cent of staff covered – once each year	State Utility	Operation	Complied/ being complied.

Cla.	•	Potential	Proposed mitigation	Parameter to	Measurement	Institutional	Implementation	Compliance Status
<u>No.</u> 50	activity/stage Equipment specifications and design parameters	impact Release of chemicals and gases in receptors (air, water, land)	measuresProcesses, equipmentand systems usingcholofluorocarbons(CFCs), includinghalon, should bephased out and to bedisposed of in amanner consistentwith the requirementsof the Govt.	be monitored Process, equipment and system design	& frequency Phase out schedule to be prepared in case still in use – once in a quarter	responsibility State Utility	schedule Operations	Complied/ Being complied. Already part of equipment specification (CFC Free)
51	Transmission / distribution line maintenance	Exposure to electromag netic interferenc e	Transmission/distributi on line design to comply with the limits of electromagnetic interference from overhead power lines	Required ground clearance (meters)	Ground clearance - once	State Utility	Operations	Complied/ Being complied. Designed as per guidelines of ICNIRP and ACGIH and checked by CPRI &M/s PTI, USA.
52	Uncontrolled growth of vegetation	Fire hazard due to growth of tree/shrub /bamboo along RoW	Periodic pruning of vegetation to maintain requisite electrical clearance. No use of herbicides/pesticides	Requisite clearance (meters)	Assessment in consultation with forest authorities - once a year (pre/post monsoon)	State Utility	Operations	Being complied.
53	Noise related	Nuisance to neighbouri ng properties	Substations sited and designed to ensure noise will not be a nuisance.	Noise levels {dB(A)}	Noise levels at boundary nearest to properties and consultation with affected parties if any - once	State Utility	Operations	Complied/ being complied. The average noise level reported at the boundary of substation is in the range of 49-52 dB which are well within permissible limit.

Appendix-2 : Sample copy of Notice/Memo to Contractor for Compliance of EHS conditions

POWER GRID CORPORATION OF INDIA	and Size. In other to be readed to the second second
(A Government of Indi: Donotieb, Loo	wer Nongrah, Lapaing, (Shillong)-793006
Phone: (0364) 2536178, Fax: (0	1364) 2536397, Email: nerts_os@yahoo.in
उत्तर-पूर्वी क्षेत्रीय मुख्यालय: प्रचालन सेवा; NERTS RH(REF: NESH/Safety/Audit/113/2020/50	2: Operation Services Date: 24.02.2020
To, The Project in-charge A/s USTL JO.POWERGRID CORPORATION OF INDIA LTD, 32kV Powergrid Sub-Station, Khlichriat deghalaya- 793200	
iub: Safety Cheek / Audit, Dear Sir,	
Inder signed has visited construction work of (LILO) 132kV MLE Chlichriat on 24.02.2020. The Safety check / Audit has been carried ite engineers. During the Safety Check / Audit, some lapses pertaining bserved. The observations are as follows:	out along with your Safety officer /
be observations are mentioned as under:	
During audit it has been observed that the back stay is not provided one side stringing has been completed. The back stay shall be provide compressor machine being used at site observed without meter. The emoved from working site and new compressor m/c with meter shall "he duly filled & signed check list (prior to start stringing activities) a vailable and a copy shall be submitted to POWERGRID. "irst-Aid materials in the first aid box at site observed insufficient, the leight pass, medical fitness certificate and induction training record a ubmitted to POWERGRID. During audit it has been observed that fall arrestor locks are not pro- hall be provided to each individual fitter for safe ascending & descer- tion, it was observed that simultaneous locking/anchoring of both 1 one by fitters while working at height, the same shall be ensured to a simultaneous loading of conductor i.e. Top-Top, Middle-Middle & tringing and providing of back stay shall be ensured where ever requ	e compressor m/c without meter shall be be provided. gainst each individual span shall be made e same shall be refilled. of the fitters engaged at work site shall be wided to each fitter, the fall arrestor lock iding. anyard of full body safety harness is not woid fall from height. Bottom -Bottom must be ensured during ired.
ou are requested to look in to the matter seriously and comply the ob- ction shall be taken as per terms and condition of contract. The con- tegional Safety, Shillong through concern site in-charge /site engineer a cnsure the implementation of proper safety measures at working sit	of POWERGRID. Further, it is reconsted
hanking you, nelos: As above	AR TIES
opy to:	Regional Safety Officer Shillong.
 Sr. GM (I/C AM), Shillong – For kind Information GM (Safety, NERPSIP), Guwahati – For kind information DGM (NERPSIP), Khliehriat 	(Pulakesti Roy) Regional Safety Officer Shillong. Nand Kisher (24/02/20) 24/02/20) (Safet rothic K 6560121, Fact 011-6560009 Gruns: "NATORID"
shitan matrix #- 19. gege restripent tilan, mesitar man, or facto 1160-16. strange Registered Office: B-9, Quick Institutional Area, Katsaria Sarai, New Delhi- 110016, EPBAX	R1 0560121, WHIL 011-8 500007 187 - 10115

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Ref: USTL/20-21/TW-02/P-54B/1182	Unique
Dated: 25th June 2020	
To, The Regional Safety officer Shillong Through Dy. General Manager (NERPSIP) Joston newsyl and officer	STRUCTURES
The Regional Safety officer	ATOWERS
Shillong Through Dy. General Manager (NERPSIP), Jorthan Mean I Power Grid Corporation of India Limited, Khlichriat (Meghalaya)	TOWERS
Through	LIMITED
Dy. General Manager (NERPSIP),	Se co
Power Grid Corporation of India Limited,	
Khlichriat (Meghalaya)	

transmission line at Mynkre. Ref.:- 1) Order No.CC-CS/91-NER/TWT-2469/1/G4/CA-II/5844,dtd.30.08.2016 (SERVICES)

- 2) Your letter no. NERPSIP/Safety/Audit/113/2019 Dated 14.11.2019

3) Your letter No.: NESH/Safety Audit/113/2020/50 date 24.02.2020

Dear Sir,

With reference above subject, we are herewith submitting safety audit report compliance of observation points during safety audit on dated 14.11.2019 and 24.02.2020 as under.

SI No	Observations	Compliance		
A	Observation points on dated 14.11.2019			
1	Prior to atringing checklist is not available. The check list shall be duly filled and shall be signed by the contracting agency as well as by the POWERGRID personnel for each individual span prior to start the stringing activity.	Copy of checklist is attached duly signed by us and POWERGRID for your record. (Annexure - I)		
2	Induction training & medical health checkup for the newly engaged workers / fitters are yet to be done. The same shall be ensured prior to engage them at work.	alth Copy of Health checkup report is attached for rs / your record. hall		
3	Proper stringing procedure i.e. simultaneous stringing of the circuit viz. top-top, middle-middle and bottom-bottom shall be ensured	adopted.		
4	Power winch m/c is not available at site, required to be made available at working site for safe stringing activity in hilly terrain.	stringing activity of hilly terrain section.		
5	Retractable fall arrester is yet to be procured. The same shall be procured urgently.	Retractable fall arrester provided to stringing workers. Purchase document and picture attached for your record. (Annexure -IV)		
6	During audit it has be observed that the compressor machines are being used do not have meter. Compressor machines having meter shall be made available at stringing site to ensure the proper compression of the joints.	(Picture attached for your record.)		
: 0788- 788-22 : ustlbhi	Regional Office Instrial Area, Bhilai 490 026 (C.G.) 4082400, 2285409, 2281606 85574, 4082421 Bidi@ustl.co.in; 7316CT1985FLC002887 Regional Office 2nd floor, "Siti Centre" 26A Cantonment, G.S. Roi Shillong • 793002, Meghal Phone: 0364-2544012, Faa Email : satishillongi2astl.co.in 7316CT1985FLC002887	aya Phones::0771 - 2324944, 2324945, 3295611, 42 : 0364-2544046 Fax::0771 - 2324450, 4215555		

Compliance report submitted by USTL Power & Infra Ltd. For the safety non-compliance notice issued by the regional safety officer NER, RHQ-Shillong. Vide letter no. NESH/Safety/Audit/113/2019/274 dated 14/11/2019 & 113/2020/50 dated 24/02/2020

				Uniqu		
				STRUCTUR		
				& TOWER		
				LIMITE		
7	During audit it is four fall arrester is not ins where work at height Installation of the sam for safe ascending & o tower	talled in the tower is under progress, e must be ensured	arrester to uses of Ro height.	also provided Rope Grab fall o workers and we are insuring the ope Grab fall arrestor while work at tached for your information.) a - VII		
.8	It is also found that I being used in horizonta type pulley. This m untoward incident / acc	il load instead of I- ay leads to any	workers as	also provided the I-type pulley to nd insuring the in I-type pulley will horizontal load.		
9	Load is given to chimne protection. Strong wo sand bag protection shi given any load to the to	y without adequate oden log/plank & all be given prior to	sand bag /chimney	provided wooden log/plank and and we are insuring the tower leg will protracted with strong wooden & sand bag while giving load to ower leg.		
10	First aid box shall be each working location.			Box provided to every working		
B	Observation points on	dated 24.02.2020				
1	During audit it has been back stay is not provide no 1A/0 (DD+0)					
2	Compressor machine I observed without mete m/c without meter sha working sit and new con meter shall be provided.	r. The compressor Il be removed from mpressor m/c with	(Picture attached)			
3	The duly filled & signed start stringing activiti individual span shall n copy shall be submitted	ies) against each nade available and	Copy of checklist is attached duly signed by us and POWERGRID for your record. (Annexure - I)			
4	First aid material in the observed insufficient, t refilled.	first aid box at is				
5	Height pass, medical and inductor training p engaged at work site sha POWERGRID.	ecord of the fitters	Copy of Height pass, medical fitness certificate and induction training record is attached. (Annexure - II)			
6	During audit it has beer arrestor locks are not fitter, the fall arresto provided to each individ ascending & descending	provide to each or lock shall be jual fitter for safe		provided arrestor locks to each		
	for					
: 0788-4 788-228 ustibhi	ustrial Area, Bhilai-490 026 (C.G.) 1082400, 2285409, 2281606 15574, 4082421 1ai@ustl.co.in 316CT1985PLC002887	Regional Office 2nd floor, "Siti Centre" 26A Cantonment, G.S. Ros Shillong - 793002, Meghal Phone: 0364-2544012, Pax Email : ustlshillong@ustl.c	аул 10364-2544046	Works Office : Plot No. 263 to 268 & 306 to 311, Urla Industrial / Raipur - 493 221 (C.G.) INDIA Phones :0771 - 2324944, 2324945, 3295611, 4215; Fax : 0771 - 232450, 4215555 Email ustlrpr@ustl.co.in		

Unique TRUCTURES OWERS м т 7 Also, it was observed that simultaneous We are ensuring the anchoring of both lanyard of full body safety harness will be locking/anchoring of both lanyard of full body safety harness is no done by fitters done by every fitter. while working at height, the same shall e ensured to avoid fall from height. 8 Simultaneous loading of conductor i.e. We are following the same procedure (Top-Top-Top, Middle-Middle & Bottom-Bottom Top, Middle-Middle & Bottom-Bottom) and must be insured during stringing and we will place back-stay of tower where it is providing of back stay shall be ensured required. (Some pictures attached for your information.) where every required. (Annexure - III) 0 Thanking you and assuring you our best services at all time. Yours Sincerely, for Unique Structures & Towers Ltd. **Ravilesh Kumar** [Project Manager - Khliehirat] Enclosed: A/A Copy to: 1) GM, NERPSIP, Shillong 2) USTL Bhillai Head office for information Head Office : **Regional Office** Works Office : 1-A, Light Industrial Area, Bhilai-490 026 (C.G.) 2nd floor, "Siti Centre" Plot No. 263 to 268 & 306 to 311, Urla Industrial Area, Phone: 0788-4082400, 2285409, 2281606 26A Cantonment, G.S. Road, Raipur - 493 221 (C.G.) INDIA Fax: 0788-2285574, 4082421 Shillong - 793002, Meghalaya Phones :0771 - 2324944, 2324945, 3295611, 4215500 Email ; ustibhilni@ustl.co.in; info@ustl.co.in Phone: 0364-2544012, Fax : 0364-2544046 Fax: 0771-2324450, 4215555 CIN No. : U27310CT1985PLC002887 Email : ustishillong@ustl.co.in Email : ustlrpr@ustl.co.in Compliance report submitted by USTL Power & Infra Ltd. For the safety non-compliance notice issued by the regional safety officer NER, RHQ-Shillong. Vide letter no.

NESH/Safety/Audit/113/2019/274 dated 14/11/2019 & 113/2020/50 dated 24/02/2020

Appendix-2a : Sample Copy of Penalty Notice/Memo issued to contractor for non - compliance of EHS Conditions

	वरगिड	where fifther and the	रेशन औफ इंडिन्डा लिमिटे
	WERGRID	POWER GRID CORPO	RATION OF INDLA LIMITE
	VENCINID		(A Government of India Entergete
Ref: NE	RPSIP/Mizonam/S&W/Safety	/F-118/2019/675	Date: 27.12.2019
	eet Head T&D East, ling & Wilson Pvr. Ltd.		
	Atta	Mr. Indrajit Das Gupta	
Sub: No instructio		cts, Unsafe work conditions, Non	compliance of sufery
Ref: Len	2] NERPSIP/MIZORAN 3] Safety Inspection Reps	4/5&W/SAFETY/F-118/2018/210 1 4/5&W/SAFETY/F-118/2019/297 art on 20.02.2019 aion of Monthly Safety Report dated: 0	DATE: 22.01.2019
	03.10.2019 5] NERPSIP/MEZORAN	M/SAFETY/F-118/SW/2019/652 D ubmission of Monthly Safety Report d	ATE: 26.11.2019
Dese Sir,			
PLAN, A as per cl awarded officer w monthly condition A if not cor	a per clause No. 8 you had en ause No.11 you had accepter work, many times during PC as not present, after repeated v safety report is not complied is without using any safety gea	we shall be bound to impose a pe- rliest.	PE at site during work, net for the concerned ound that your safety from us submission of nen working in unsafe
			2 4
			(TV RAO) DGM/NERPSIP
Encl: As	mentioned above		AIZAWL
Copy To 1] COO, 2] Project	S&W, Mumbai - For kind info Manager, S&W, Aizawi	simation.	
		. Q. Al. rifer, Ren: arçılır, Dalam oysors Şûr: arlad, Disi, Asaad, Missian 196000 erradi meşdir.	
व्यक्तित कार्यसम्द में -१.	केन्द्रीय कार्यालयः 'सीटायेश'ः आट गण Corporate Office: 'Sectoria', Pict % कुपुत्र इंटर्डियुवन्त सुरेष, कटकरिया कार्य, 'मूं दिल्ली 9. Dutati institutional Area, Katowia Sara, New	1. Berl -29, IJSEN -122001. BEUTEN genere 0124-2571 a.2. Sector-29. Gurugiano-122001, Okayanai Tel: 0124-21 -10006. gTener 011-22580112, 20580121, 2058032, 20 Date 10006. Tel: 011-22580112, 26580121, 26564812, 2 date even provergide dia com	१९४२-११२ १९१२४४-११४ ५६४४४२, सीआईएम, १४४१४४१४, एअ४५५२७७५४१३१

	Арр	endix-3 : Det a	ils of Changes i	n substation location vis-à-vis locations envisaged in IEAR
SI. No	Name of Substation	Co-ordinate as per IEAR	New Location Co-ordinates	Reason for Change in location
Ass	sam			
1	220/132 kV Amingaon	26°14'11.77"N 91°42'19.99"E	26°14'10.75"N 91°39'1.58"E	Earlier land was proposed in the premises of Industrial Estate, Amingaon. However, the Industrial Estate Authority and AEGCL could not reach a common agreement. Therefore new Govt. Land has been finalized approx 5.5 km west from earlier land.
2	132/33 kV Tangla	26°40'22.34"N 91°55'48.38"E	26°39'39.32"N 91°55'17.48"E	Location changed by AEGCL due to non-finalization of earlier identified land. New location is 1.5 km south-west from earlier location in the same locality.
3	132/33 kV Chapakhowa	27°52'54.32"N 95°44'47.13"E	27°55'15.02"N 95°44'20.62"E	Earlier identified land found technically not suitable due to low lying area. New land finalized in same locality which is 4.5 km north from earlier location.
4	132/33 kV Tezpur	26°41'12.78"N 92°50'39.33"E	26°40'25.51"N 92°50'9.80"E	Location changed by AEGCL due to non-finalization of earlier identified land. New location is 1.6 km south-west from earlier location in the same locality.
5	33/11 kV Silapathar -II	Not provided	27°32'9.99"N 94°42'40.82"E	Location changed by AEGCL due to non-finalization earlier identified land. New location is approx. 900 m from earlier location.
6	33/11 kV LGM Hospital	26°37'58.45"N 92°48'44.17"E	26°38'44.26"N 92°45'35.82"E	Location changed by AEGCL due to non-finalization earlier identified land. New location is 5.5 km north-west from earlier location.
7	33/11 kV Romai	27°26'25.02"N 95°02'17.51"E	27°25'34.67"N 95° 3'22.69"E	Location changed by AEGCL due to non-finalization earlier identified land. New location is 2.3 km south-west from earlier location.
8	33/11 kV Dibrugarh	27°27'49.21"N 94°54'20.65"E	27°28'14.89"N 94°54'56.48"	Location changed by AEGCL due to non-finalization earlier identified land. New location is 1.27 km north east from earlier location.
9	33/11 kV Domdoma- Hazo	26°14'58.61"N 91°34'18.98"E	26°16'20.13"N 91°30'13.17"E	Location changed by AEGCL due to non-finalization earlier identified land. New location is 7.3 km north west from earlier location.
10	33/11kV GS Road	26°9'47.17"N 91°46'16.39"E	26°10'4.19"N 91°45'37.22"E	The land owner & APDCL could not reach a common agreement. Therefore new land finalized within APDCL premise (approx. 1.2 kms north west of earlier location).
Me	ghalaya	•		
1	220/132/33 kV New Shillong GIS	25°36'47.90"N 91°56'38.85" E	25°37'45.08"N 91°59'34.38"E	Location changed by MePTCL due to non-finalization of earlier identified land. New land was selected/ finalized which is 5.5 km north west from earlier location.

	100/00 101			
2	132/33 KV	Not provided	25°51'12.12"N	Location changed by MePTCL due to non-finalization of earlier identified land. New land
	Phulbari		90° 05'6.21"E	was selected/finalized in the same locality approx. 5.7 km in east direction.
3	33/11kV	25°19'32.34"N	25°13'26.70"N	Location changed by MePDCL due to non-finalization of earlier identified land. New
	Rymbai	92°19'22.44"E	92°22'37.88"E	land was selected/ finalized which is 12.5 km from south west from previous location.
4	33/11kV	25°20'36.54"N	25°22'41.00"N	MePDCL changed the land due to dispute in identified land. New substation location is
	Latyrke	92°28'21.42"E	92°25'54.26"E	5.6 km south east from earlier location.
	(Sutnga)			
5	33/11kV	25°10'23.7"N,	25°18'21.62" N	MePDCL changed the substation location subsequently to Byrnihat instead of
	Lumshnong	92°23'33.54"E	92°22'58.12"E	Lumshnong which is 12.5 km north from earlier location.
6	33/11 kV	Not provided	25°44'7.35"N	Location changed by MePDCL due to non-finalization of earlier identified land. New
	Rajaballa	•	90° 0'16.60"E	land was selected/ finalized in same locality approx. 2.5 km from earlier location.
	Bhaitbari			
7	33/11 kV	25°25'09.11"N	25° 24.787' N	Location changed by MePDCL due to non-finalization of earlier identified land. New
	Mawkynrew	92°00'03.36"E	91° 59.817' E	land was selected/ finalized in same locality approx. 700 m south west from earlier
				location.
8	33/11 kV	25°36'40.27"N	25° 35.647' N	Location changed by MePDCL due to non-finalization of earlier identified land. New
	Mawpat	91°57'08.12"E	91°54.311' E	land was selected/ finalized which is 5 km south west from previous location.
Tri	pura			
1	33/11kV	22°59'45.60"N	22°59'53.88"N	New land finalized approx. 900 m towards north west as the earlier identified land was
	Manughat	91°38'60.00"E	91°38'28.28"E	found to be a forest land.
2	33/11kV	23°1'43.74"N	23° 1'24.52"N	New land finalized approx. 600 m towards south east as the earlier identified land was
	Srinagar	91°33'40.28"E	91°33'50.99"E	found to be a forest land.
3	33/11kV	23°32'56.1"N	23°32'39.22"N	Earlier identified land was old Nalchar Tehsil Office & Polling booth/ station. Thus, DM
	Nalchar	91°21'41.2"E	91°21'20.35"E	Bishramganj allotted alternative land. Present location 700 mt towards south direction.
4	33/11kV	23°39'9.83"N	23°40'6.92"N	Earlier identified land was old Durganagar Tehsil office & Polling booth/ station. Thus,
	Durganagar	91°14'8.51"E	91°14'59.91"E	DM Bishramganj allotted alternative land approx. 2.2 km northeast from earlier location.
Ма	nipur			
1	33/11 kV	24°41'59.35"N	24°42'24.48"N	Location changed by MSPCL due to non-finalization of earlier identified land. New land
	Andro	94° 1'30.24"E	94° 1'34.80"E	finalized in nearby locality (approx. 700 m north) adjacent to State PWD Road.
2	33/11 kV	Not provided	24°45'5.84"N	Due to RoW issue location changed and new land finalized by MSPCL and handover
	Pishum (GIS)		93°56'3.63"E	to POWERGRID.
3	33/11 kV	Not provided	24°40'55.72"N	New land selected/finalized by MSPCL approx. 2.5 km from earlier location.
	Leimapokpam		93°50'35.45"E	
				· · · · · · · · · · · · · · · · · · ·

4	33/11 kV	Not provided	24°27'12.96"N	New land selected/finalized approx. 1.5 km from earlier location as land owner &			
	Kwakta		93°43'45.04"E	MSPCL could not reach a common agreement in earlier identified land.			
5	33/11 kV	24°48'24.96"N	24°49'18.05"N	Final location is 1.5 km north from earlier location.			
	Porompat	93°59'53.25"E	93°59'59.00"E				
Miz	oram						
1	132/33 KV	22°50'19.32''N	22°51'13.02"N	Earlier site proposed by PEDM has been shifted about 1.6 km towards the northwest			
	Lungsen	92°36'5.76"E	92°35'38.63"E	direction due to space constraint.			
2	33/11kV	22°19'42.56''N	22°22'11.23"N	Earlier site proposed by PEDM has been shifted about 4.6 km towards the north			
	South	92°45'57.35"E	92°45'24.28"E	direction.			
	Bungtlang						
Nag	galand						
1	132/33 KV	24°44'31.22''N	24°43'55.75"N	Location changed due to space constraints. Final location is 1.6 km south west of earlier			
	Kohima	94°06'24.94"E	94°5'39.64"E	location.			

Appendix-4 : Sample Case of Compensation Process

		rt. of Tripura Enterprise)	1	
	2	Ø		
DATE	06/258	NOTICE	The later	
	MAUSUMI M	ATUMATOL	Date 30 01/ 2021	
To	MAUSUMIT M	AJUM DEK (NI	AN DI)	
Sub :	- Utilization of land for tow connection with "	er footing at Loc. No. AP	-20 type of tower DDt 02 in Old Monuto New Menny	
Dear	Sir,			
menti	As per section 67 of the Electricity laned below for construction of towe	y Act, 2003, we require a pr	ortion of your land having the area	
The S	Sub-Divisional Magistrate	will assess neces	ary compensation in this respect.	Notice to land
SI. No.		Area of land utilization	Name of present occupier and relation	owner for lan
1	Name - MAUSUMI MADU	Contraction of the second second	MAUSUMI MAJUM	
3	Khatian No.: 202	SN-mtr	DER (NANDI)	compensatio
4	Jote No	Sa-mi	W10-Anjan Nordi	o o nipono ano
-	mount preserved	The second se		
	333	dito	Mousume Mojumdes (Nande/	
Signa	sture of the Power God Corp. of	Signature of The Sugar	Signature /Thumb impression of land Owner / Presant Occupier	
	Name and Seatrunters of Parille	MOTENDIANY TOURA	Address -	
	ar. OGN. Powerond grapters/Humaryhat	MALAITE	Monighet Dhales Thipura	
Witne	ess: 1. Anjan Nonsh	LTV.C	Yours faithfully	
			Dire	
			Signature of the TSECL Name & Seat unit Debbarmal	
Copy		formation please	CHIDUTY CHELIET # DUVISION	
	e Deputy General Manager, PKC	Berry, TIFCL for favour of	kind information archat, on a stick topura	
3. The	e S.D.M	requiring the required of the second se	Acted the suppose rup agent read	
	e Tehsiidar, Menyhat	and payment of sumportant		
	a		Dis	
			Signature of TSECL	
		ECTRICITY CORPORATIO	Ala Depute General Manager	

-		ider 1 wo4	pathar TL un	maji-Sila	ower) Dhe	on D/c t	32 kV S/c	spect of 1	rea in re	er base a	pensation of tow	and value com	eet of 85% l	mentsh	Assess	
Net			Rate per	101,2011	Tota Man	91 dated	-219/2015	n no. PEL	tification	ssam nt	Ref: Govt. of A			-	-	_
amount t	Amount of compensation	alculation of area as per approved drawing bigha taken Total		Calculation of area as per approved drawing bigha taken Total A	Area Area Office		alculation of area as per approved drawing		Patta	Dag	Father's name	Name of	Tower	Tower	Notice Town	
	@85%	(INR)	Office (IN	Area (sq. ft)				Breadth (m)	Length (m)	no.			land owner	type	Loc. no.	No.
26520.00	26520.00	31200.00	1200000.00	0.026	376.472	34.975	5.914	5.914	Govt. land	1 (part)	S/o- Gonti Borselek	Padmeswar Doley	DA+3	15/6	147	1
23460.00	23460.00	27600.00	1200000.00	0.023	336.231	31.237	5.589	5.589	Govt. land	1 (part)	S/o Pasuram Borselek	Anad Pamey	DA+0, 1m RC	15/8	149	2
37740.00	and the second s	44400.00	1200000.00		530.147	49.252	7.018	7.018	Govt.	24 (part)	S/o- Dilip No. 1 Udmora	Ramesh Pegu	DA+6, 1m RC	15/9	148	3
87720.00	payable (INR)-	ion amount p	otal compensati	Te												

Note: Sh. Ananta Pame and Sh. Anad Pamey is the same perso

<u>23/04/2021</u> تقتر: متلا/للمله عرابتغمار (UJAL NATH عرابتغمار (NERPSIP) أعتر المعرفين (NERPSIP)

प्रि. २८२५ २.३. जी-२२२२ महान्यम्म् GM (NERPSIP) प्रावरग्रिङ/POWERGRID निरावप्रधार/Silapathar

ShageniKa 22 104/21 Project Manayer 122 KVGSS, SRapatha NERPS"

0 2 17 105 Circle Officer Iborgeon Rev. Circle

Land Compensation Assessment duly certified by SDM

GOVERNMENT OF NAGALAND पावर ग्रिड कारपोरेशन आफ इंडिया लिमिटेड UIGZIQIS OFFICE OF THE DEPUTY COMMISSIONER POWER GRID CORPORATION OF INDIA LIMITED KOHIMA: NAGALAND POWERGRIL NERPSIP, KOHIMA, NAGALAND CIRCULAR Dated Kohima the 24th June 2021 NO. REV/PWR/2014/ This is to inform all the concerned landowners for TO WHOM IT MAY CONCERN Package-TW-06 and 132 KV New Kohima to New Secretariat NAG-TW-05 :Kohima-Wokha Package-TW-06 ind 132 KV New Kohima to New Secretariat NAG-TW-05 :Kohima District, that issue of cheques for compensation of land and surface damages shall be paid in the Office of the Deputy Commissioner, Kohima on 5th July 2021 at 10:00 AM. The concerned landowners are hereby informed to be present physically during the disbursal of cheques, failing which payment shall be withheld. All affected landowners, beneficiaries are requested to bring along 4(four) recent passport size photos (not to scan), Aadhaar card/LD Proof and Bank Passbook Xerox copy. Payment to any other representative other than the concerned person shall "NOT" be 97296.00 (In words) This is to certify that an amount of Rs entertained. Hinety sur thousand two hundred ninety 81x has been duly compensated *All beneficiaries are requested to maintain the laid down SOPs of the Government. This is issued for strict compliance by all concerned. Zakenie khoubve for the land and surface to Shri/Ms sdi. damages incurred during the construction of LILO of 132kV S/C kohima - wokha at New (GREGORY THEJAWELIE)NCS Deputy Commissioner Kohima Transmission line under NERPSIP, Nagaland. Location no. 4-P 11/0 of Kohima: Nagaland NO. REV/ PWR/2014/ 111 Dated Kohima the 2921. Hadina Village, Kohima district measuring an Area of ______857.353 Copy to: (The Commissioner, Nagaland for information. The Figureer, NERPSIP, Nagaland, for information and to depute a representative during 2 Sq.ft. disbursal of cheques to landowners. 3. The Additional Deputy Commissioner, Chiephobozou for information. The Extra-Assistant Commissioner, Botsa for information. 5. The Village Council Chairman Kohima / Zhadima/ Phezha- Nerhe/ Thizama/ Teichüma / Terogyunyu / Tseminyu/ Tesophenyu / Ziphenyu/ New Tesophenyu/ Tsonsa/ Kandinu , for information and to be present or send a representative for identification of landowners. List of landowners enclosed. The Head DB to serve the circular to all concerned and return the sam 7. Office copy. 16/20 Noo (Signature of landowner) (KELEVITUO MISA)NCS Witness Revenue Officer Kohima: Nagaland

Notice from office of DC, Kohima regarding disbursement of compensation payment to landowners

Acknowledgement by Land owner on receiving of compensation amount

भारतीय स्टेट बेंक State Bank Of India (00214)-KOHIMA NEAR DEPUTY COMMISSIONER'S OFFICE KOHIMA MAGALAND 797001 Tel : 370 222421 Fax : IFS Code : SBIN0000214 SWIFT :	
PAY ZAKIENEI KHOUBVE	को या उनके जादेश पर OR ORDER
hundred minety seven thousand two	
hundred minety seven only, savat	₹ 97,297/-
10530522383 VALID UPTO T 50 LACS AT NON-HOME BR	
CURRENT A/C PREFIX : 1515000003	Ambe
MULTI-CITY CHEQUE Payable at Par at All Branchas of SBI	Kohima Pean van store
""462964" 797002102" 000563" 29	

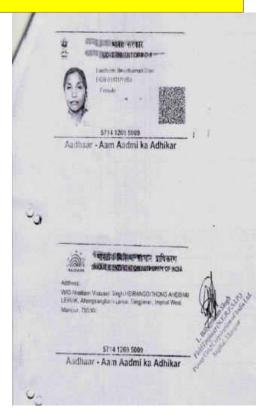
Compensation Cheque to Land owner distributed by DC, Kohima

	E DEPUTY COMMISSIONER IMA: NAGALAND	Trees:-				14-14
NO. REV/PWR/2014/ ///		SI. No.	Items	Categories	Size	Rate
1922 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 - 1939 -	Dated Kohima the March 2019	1.	Timber	Class A	Girth (1'-3') Above Girth 3'	₹. 200/ tree ₹.400/ tree
N	OTIFICATION	2.	Timber	Class 'B' & 'C'	Girth (1'-3') Above Girth 3'	₹. 160/tree ₹. 320/tree
		3.	Firewood: (more than 1' girth only)	Good variety Common variety		₹. 150/tree ₹.75/tree
The undersigned is pleased to noti trees /plantation / Land under Power Gr Land within Kohima District.	fy the following rates of compensation for damage of Id Project within Kohima District trees /plantation /	4.	Bamboo	Large variety Jatti variety		₹.60/plant ₹.50/plant
CONTRACTOR DEPENDENCE		Fruit tre	oot-			
 Land rates to be compensated in fit 	ill (i.e 100%) as determined by the rates fixed.	SI. No.	LIPLATO.	Fruit bearing (₹) Fixed rate	101.04	-Fruit bearing (₹) d rate
 Damage around the RoW corridor 	to be compensated as per existing rates	1.	Orange	1400 /tree	700	tree "
 For approach road, damage competition 	nsation will be given to the landowners	2.	Pear	350 /tree	175	tree
	Contention of Contention and Contention	3.	Banana	350/tree	175	tree
		4.	Guava	350/tree	175	tree
		100 M 100	Blaccala	5200 per acre of ₹.	5/- per Sam	e rate as fruit
Table for DoW width for different in	# 2710	5.	Pineapple	sucker	bea	ring
Table for RoW width for different voltage	lines:		Mango		bea	ring /tree
	n naen	5. 6. 7.		sucker	bea 350	M* -
Table for RoW width for different voltage Transmission Voltage in kV 66 kV	Width of Right of Way in metres	6.	Mango	sucker 875/tree	bea 350 175	/tree
Transmission Voltage in kV 66 kV	n naen	6. 7.	Mango Jack Fruit	sucker 875/tree 350/tree	bea 350 175 175	/tree /tree
Transmission Voltage in kV	Width of Right of Way in metres	6. 7. 8. 9.	Mango Jack Fruit Peach	sucker 875/tree 350/tree 350/tree 350/tree	bea 350 175 175, 175,	/tree /tree /tree
Fransmission Voltage in kV 66 kV	Width of Right of Way in metres	6. 7. 8. 9.	Mango Jack Fruit Peach Plum ries of land: Category	sucker 875/tree 350/tree 350/tree 350/tree	bea 350 175 175, 175, 175, Rate per Sqft (९)	/tree /tree /tree
Transmission Voltage in kV 66 kV 132 kV 220kV	Width of Right of Way in metres 18 27 35	6. 7. 8. 9. Catego Sl. No. 1.	Mango Jack Fruit Peach Plum ries of land: Category Terrace / Residentia	sucker 875/tree 350/tree 350/tree 350/tree	bea 350 175 175, 175, 175, 175, 175, 175, 175,	/tree /tree /tree
Fransmission Voltage in kV 66 kV 132 kV	Width of Right of Way in metres 18 27	6. 7. 8. 9. Catego 5l. No. 1. 2.	Mango Jack Fruit Peach Plum ries of land: Category Terrace / Residentia Developed Area	sucker 875/tree 350/tree 350/tree 350/tree	bea 350 175 175, 175, 175, 175, 175, 175, 175,	/tree /tree /tree
Transmission Voltage in kV 66 kV 132 kV 220kV	Width of Right of Way in metres 18 27 35 46	6. 7. 8. 9. Catego Sl. No. 1. 2. 3.	Mango Jack Fruit Peach Plum ries of land: Category Terrace / Residentia Developed Area Commercial Plantat	sucker 875/tree 350/tree 350/tree 350/tree	bea 350 175 175, 175, 175, 175, 175, 175, 175,	/tree /tree /tree
Transmission Voltage in kV 66 kV 132 kV 220kV 400 kV S/C 400kV D/C	Width of Right of Way in metres 18 27 35	6. 7. 8. 9. Categoo Sl. No. 1. 2. 3. 4.	Mango Jack Fruit Peach Plum ries of land: Category Terrace / Residentia Developed Area Commercial Plantat Jhum	sucker 875/tree 350/tree 350/tree 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	kate per Sqft (₹) Rate per Sqft (₹) ₹. 150 ₹. 95 ₹. 70	/tree /tree /tree
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Notification/Fixation of Rate by Concerned Authority



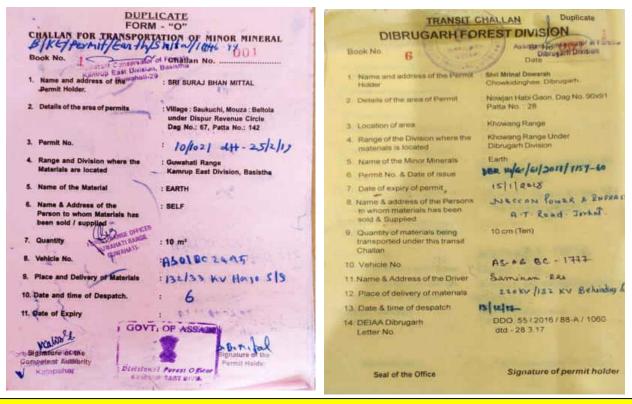
Verification of Documents of land owner/affected person for online transfer of compensation amount



Kohima: Nagaland

Appendix- 5: Details of Borrow Area Management /Improvement

SI No.	Name of Substation	Total Volume (m ³)	Coordinates	Source
		(111)	Assam	
1	132/33 kV Tangla	7040	26°39'54.65"N	Site developed as pond after due
			91°54'02.66"E	consent/agreement with land owner.
2.	220/132 kV Behiating	20550	27°18' 44.57"N 94°53' 15.54"E	Existing/registered borrow site
3.	132/33 kV Sarupather	8000	26°13' 8.01"N 93°50' 57.4"E	Existing/registered borrow site
4.	132/33 kV Silapather	13396	27°32'18.67"N 94°42'39.49"E	Site developed as pond after due consent/agreement with land owner.
5.	132/33 kV Chapakhowa	10955	27°55'27.73"N 95°42'58.64"E	Site developed after due consent/ agreement with land owner.
6	132/33 kV Tezpur	14186	26°45'02.9"N 92°50'04.2"E	Site developed as pond after due consent/agreement with land owner.
7	132/33 kV Teok	10405	26°43'37.98"N 94°37'08.88"E	Existing/registered borrow site
8	132/33 kV Hazo	13400	26° 8' 29.02"	Existing/registered borrow site
9	132/33 kV GMC	9100	91° 35' 8.82"	
10.	132/33 kV Paltan Bazaar	2265		
			Meghalaya	
1	33 kV Mawkynrew	1068	25°24'47.89" N 91°59'52.16" E	Community land utilized for development of road in agreement with community.
			Tripura	
1.	132/33kV Mohanpur	1344	23°57'0.57'' N 91°23'4.05'' E	Borrowed earth from private land with due consent from land owner.
2.	132/33kV	814	23°27'35.76" N	
	Rabindranagar		91º16'22.36" E	
3	33/11kV Golaghati	3182	23º41'47.50'' N 91º21'59.80'' E	
4	132/33kV Jirania Ext.	450	23°48'32.40"N 91°26'09.60"E	
			Manipur	
1.	Andro SS	7404	24°45' 58"N 94°14'26"E	Borrowed earth from private land with due consent from land owner
2.	33/11 kV Hiyangthang	4345	24°46'49.44"N 93°47'24.87"E	
3	Lamphel SS	3357	24°46'49.44"N 93°47'24.87"E	
4	Top-Khongnangkhong	2429	24°47'47.68"N 93°59'33.88"E	
5	Kwakta	571	24°46' 56.11"N 93°52' 11.47"E	
6	Sanjenbam 33/11	3894	24°49'38.43"N 94°21'18"E	



Sample of Transit challan of borrowed earth for 132/33 kV Hazo & 132/33 kV Sarupathar Substation

101-20-20-2029 THE STAL AND Government of Manipur Office of the Divisional Forest Officer: Central Forest Division MUNIT TALET IMPHAL: MANIPUR -CERTIFICATE True: with Storen Take Imphal, the 21st March, 2018 Divesion, Gost VIDER: No.5/12/2016-17/DFO/C: This is to certify that DGM, Ch. Lokendra Singh M/S WIN Power Infra Pvt. Ltd, Yurembam, Imphal West has paid Rs. 2.888/- (Rupees two thousand eight hundred eighty eight) only being the royalty and GST for 110 cum of earth for filling at areas series taison to anarthe praticit and and 33/11 KV Power Sub Station at Top Khongnangkhong, Imphai vide T.R. V No. 465926 dt. and for with wamp. Therea converter fation for the שובחונים שליבי דעונים שלי שווי אילי ביולו ביווואווא אלאני 20/03/2018. ्रिति मान वाडाल ल्यांस अन्द्र दुम्रीत उड्डा यह इन्द्र रवारता अप्रभा निर्दाण राम जा। जिस भावमाव भाषिष onorm (r.g.) (L. Joykumar Singh) Divisional Forest Officer, Central Forest Division Government of Manipur आधारिक साध्य विजनन निर्णत निजनाम-T.R. 5 No. 465326 Chier - destants , shown an and, भ्याहरूम - आहरु . अप्रीच्या - भूर्व तर्हाला With the No (Win power prt. Hig) เสขารี ระเบิดา - กิจเรากิญา Dated ine sum actupees top the wand cift handed In cash of a account or eight articles By cheque in account or eight articles of darge In paymontal of the cart, 110 eur. 346 Royalty - Ro. 2750) 2:5/1057Rs. 691 2:5/20157Rs. 691 12112 62810 2888/2 -17-14 -11X Initial Com Initial 20/3/19 Designation **Consent from land owner for Borrowed Earth**



Development of Borrow Area into a Pond as desired by Local Villagers near 132/33 KV Tezpur Substation



Borrow Earth Site for Lamphel & Andro site in Manipur

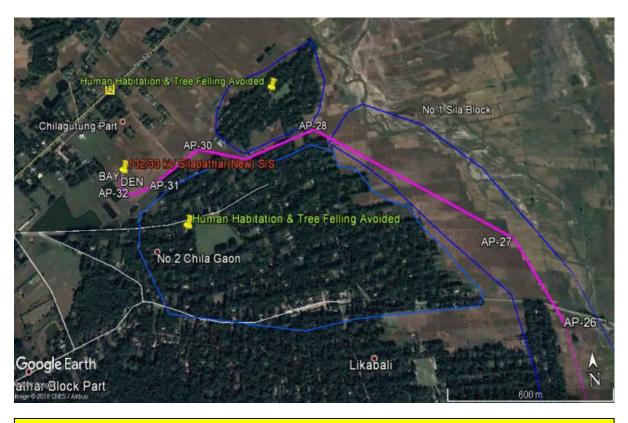
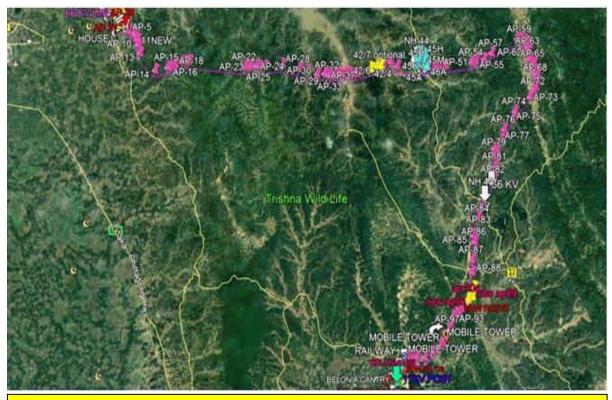
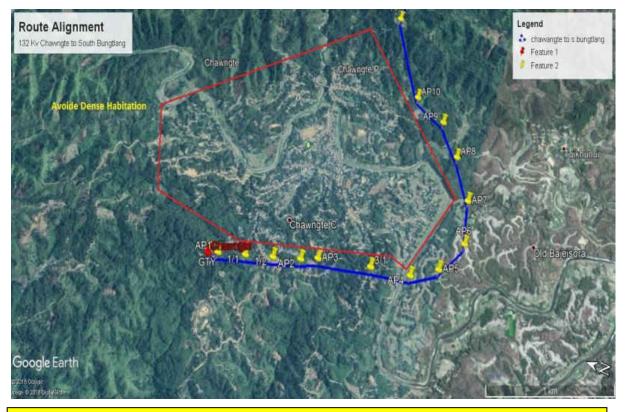


Plate 7: Avoidance of Environmentally and Socially Sensitive Areas

Avoidance of Human Habitation & Tree Felling in Dhemaji-Silapather 132kV line in Assam



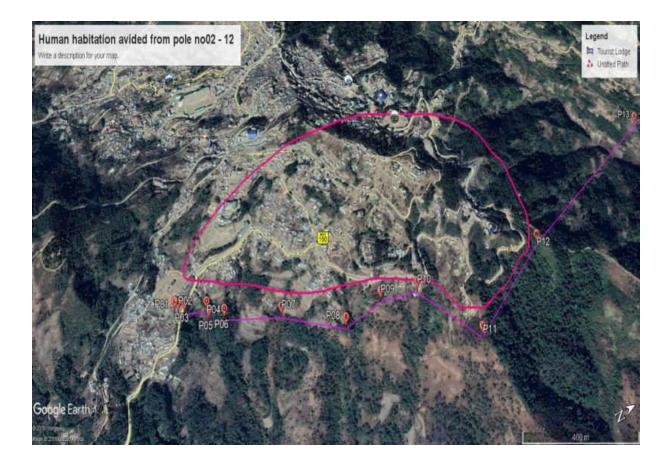
Complete Avoidance of Trishna Wildlife Sanctuary by adopting even more circuitous route (AP-14 to AP-109)for Rabindranagar- Belonia 132kV line in Tripura

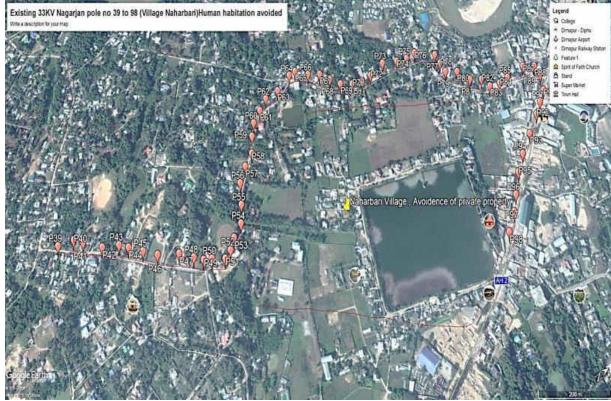


Avoidance of dense habitation area (AP-1 to AP-15) for Chawngte-S. Bungtlang 132kV line in Mizoram

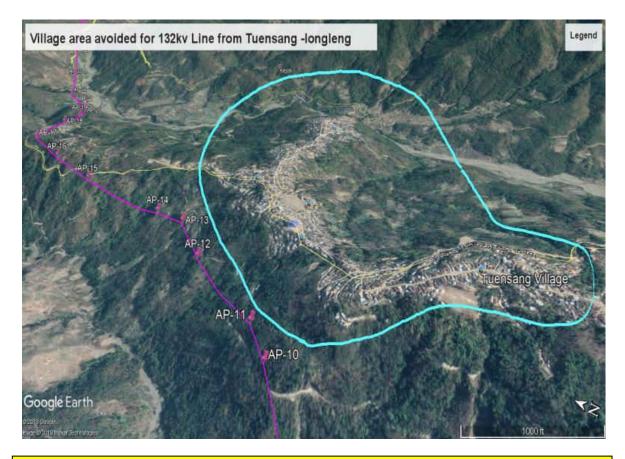


Avoidance of habitation area (AP-1 to AP-16) for West Phaileng- Marpara 132kV line in Mizoram

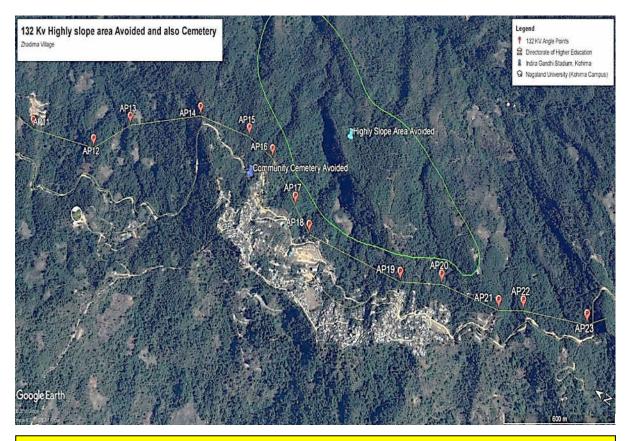




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Avoidance of habitation area for Tuensang – Longleng Complex 132kV line in Nagaland



Avoidance of Steep slope area and Cemetery (AP-14 to AP-24) for New Kohima – New Secretariat Complex 132kV line in Nagaland

Plate 8 : Sample Photos of Integrated Drainage and Sewage Management Measures at Substation



Septic Tank & Soak Pit at 33/11 Lalmati substation, Nagaland



Integrated Drainage System at 33/11 Lalmati substation,

Plate 9: NoC/Consent from ADC/VDC/Land Owners

OFFICE OF THE **PONGO VILLAGE COUNCIL** DIST. LONGLENG : NAGALAND PIN - 798625 Ref No Pong - 2020 Same 22/09/2020 NO-OBJECTION CERTIFICATE This is to certify that the construction of upcoming 132 KY Line Tuensang to Longleng from AP-102/0 to AP-100/0 under Jurisdiction of Pongo village council. Hence the village authority has duly issue no-objection certificate for enecution of work anytime of your own convenience. wishing the protect a grand success. K. CHUNGRA 22-9.02. OFFICE OF THE IMCHONG VILLAGE COUNCIL B.P.O Sakshi HQ. Dist. Longleng - 798625 : Nagaland Date.18/11/2020 Ref. No. OBJECTION CENTIFICATE. This 18 de Cestily that the construction of upcomming 132 KV. Line Twensong & Congleng grow 76/0-TO-83A/0. Under the junistiction of yinodrey village Council. Hence the village guttohity has duly 12sue "No objection Cestific - Te' F55 erection duly 12sue "No objection Cestific - Te' F55 erection g book any time as your son Convenience. Wishing the project a grant Success. CHairman Timichong village county. Chairman Vimaking Village Council

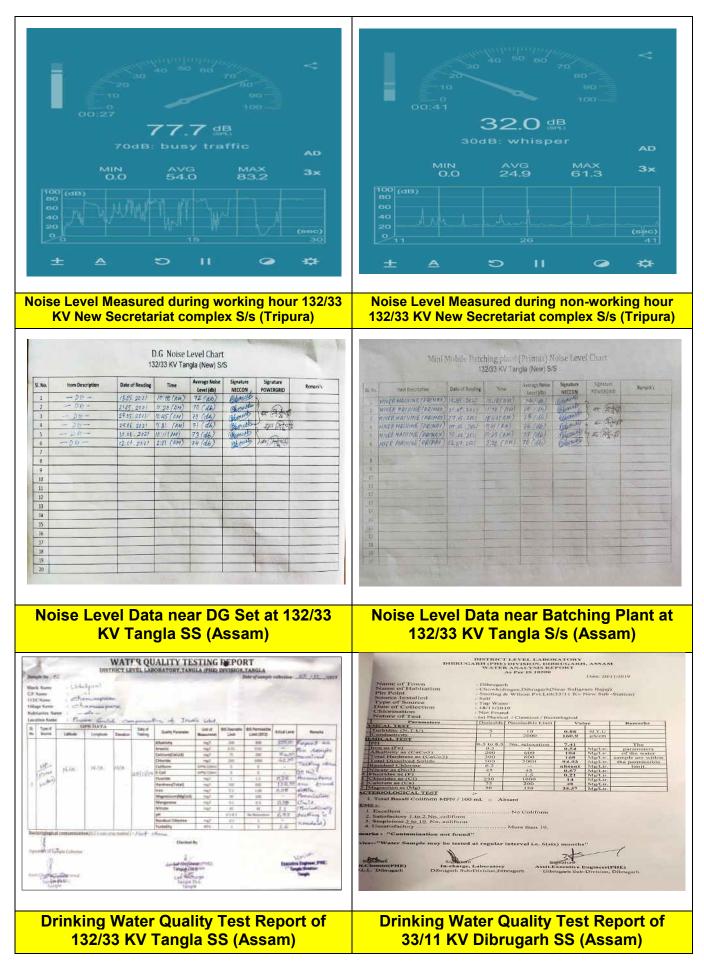


Plate- 11: Community/Villagers Safety



Display of Signage Board



Proper Barricading of Work Area



Safety Awareness and Information dissemination before start of work

Plate -12 : Permission Road/ Rail Crossing, Site Specific Traffic Management Plan for UG Cable lying work

		Contract in the
c	IFFICE OF THE EXECUTIVE EN	OVERNMENT OF ASSAM GINEER P.W.DIRGADS GUWAHATI CITY DIVISION NO I MUNIMAIDAN GUWAHATI 21
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16	The Asst General Manage Power Und Corporation of Hinyat Centra Flat No. 102.0 Closeanall-781001	ridia Limited
5-0952	method of Pawer Ond con 1) (r/152/03 KV Pertentiace	aging for laying of 33 KV underground cable_HDD/neochrass sorabon of Indie Limited - I SS (New) to 33 KV Judge Field SS(Existing (060- to (00000000 Road Length = 903 00 M).
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	Langin = 2798 00M	
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V	Vitri ruference to the subject cited the applicationed road is here	above, permission for Pite Soul digging for laying of Optical Floor ing accorded subject to the following conditions.
2 64 51 60 5 5 4 H	lowarten City Sub-Dwardn No. I G miler, eller the permission will be a returner a movement & vehicul addution of work. Annages: if ally caused to the innomative and to be brought to it wile executing the work, if any co- re damaged during execution of s he exclanated earth and debris th in contraction of your adris, you florats. Butting electron of your adris you florats. Butting electron of your adris you florats. Butting electron of your adris you florats. Butting electron of the share in a floration of the chamber reality even of the chamber allow maintenance of the chamber if your company organization.	out in comutation with the Asit. Executive Engineer, PWC (II) owahai-21 within 60 thely days from the state of permission ancented 6 amount deposited against restoration to the other all within the trevenient and/od hot be distuided at any line during road during and after execution of work, are to be restored songmal position at your own may and cost. die or pool last underground by the other departmental agencies work, responsibility will rest solerly upon you are in are to be removed immediately as to inform this office immediately for point impediately with our elef possible damage to the road while executing the work at softy measures should be taken, pertoxianly during right and wroward incorrect during execution the state years should be taken, pertoxianly during right and wroward incorrect during execution the state two the chambers will be the scie responsibility for the same level with the Road pavement. and the same level with the taken being responsibility for the chambers will be the scie responsibility.
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OFFICE OF THE DEPUTY COMMISSIONER OF POLICE, TRAFFIC GUWAHATI, ASSAM

Memo No. - GTP / DCP (Tr.) / 2020 / 10 / 69 ,

Dated:29.01.2020

To

The Chief Manager,

Power Grid Corporation of India Limited,

Guwahati.

Sub: - Underground cable laying works at Kamakhya – Paltanbazar Road – regarding. Ref. - NERPSIP/GHY/UG cables/Traffic/2020 dated: 29.01.2020.

Sir,

With reference to the subject cited above, it is requested that the cable laying work may be done only during the night hours after 10.00 pm in view of the heavy traffic on that route. Further, all necessary precautions should be taken and signages put up for safety and security of the road uses and workers.

Yours Sincerely

Deputy Commissioner of Police, Traffic,

Guwahati, Assam

Memo No.: - GTP / DCP (Tr.) / 2020 / 10 /

Dated: .01.2020

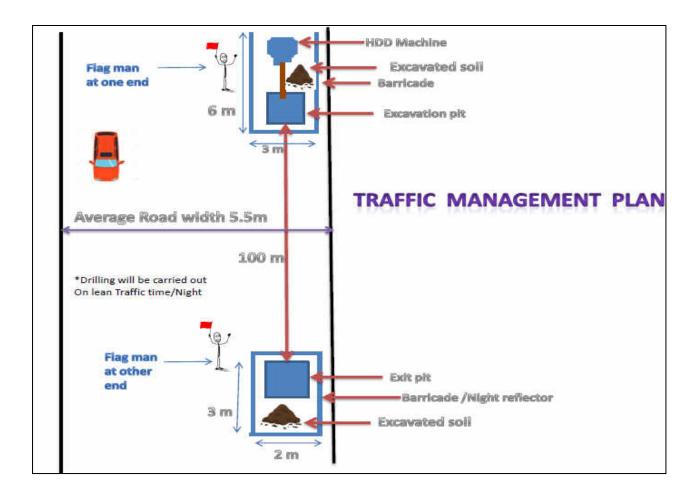
Copy for information and necessary action to:

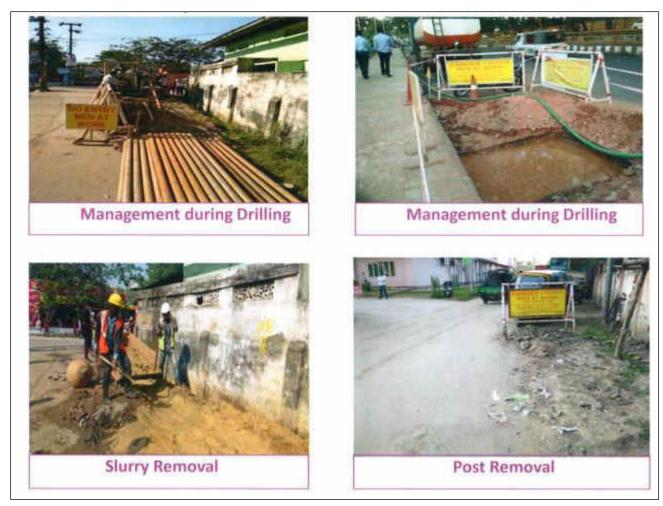
1) Inspectors of Traffic, Panbazar/Pandu Divisions.

2) In-charges, Traffic, Paltanbazar/Panbazar/Bharalumukh/Jalukbari P.Ss

Deputy Commissioner of Police, Traffic,

Guwahati, Assam





NERPSIP Semi-Annual Safeguard Monitoring Report for period January-June, 2021



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ইয়াৰ প্ৰথা সালোমালোকক আমাৰ কোম্পানীৰ ভালৰ পৰা জন্মায द्र्यागद/सद्रागदा, হেচাৰে যে আচলমালেকৰ লগতে মুহেৰে মানুৱনৰ আৰু মাটিৰ ভালেৰে প্ৰধনা অসুবিধাৰ মন্দ্ৰণীন হ'ব পাৰে।

সেয়াড় এমাৰ জনৰ গৰা বিনপ্ৰ থাবুৰোধ যে আপোনালোকেও ফন গমাই ন পূর্বার এবে আ এরগার্কালে সমাপ্ত হোৱান ক্রেয়ার সহায়- সহায়ালিকা Materi 52-

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महानग्र/महानग्रा,

ধ্যাৰ থানা আলেম্যানোচাঃ আমাৰ ডেম্পেটাৰ প্ৰাক্ত পৰা থকাৰ faster of antwortences while grants large south while while BUT ME IAPDOL & POCH 4, SEAR LASSI DATE OF FULLY চলিন। থালকে প্রহা হয় ১৯/১২/৯৭ ্রানিয়ার পলা চ ৯৯/৫*৬/ ৯৮ - - - আৰম্যৰ মালোন্দৰাজ্য প*্ৰাৰৰ তলাত ৬*শ*ত সামান্য অসুবিধায় সন্মুণীন হ'ব পাৰে

সেয়েহে আমাৰ পালৰ পৰা দিনস অনুবোগ ৫) আলোন্স লোকে এন রমার্হিনি মুচাকরালে আঁরি সেমারাজে প্যান্ত হোমার হেয়া ও সংগ্রা প্রান্ত হোমার सांसगर रहि---

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Consent Letter The undersigned hereby give my consent for disposal of mud in the designated area(10.5.12.13) within my boundary premises situated at House No. 2 -Rup rager har - 32 The disposal of the mud is required for the purpose of land development in that atea as per my own requirement. A.M. 0154970707 Witness Signature of owner 1. (A-) Operate Prover Levels Bahard Schler Hoper 2 Witten training

खनुवासी, राजप्राणि - १



Plate -13: Measures undertaken at construction Sites in response to COVID-19

- 1. Arrangement of RT PCR /Rapid Antigen test for the labour as per requirement based on symptoms, on contact tracing, upon new workforce joining the existing workforce or upon completion of the quarantine period, as required.
- 2. If any labour need to be quarantined or kept in isolation, arrangements have been made for their medicare, accommodation and food arrangements during such period of isolation/quarantine.
- 3. If the construction works have been stopped due to COVID conditions in the local areas and labour have to be kept idle, providing of food/amenities during such period are being ensured.
- 4. Sanitizers, Face masks, Gloves and other COVID related PPEs are provided for construction workers along with employees. Thermal scanning is being done on daily basis.
- 5. Vaccinations are being administered by organizing camps at site or through the facilities available nearby. 106 labours (>45 years) have been vaccinated so far.
- 6. Further based on availability, separate camps are being arranged for vaccination for contract labours / employees for the age group of 18-45 years.

State	Name of Site/ Location	Total no. of Workers engaged	No. of Worker identified with COVID symptoms	No. of test carried out	No. of confirmed cases	No. of recovered cases	No. of Active cases	No. of Deceased
Manipur	New 132 kV D/C Imphal- Ningthaukhong	20	10	10	0	NA	NA	NA
Meghalaya	33/11 kV Mawpat	8	1	8	1	1	NA	NA
Nagaland	132/33 New Sec. Complex	52	2	21	2	2	NA	NA
	132/33 Pfutsero	12	0	2	0	NA	NA	NA
	132/33kV Longleng	46	3	12	0	NA	NA	NA
Total		138	16	53	3	3	0	0

Details of COVID- 19 Test conducted during reporting period







Food items distributed to stranded labours during Covid-19 lockdown at Mawngap GIS Substation (Meghalaya)



COVID awareness at 132/33kV Mokokchung (Nagaland)

R.S. BOYLOFASSAM Dis -6/77/21 SRIGOURICHC. OPD./IPD./N.Say/Lab DTC (Registration Card) Name of Paisson Set 2 1/23 and Are - 1/35 are: M/P Name of Paisson Set 2 1/23 and Are - 1/35 are: M/P Regist For R. - 15 Regist For R. - 15 Regist For R. - 15 Regist for the set 2 1/2 and Are - 1/35 are: M/P Regist For R. - 15 Regist for the set 2 1/2 and Are - 1/35 are: M/P Regist For R. - 15 Regist for the set 2 1/2 and Are - 1/35 are: M/P Regist For R. - 15 Regist for the set 2 1/2 and Are - 1/35 are: M/P Regist for the set 2 1/2 and Are - 1/35 are: M/P Regist for the set 2 1/2 are - 1/35 are - 1/35



Awareness program and distribution of hand sanitizer & masks to workers at LILO of 132 kV D/C MLHEP-Khliehriat line (Meghalaya)



COVID awareness at 132/33kV Gokulnagar (Tripura)

Provisional Certificate for COVID 19 Veccination - T Down

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COVID Test Report of workers working at 132
kV Imphal- Ningthoukhong TL (Manipur)COVID Vaccination certificate of workers
working at 132 kV Imphal- Ningthoukhong TL

DOWIN

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