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

(Reporting Period: July - December, 2020)

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)

REF: SEMI ANNAUAL REPORT-5 /2021/1

8 March, 2021

	ABBREVIATIONS					
ADC		Autonomous District Council				
APDCL	-					
AFDCL	-	Assam Power Distribution Company Limited				
	-	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 Implementation Unit				
POWERGRID	-	Project Implementation Onit 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 Environment 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 July-December, 2020 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, inspite 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, clearance/permission 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. 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. 23.167 million were paid to 594 affected farmers/land owners till reporting period. Similarly, a total amount of Rs. 155.92 million has already been paid to 858 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 impact on environmental attributes like air, water, soil etc. As anticipated, some impact like loss of vegetation due to clearing of the Rightof-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 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 and other protection measures etc. are being 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.

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 December 2020, only of 4 cases out of total 24 complaints remain open/are being negotiated.

Public consultation & information dissemination is an indispensable part of project cycle. As stated in ESPPF, public consultation using different technique 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 3939 persons participated in safeguard consultation process including 891 female participants, which is approx. 22.62% 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 **Environment 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 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 July- December 2020 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)				D	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. as per NOA	Anticipated/ Revised Date of Completion	Progress (in%) as on
		AS	SAM			
1	TW 02	1 no. 220 kV Line (50 km)	10 Ocť 17	Apr'20	Mar'21	55%
2	TW 04	1 no. 132 kV line (36 km)	8 Sept'17	Mar'20	Mar'21	50%
3	TW 05	1 no. 132 kV line (53 km)	1 Sept'17	Mar'20	Mar'21	55%
4	TW 07	1 no. 220 kV (33 km) & 7 nos. 132kV line (53 km)	30 May'18	Nov'20	Mar'21	10%
5	P 01	Pile foundations	18 Sepť17	Mar'20	Mar'20	65%
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	Mar'21	62%
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	Mar'21	60%
8	SS 03	2 nos. new 132/33 kV, 2 nos. Ext. & 1 no. Aug of 132/33 kV substation.	12 Aug'16	Aug'19	Mar'21	55%

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.

9	SS 04	3 nos. new substations (1no. 220/132/33kV & 2 nos132/33kV) and 1 no. Extn. of 132/33 kV	6 May'16	Mar'19	Mar'21	50%
	D 140.04	substation			5 10 (000/
10	DMS 01	4 nos. new 33/11kV substation & 7 nos. 33 kV lines (119 km).	20 Oct'16	Jun'19	Dec'21	60%
11	DMS 02	3 nos. new 33/11kV substation & 11 nos. 33 kV lines (146 km)	23 Dec'16	Jul'19	Mar'21	60%
12	DMS 03	5 nos. new 33/11kV substation & 9 nos. 33 kV lines (134 km)	23 Dec'16	Sept.'19	Mar'21	55%
13	DMS 04	4 nos. new 33/11kV substation & 11 nos. 33 kV Underground cable lines (80 km)	8 July'16	Sept'19	Dec'20	50%
		MAN	NIPUR			
14	TW 06	4 nos. 132 kV line (85 km) & renovation of 1 no. existing 132 kV line (91 km) and stringing of 2 nd circuit in exi. 132kV line (78 km)	31 May'18	Nov'20	Nov'20	50%
15	SS 01	1 no. new 132/33kV & 2 nos. Ext./Aug. of substations.	3 Jan'18	July'20	Nov'20	30%
16	SS 02	2 nos. Ext. & 2 no. Aug. of 132/33 kV substation.	8 Dec'17	Jun'20	Dec20	55%
17	SS03	1 no. new 132/33 kV & 1 no. Ext & 1 no. Aug. of 132/33 kV substation.	3 Jan'18	July'20	Nov'20	30%
18	DMS 01	7 nos. new 33/11kV substation & 7 nos. 33 kV lines (68 km)	3 Mar'17	Dec'19	Dec'20	69%
19	DMS 02	2 nos. new 33/11kV substation & 2 nos. 33 kV lines (20 km)	16 Dec'16	Sep'19	Commiss ioned	100%
20	DMS 03	2 nos. new 33/11kV substation & 2 nos. 33 kV lines (23 km)	18 Mar'16	Dec'18	Commiss ioned	100%
21	DMS 04	2 nos. new 33/11kV substation & 2 nos. 33 kV lines (20 km)	18 Mar'16	Dec'18	Commiss ioned	100%
		MEGH	IALAYA			
22	TW 01	1 no. 220kV line (122 km)	29 Jun'16	Jun'19	Mar'21	50%
23	TW 02	2 nos. 132kV line (103 km)	29 Jun'16	Jun'19	Dec'20	80%
24	SS 01	2 nos. new & 1 no. Ext. of 132/33 kV substation.	Ū	Aug'19	Dec'20	62%
25	SS 02	2 nos. new 1 no. Ext. of 220/132 kV substation		Jun'19	Dec'20	70%
26	DMS 01	4 nos. new 33/11kV substation & 4 nos. 33 kV	13 July'16	Apr'19	Mar'21	73%

		lines (56 km)				
27	DMS 02	3 nos. new 33/11kV	27 May/16	Feh'10	Sep'20	73%
21		substation & 6 nos. 33 kV	27 Way 10	16013	0ep 20	1370
		lines (63 km)				
28	DMS 03	· /	17 May'16	Feb'19	Sep'20	74%
20		substation & 7 nos. 33 kV	Tr May TO	10010	00020	1 4 70
		lines (79 km)				
			PURA			
29	TW 01		12 June'17	Feb'20	Mar'21	15%
30	TW 02	, , , , , , , , , , , , , , , , , , ,	12 June'17	Feb'20	Jun'21	20%
31	TW 03	, , , , , , , , , , , , , , , , , , ,	12 June'17	Feb'20	Mar'21	35%
32	SS 01	4 nos. new 132/33 kV	4 Nov'16	Nov'19	Mar'21	60%
		substation.				
33	SS 02	2 nos. new & 1 nos. Ext. and	4 Nov'16	Nov'19	Mar'21	60%
		2 nos. Aug. of 132/33 kV				
		substation.				
34	SS 03	3 nos. new & 1 no. Ext. & 3	4 Nov'16	Nov'19	Mar'21	55%
		nos. Aug. of 132/33 kV				
		substation.				
35	DMS 01		20 Feb'17	Nov'19	Mar'21	36%
		substation & 9 nos. 33 kV				
		lines (121 km)				
36	DMS 02	6 nos. new 33/11kV	20 Jan'17	Oct'19	Mar'21	36%
		substation & 11 nos. 33 kV				
07		lines (181 km)	00 5 1 147	NI 140	D 100	000/
37	DMS 03	5 nos. new 33/11kV	20 Feb 17	NOV 19	Dec'20	32%
		substation & 11 nos. 33 kV				
20	DMS 04	lines (137 km) 10 nos. new 33/11kV	20 Jan'17	Oct'19	Dec'20	39%
30	DIVIS 04	substation & 17 nos. 33 kV	20 Jan 17	00119	Dec 20	39%
		lines (198 km)				
30	DMS 05	6 nos. new 33/11kV	20 Feb'17	Nov'19	Dec'20	38%
00		substation & 9 nos. 33 kV	2010011		00020	0070
		lines (128 km)				
			ORAM			
40	TW 01	3 nos.132kV lines (84 km)	20 Sept'17	Mar'20	Dec'21	15%
41	SS 01	1 no. new & 1 no. Ext. of	2 Nov'17	May'20	Dec'21	15%
		132/33 kV substation.				
42	SS 02	3 nos. new 132/33kV & 1	13 Ocť 17	Apr'20	Dec'21	22%)
		no. new 33/11 of substation.		-		,
		1 no. 132kV line (50 km) & 1				
		no 33kV line (5 km)				
			ALAND			
43	TW 01	1 no. 220kV line (92 km)	20 Sept'17	Mar'20	Mar'21	35%
44	TW 05	1 no. 132kV line (28 km)	21 Sept'17	Mar'20	Mar'21	40%
45	TW 06		31 May'18	Nov'20	Mar'21	30%
46	SS 01	2 nos. new 132/33 kV	5 Dec'17	Jun'20	Nov'20	35%
		substation.				
47	SS 02	1 no. new 132/33 kV & 3 nos.	30 Nov'17	May'20	Nov'20	30%
		ext. of substation.				
48	SS 03	1 no. new 132/33 kV & 1 no.	14 Dec'17	Jun'20	Dec'20	35%
		ext. (220/132 kV) of				

		substation				
49	SS 04	1 no. new & 1 no. ext. of	13 Dec-17	Jun'20	Dec'20	45%
		132/33 kV substation				
50	DMS 01	2 nos. new 33/11kV	12 Feb'18	Nov'20	Nov'20	40%
		substation & 3 nos. 33 kV				
		lines (2.5 km)				
51	DMS 02	3 nos. new 33/11kV	11 Jan'18	Ocť20	Ocť20	40%
		substation & 5 nos. 33 kV				
		lines (59 km)				
52	DMS 03	3 nos. new 33/11kV	22 Sep'16	Jun'19	Dec'20	80%
		substation & 2 nos. 33 kV	-			
		lines (5 km)				
53	DMS 04	2 nos. new 33/11kV	22 Sep'16	Jun'19	Oct'20	80%
		substation & 1 no. 33 kV				
		lines (10 km)				

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 Agreement (FA) 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 subsection, 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 others safeguard documents prepared/being prepared. For details refer Table-1 .

Description of Covenants	Reference	Status of Compliance
 (together, the "Safeguard Documents"), in each case in a manner and in substance agreed with the Bank; (b) make its best efforts to ensure that the Participating States and their respective Power Utilities/ Departments carry out their responsibilities under their respective Implementation/ Participation Agreements in accordance with the objectives, policies, procedures, time schedules, compensation arrangements and other provisions set forth in their respective SS-ESPPFs, IARs, EMPs, RAPs, CPTDs and TPDPs; and (c) refrain from taking any action which would prevent or interfere with the implementation of the Safeguard Documents by any of the Participating States, their Respective Power Utilities /Departments and/or the Project Implementing Entity itself, including any amendment, stay, suspension, waiver, annulment and/or voidance of any provision of the Safeguard Documents, whether in whole or in part, without the prior written 		Being complied. No such safeguard issues encountered till reporting period. Will be complied if such situation warrants.
agreement of the Bank. With respect to each transmission line, substation or distribution network to erected/built be or augmented under Component A of the Project, the Project Implementing Entity shall refrain from commencing any civil works or undertaking any activities ancillary thereto, until and unless:	PA, (Schedule), Section- I, E, Para 2	
 (a) the proposed activities/civil works have been screened by the Project Implementing Entity (in coordination with the respective SPCU), in accordance with the guidelines, standards and procedures set forth in the SS-ESPPF of the Participating State in which the asset will be located; (b) the respective IEAR(s), EMP(s), RAP(s), CPTD(s) and/or TPDP(s) as required for 		Complied/ Being complied.
CPTD(s) and/or TPDP(s), as required for such transmission line, substation or distribution network, pursuant to the respective IEAR(s), EMP(s), RAP(s), CPTD(s) and/or TPDP(s), as required for such transmission line, substation or distribution network, pursuant to the applicable SS-ESPPF has/have been prepared and submitted to the Bank for distribution network, pursuant to the		Complied. For details refer Table- 1.

Description of Covenants	Reference	Status of Compliance
 applicable SS-ESPPF has/have been prepared and submitted to the Bank for review; and the Bank has notified the Project 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. 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. All approved safeguard reports stand disclosed publicly on website of POWERGRID & State Utilities. Below is the link to access such reports; <u>https://www.powergridi</u> <u>ndia.com/ner-</u> <u>agreements-and-mous</u> 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 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 and record keeping procedures agreed with	PA, (Schedule),	Complied/ Being
the Bank and adequate to enable the Project Implementing Entity and the Bank to supervise and assess, on an ongoing basis, the implementation of/compliance with the	Section- I, E, Para 6	complied.
 the implementation of/compliance with the Safeguards Documents, as well as the achievement of the objectives thereof; (b) furnish to the Bank, throughout the period of Project implementation quarterly reports, assessing compliance with the Safeguard Documents, monitoring the efficacy of the social and environmental management measures, and evaluating the results of the mitigation or benefit enhancing measures applied; and (c) unless otherwise agreed with the Bank, engage independent consultants with qualification and experience, and under terms of reference agreed with the Bank, in order to: (i) carry out by no later than: (A) one hundred twenty (120) days as of completion of Stage-I clearances under the Forest (Conservation) Act, 1980 if the activities involve designated forest land; or (B) six (6) months after the contractors' completion of the detailed survey for final placement/route alignment for any civil works, in the case of activities not involving designated forest land, a final environmental assessment report ("FEAR") setting forth the actual impact of 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 		Quarterly Progress Reports including updates on safeguards indicators & forest clearances being submitted to the Bank on a regular basis. The instant report is a comprehensive report exclusively on E & S safeguard issues which has been prepared at every six months and submitted to Bank as per agreed framework. Being Complied. Independent Agencies/ Consultants for FEAR already appointed for all 6 States. For details refer Table-1
in accordance with the processes and requirements set forth in the respective SS- ESPPF(s) and IEAR(s); and (ii) thereafter, within fifteen (15) days of 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		For details of FEAR status refer Table-1 .
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			oroval/Dis	
	Disclosure)	Subprojects	IEAR	CPTD	FEAR
		District & Brief			
		Scope of works			
Assam	29 th June	Dhemaji	13 th May	22th June	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. Consultant has
		Tinsukia &	8 th July	3 rd Oct.	submitted Draft reports
		Dibrugarh	2015	2018	on 10 th May'19, 21 st Oct'
		1 no. each 220kV &			19 & 7 th Apr.'20, 2 nd Aug.
		132 kV and 4 nos.			20 but were not accepted
		33 kV line,			by Bank/ POWERGRID
		2 nos. 132/33kV &			due to very poor-quality
		3 nos. 33/11 kV			report. Now, Consultant
		substation			has submitted revised
					reports on 5 th Jan.'21
					which are under review of
			ooth		Bank.
			20 th	N.A.	Identification of
		2 nos. 132kV & 11	July	(UG	Independent Agency
		nos. 33 kV	2015	lines	under progress.
		Underground line,		only)	However, considering
		2 nos. 132/33 kV &			competency/

		5 m = 00/44 LV/			
		5 nos. 33/11 kV			understanding level of
		substation	a ath	1 Oth Law	the Independent
		Kamrup Rural,	14 th	18 th Jan	Consultants already
		Udalguri &	July	2021	engaged, POWERGRID
		Sonitpur	2015		requested Bank to let it
		1 no. 220 kV, 5			undertake the
		nos.132 kV & 12			preparation of these
		nos. 33 kV line,			reports in-house.
		1 no. 220/132kV, 3			
		nos. 132/33 kV & 5			
		nos.33/11 kV			
		substation	a — th		
		Golaghat, Nagaon,			
		Jorhat, Sibsagar &	2015	2020	
		Karbi-Anglong			
		2 nos.132kV & 8 nos.			
		33kV line,			
		2 nos. each			
		132/33kV &			
		33/11 kV			
	A the A	substation			
Manipur	•	• • •	15 th June		M/s R S Envirolink
	2015	Senapati &	2015	2020	Technologies Pvt. Ltd.
		Bishnupur			has been appointed as
		2 nos.132kV & 5			consultant in June 20.
		nos. 33kV line, 1 no.132/33kV & 5			Preliminary work like literature review/ baseline
		nos. 33/11kV			
					data/map preparation etc.
		substation Imphal East,	23rd July		has been already carried out by Agency & field visit
		Churachandpur,	2015		currently under progress.
		Thoubal &	2013		currently under progress.
		Tamenglong			
		Strg. of 2 nos.132			
		kV & reno. 1			
		no.132kV & 7			
		nos.33kV line, and			
		5 nos. 33/11 kV			
		substation			
		Imphal West,	8th Jan.		
		Imphal East &	2015		
		Tamenglong			
		1 no. 132kV & 3 nos.			
		33kV line,			
		1 no. 132/33 kV, 3			
		nos. 33/11kV			
		substation			
Meghal	29 th June,	West Garo Hills &	5th May		20 th Nov'19
aya	2015	South West Garo	2015	2018	
		Hills			
		1 no. 132kV & 6 nos.			
		33kV line,			
		1 no. 132/33kV & 3			

		nos 22/14LV/			
		nos. 33/11kV			
		substation	746 1.1.1.	OOth New	
		Ri-Bhoi and East		30 th Nov	-
		Khasi Hills	2015	2020	submitted to Bank on
		1 no. 220kV & 5 nos.			10th Dec. 20 for approval
		33kV line,			
		1 no. 220/132/33kV			
		& 4 nos. 33/11kV			
		substation			
		East Jaintia Hills	15 th Jun		Identification of
		(1 no. 132kV & 4	2015	2018	Independent Agency
		nos. 33kV line,			under progress.
		1 no. 132/33kV & 4			
		nos. 33/11kV			
		substation)			
Tripura	17 th June,	Gumti & South	15th Apr	29 th Dec.	M/s Green Circle Inc.,
	2015	Tripura	2015	2018	Vadodara appointed as
		5 nos. 132kV & 4 nos			Independent Consultant
		132/33 kV			for FEAR preparation in
		substation)			Dec 2018. Although the
		West Tripura,	18 th July	3 rd Sept.	Consultant has
		South Tripura,	2015	2018	submitted draft reports
		Sepahijala &	2010	2010	for both Tripura/ Mizoram
		Khowai			in Oct./Nov, 2020 (after
		(4 nos.132kV & 24			repeated reminders and
		nos.33kV line,			default notices from
		3 nos. 132/33kV & 1			POWERGRID) but same
		nos. 33/11kV			were not considered for
					review due to in-
		substation) Dhalai, North	13 th	15 th Oct.	adequate & poor quality
		-	July	2018	
		Tripura & Unakoti (2 nos.132kV & 8 nos		2010	report.
		N N	2015		
		33kV line,			
		1 no. 132/33kV & 6			
		nos. 33/11kV			
		substation)	o T th	·	
		Gumti & South	27 th	To be	
				submitted	
		(19 nos. 33kV line,	2015		
		1 no. 132/33kV &			
		14 nos. 33/11kV			
		substation)			
Mizoram	7 th July,	Lunglei &	17 June	30 th Nov	
	2015	Lawngtlai	2015	2020	
		(2 nos. 132kV & 1			
		no. 33kV line,			
		1 no. each			
		132/33kV &			
		33/11kV			
		substation)			
		Mamit	26 July	18 th Jan	
		1 no. 132kV & 33kV	2017	2021	
		line,			
					I

		3 nos. 132/33kV substation)			
Nagalan	10 th July,	Tuensang &	13 May	30 th Nov	Both FEARs cleared by
d	2015	Longleng	2015	2020	Bank and also stand
		(1 no. 132kV & 33kV			disclosed on 17 th Aug.
		line,			2020.
		1 no. 132/33kV			
		substation			
		Mokokchung,	27 th July		
		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**.

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	Name of the Line/Substation	Line Forest		
Pkg. No.		Length	(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	1	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		
	33 kV Tezpur - Dolabari	5		
	33 kV Shankardeo Nagar-Mailo	30		
	33 kV Behiating - Bogibil	10		
	33 kV Behiating - Dibrugarh	15		
	33 kV Dibrugarh - Romai	17	Nil	
	33 kV Chapakhowa – C'khowa	10		
-	33 kV Sarupathar -Barapathar	12		
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		
DMS03		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		
	33kV (UG) GMC- GMC	5		
DMS04	33kV (UG) GMC- Ullubari	10	Nil	
	33 kV (UG) P'bazar-Chabipool	4		
	33kV (UG) Paltanbazar-P'bazar	2		
	33kV (UG) Paltanbazar-J' field	5		
	33kV (UG)Paltanbazar-F'bazaar	4		
	33kV (UG) P'bazar – Ullubari	4		
		MANIF	PUR	
TW06	Renovation of 132kV Y'bam- Karong-Kohima	91	Nil	

Pkg.	Nows of the Line/Output of the	Line	Forest	Otatus (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.
SS3	132/33 kV Tamenglong		1.831/ Un- classed Forest	Forest proposal submitted on 29.05.19. However, DFO raised certain queries on 16.07.19 which are being complied.
	33kV Andro-Yairipok	15		
	33kV M'sangei-Pishum(UG+OH)	10		
	33kV Mongsangei -Hiyangthang	4		
	33kV Iroisemba - Takyel	7	Nil	
	33kV Top Khongnangkhong- Porompat	7		
DMS01	33kV Iroisemba-Lamphel	10		
DIVISOT	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 forwarded to DFO on 19.10.18 which is under formulation stage.
DMS02	33kV Moirang- Kwakta	10	Nil	2
DIVISUZ	33kV Nambol - Leimapokpam	10	INII	
	33kV Sanjenbam -Porompat	3	Nil	
	33kV Khoupom - Thangal	20	INII	
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	
	MEG	HALAY	Ά	
TW01	220 kV D/c Byrnihat-Mgap-New Shillong	122	45.09/ Forest as per dictionary meaning	Forest proposal submitted on 27.03.19.NOC for Mawngap New Shillong section as non- forest area issued by DFO East Khasi Hills. For balance Killing-Mawngap section NOC is likely to be issued by DFO East Khasi Hills as the area is found to be private land.

Pkg.	Name of the Line/Substation	Line Lenath	Forest (In Ha.)/	Status/Remarks
No.		(In km)		
TW02	LILO132kV MLHEP-Khliehriat at Mynkre	34	11.566/ Forest as per dictionary meaning	Forest proposal submitted on 23.01.19. Proposal forwarded to RMoEFCC, Shillong on 29.06.20. However, RMoEFCC has raised certain observations on both the proposals on 15.07.20. Compliance of RMoEFCC observations under process at Nodal Office/ PCCF Meghalaya.
	132 kV D/c Phulbari-Ampati	49.633	Nil	
	33kV Mynkre - Mynkre	6		
DMS01	33kV Mynkre - Rymbai	15		
Divident	33kV Mynke - Lumshnong	10		
	33kV Mynkre - Latykre	25		
	33kV Phulbari-Rajballa Bhaitbari	10	Nil	
	33kV Phulbari - Chibinang	6		
DMS02	33kV Tikrila - Raksambre	35		
	33kV Phulbari-Phulbari	6		
	33kV LILO Tikrila-Phulbari	6		
	33kV New Shillong - Mawpat	25	Nil	
	33kV SE Falls - Mawpat	10		
DMOOO	33kV New Shillong -N. Shillong	6		
DMS03	33kVN.Shillong- Mawryngkneng	26		
	33kV LILO Jowai-L'krem	4		
	33kV Jongksha-Mawkynrew	8		
		TRIPU	JRA	
TIMOA	132 kV D/c Bagafa-Belonia	14	2.5118/ Un- classed	Stage-I & Stage-II (final) approval obtained on 30.10.18. & 07.06.19 respectively.
TW01	132 kV D/c Udaipur-Bagafa	32	26.7732/ RF	Stage-I & Stage-II (final) approval obtained on 09.04.18 & 06.06.19 respectively.
	132 kV S/c Bagafa-Satchand	40	9.1503/ RF	Stage-I & Stage-II (final) approval obtained on 12.10.18. and 24.08.20.
	132kV S/c S'room-S'chand at S'room	1	Nil	
	132kV S/c S'room-S'chand at S'chand	1	Nil	
TW02	132 kV D/c Rabindranagar- Belonia	40	74.9493 / RF	Stage-I & Stage-II (final) approval obtained on 12.04.19 & 22.06.20 respectively.
	132 kV D/c Rabindranagar- Rokhia	24	21.1896 / RF	Stage-I & Stage-II (final) approval obtained on 28.06.18 & 07.06.19 respectively.

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	132 kV D/c Belonia-Sabroom	42	25.5204 RF	Stage-I & Stage-II approval obtained on 28.06.18 & 05.08.20 respectively.
	LILO 132kV S/c Sj'nagar- Rokhia at Gokulnagar	5	Nil	
	LILO 132kV S/c Ambassa- P.K.Bari at Manu	4	Nil	
	132 kV D/c Kailashahar- Dharamnagar	24	14.3586 /RF	Stage-I & Stage-II approval obtained on 10.04.18 & 07.06.19 respectively.
TW03	LILO132kV 79 Tilla-Dhalabil at Mohanpur	2	Nil	
	132 kV D/c Udaipur-Amarpur	30	22.0482 /RF	Stage-I & Stage-II approval obtained on 10.04.18 & 29.08.19 respectively.
	132 kV Manu-Manu	2	Nil	
	33kV Dalak - Jatanbari	8.537	2.705/ Unclassifi ed Govt. Forest (UGF)	Proposal resubmitted on 07.01.21 and presently under formulation with DFO.
	33kV LILO T'mukh-Silachari at Karbook	6		
DMS01	33kV LILO Jolaibari-Bagafa at M'pur	16	Nil	
	33kV Dalak- Amarpur	15		
	33kV Belonia - Chittamara	8		
	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- Hrishyamukh to Srinagar	25		
	33kV Rupaichari - Sabroom	12	NU	
	33kV Satchand - Rupaichari	10	Nil	
	33kV Rajnagar - Ekinpur	20		
DMS02	33kV LILO S.Nagar-Takarjala at Gabardi	4		
	33kV LILO Belonia-Rajnagar at Barpathari	10		
	33kV Jolaibari - Satchand	18		Forost proposal resubritted
	33kV Jolaibari - Silachari	30	18.19/ UGF & RF	Forest proposal resubmitted on 04.11.20. Presently under formulation with respective DFOs.
	33/11 kV Ekinpur Substation		0.1962 /RF	Stage-I & Stage-II approval obtained on 02.04.20 &

Pkg		Line Forest			
Pkg. No.	Name of the Line/Substation	•	(In Ha.)/	Status/Remarks	
		(In km)	Туре		
				20.10.20 respectively.	
	33/11 kV Barpathari Substation		0.2209 (Forest & Trishna WL) /	Forest: Stage-I approval obtained on 04.03.20. Compliance report submitted by State on 20.11.20. Now the proposal is pending at RMoEF, Shillong for Stage-II clearance.	
			RF	Wildlife: National Board for Wildlife (NBWL) permission obtained on 17.12.19.	
	33kV Gokul Nagar-Golaghati	15			
	33kV Gokul Nagar-Durganagar	15			
	33kV G'Nagar-Tapping at	1			
	Madhupur-Jangalia	-			
	33kV Rajnagar-Nidaya	20			
	33kV Takarjala- Golaghati	15	Nil	No Forest involved	
	33kV Madhupur-Durganagar	14 ^{INII} 12			
	33kV Kathalia-Nidaya 33kV Melagarh-Nalchar				
	33kV Bishramganj-Nalchar	10			
	33kV Bishramganj-Jangalia	15			
DMS03	LILO B'ghat-Jangalia at S'kote	04			
	33/11 kV Nidaya Substation		0.3299 (Forest & Trishna WL) /RF	Forest: Stage-I approval obtained on 16.03.20. Compliance report submitted by State on 24.11.20. Now the proposal is pending at RMoEFCC, Shillong for Stage-II clearance. 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	1111		
	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	Proposal resubmitted on 04.11.20 and presently under formulation with respective DFOs.
	33kV Teliamura - Taidu	12	5.0948/ UGF	Proposal resubmitted on 20.10.20 and presently under formulation with respective DFOs.
	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		
	LILO C'manu-Manu at Chailengta	8		
DMS05	LILO Salema-Kamalpur at D. Chowmohani	14		
	33kV J'Nagar-Dhumachhera	20	21.3339/ UGF & RF	04.11.20 and presently under formulation with DFO.
	33kV Ambassa-Jawhar Nagar	13	0.9972/ UGF & RF	Proposal submitted on 07.07.20. After formulation DFO forwarded the proposal to CF on 30.12.20.
		MIZOF	RAM	
	132kV S/c Lungsen-Chawngte	39		No forest involved.
TW02	132kVS/c Chawngte-S.Bungtlang			
	132kV S/C Lunglei-Lungsen	0.5	Nil	
SS02	132kV S/c West Phaileng-		104.77 / Forest	Forest: In principle approval for Stage-I has been obtained on 15.01.21.
3302	Marpara		as per dictionary	Wildlife: Proposal
			meaning/	recommended by Standing
		50	RF	Committee of NBWL in the meeting held on 03.07.20.
DMS01	33kV Lungsen-Lungsen	5 0.1	Nil	
	33kV West Phaileng- W.Phaileng			
		NAGAL	AND	
TW01	220 kV S/c N. Kohima-Wokha- M.chung	92	Nil	No forest involved
T14/05	132 kV D/c Kohima- New		K 1''	
TW05	Secretariat Complex	28	Nil	
TW06	132 kV S/c Wokha-Zunheboto- M'chung	97	Nil	
1	132 kV S/c Tuensang-Longleng	36	Nil	

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	LILO of 132 kV S/c Kohima- Workha at New Kohima	15	Nil	
	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	
	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/agreed milestones from previous missions/field visits

Till reporting period (up to December 20), total four implementation support missions have been completed. During last mission (4th mission from November 25 to December 31, 2019), mission team including environment and social specialists undertook field visits to selected sites in Assam (Site visits photographs placed as **Plate-1**) to review the ground level implementation of safeguard measures.

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



Based on the above sites visit and subsequent discussion/ meeting with IA, six participating States, Ministry of Power (MoP), Central Electricity Authority etc. Bank has proposed some corrective actions/ milestones agreed in their Aide Memoire issued on 22nd January 20. The status of agreed actions pertaining to E & S aspects are summarized below in **Table-3**.

S.N		Responsible	Present Status
1.	CPTD: Making land and crop	-	POWERGRID has already
	compensations in respect of eligible cases	POWERGRID	prioritized compensation payment towards land/surface damages
2	CPTD: (i) Providing detailed explanations on distinguishing eligible vis-à-vis non-eligible compensation cases; (ii) bring to the fore, and highlight case by case the issues and challenges (if any) being encountered in respect of drawing TLs/ DLs;		cases along with detailed justification has been provided in same Table - 8 . As regard compensation against
3.	CPTD: initiate compensation payment processes for corridor / ROW in Assam and Manipur	POWERGRID	RoW/ Corridor, same shall be initiated commensurate with the progress in stringing work.
4	Expediting identification/ handing over of alternative land - Tarun Nagar S/S (Assam) - Takyel DMS S/S (Manipur) Sekerkote, Tillabazar and Ranirbazar (Tripura) -Share details of action taken w.r.t. site location at Romai and Bogibil DMS S/S (Assam) to address sub-lease issue	APDCL MSPCL TSECL POWERGRID APDCL	Tarun Nagar land handed over in Feb, 2020. Alternate land for Takyel yet to be handed over. APDCL to expedite the matter with the State Revenue Authority for regularization/ownership transfer of land in their name. During meeting with APDCL & AEGCL on 21.12. 20, Chairman, APDCL assured that the matter shall be resolved soon.
5	Forest and/ or Wildlife clearance for 33 kV S/S at Nidaya, Barpathri and Ekinpur (Tripura)	POWERGRID TSECL	Stage-I forest clearances & wildlife permissions for 33 kV substation at Nidaya & Barpathri and Stage-II clearance for Ekinpur have already been obtained. For details refer Table-2 .
6	Addressing observations from field visit (refer Annex IV)	POWERGRID	Being complied.
7	Appointment of consultants for preparation of Final Env. Assessment Report for sub- projects in Manipur	POWERGRID	M/s R S Envirolink Technologies Pvt. Ltd. has been appointed as consultant in June 20.
8	Expediting and sharing Final Environmental Assessment Report for other sub-projects (only one has been finalized and cleared by Bank till date)	/	Two more FEARs of Nagaland have been cleared by Bank. However, POWERGRID has already raised the issue related to competency /understanding level of Independent Consultants and allow POWERGRID prepare these reports in-house. Bank informed that it will discuss with Regional E & S Safeguards Adviser and convey its decision to POWERGRID accordingly.

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

9	Sharing Initial Environmental Assessment Report (IEAR) for planned 8 new lines across Assam and Tripura	/	 scope) already shared with Bank in 4th Feb'20. The revision of IEAR based on the observations received from Bank on 14th Feb.'20 couldn't be completed due to ongoing pandemic situation and change in scope of work. As regard IEAR for Tripura, same shall be prepared/ shared once the
			detailed surveys of proposed lines are completed.
10	Filling up vacancy for field officer (ESM) in Manipur	POWERGRID	Sh. Bhisma Jyoti Chutia has been appointed as EO for Manipur w.e.f. June'20.
11	Project/ Site level GRC – Nominations from Local Administration	All States (except Mizoram & Manipur)	No progress so far. Support from Bank is required for expediting notification of same by the respective State Utilities.
12	Revising the draft CPTDs (based on feedback already shared by Bank team) – Joint meeting to be held	POWERGRID /Bank	Joint meeting was scheduled in 3 rd week of March. However, in view of outbreak of corona virus joint meeting yet to be held.

It is also worth mentioning that most of the observations made by the Bank in their previous implementation support mission 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. However, certain action such as nominations from Local Administration for Site Level GRC and handing over of some substations lands are yet to be complied fully by the respective State Utilities/Govt.

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), NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period July-December, 2020 31

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 implementation are presented in **Table-4**. Some photographs of site-specific measures 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.

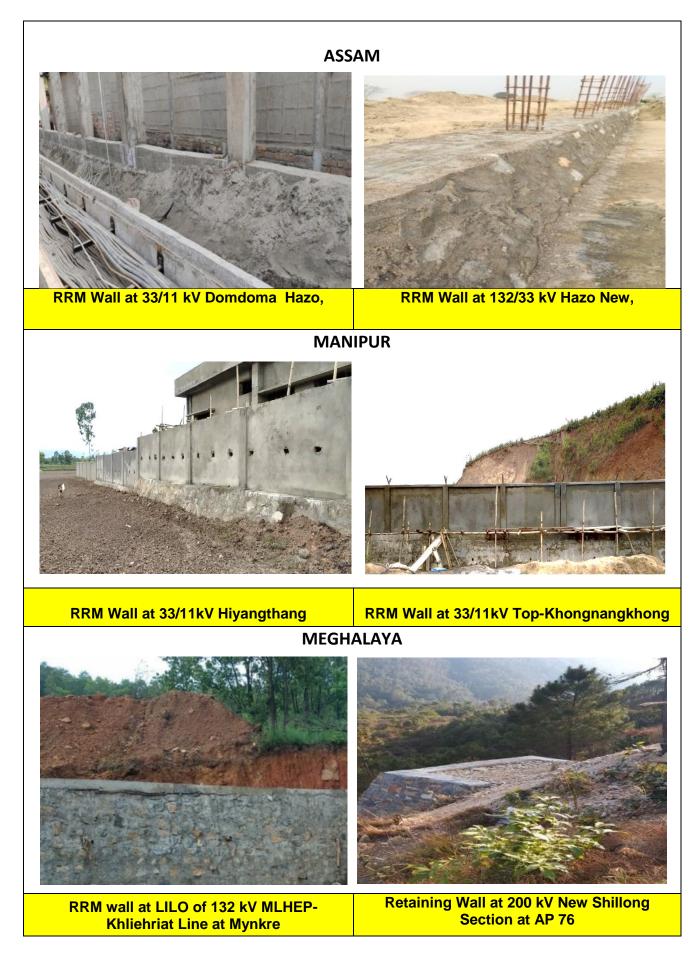
It may be noted that to implement such site-specific measures at appropriate time, adequate budgetary provisions has been made through Revised Cost Estimate (RCE) or as additional quantity against Bill of Quantity (BoQ). Accordingly, requirement of approach road has already been worked out for various 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.
				ation, *** Completed
		ASSA	Μ	
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	17**	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 Retaining 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***	

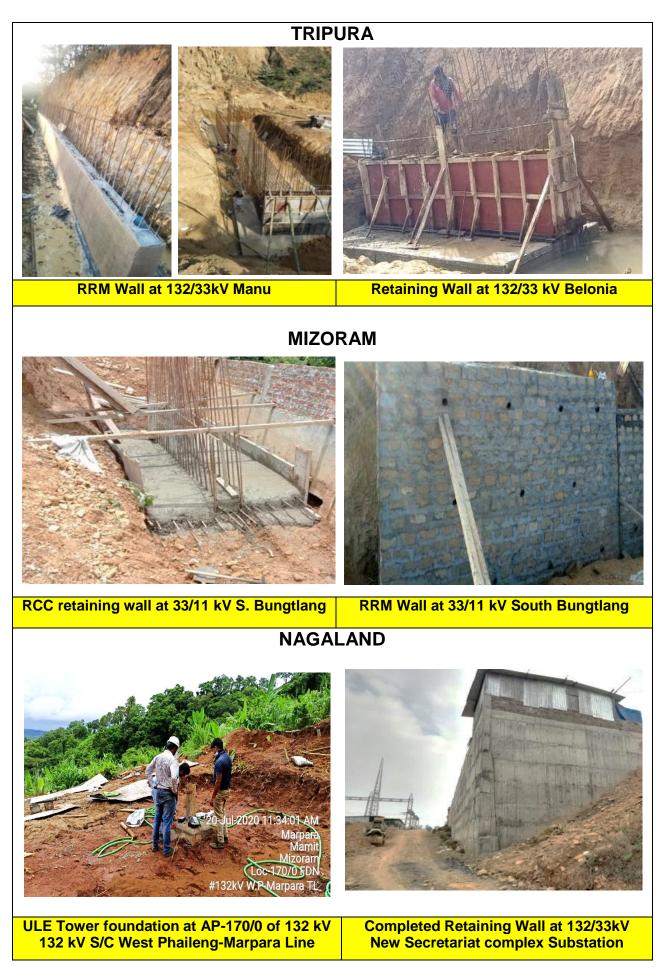
 Table-4 : Status of implementation of Site-specific Mitigation Measures

18	33/11kV D'doma- hazo		RRM Wall***			
19	33/11 kV Arya College			Box culvert***		
	MANIPUR					
20	132/33kV Tamenglong	215*	Boundary Wall**			
21	33/11 kV Takyel					
22	33/11 kV Lamphel					
23	33/11 kV Top	23***	RRM Wall**			
24	Khongnangkhong 33/11 kV Porompat		Boundary Wall***	Outer drainage***		
24	33/11 kV Andro	25*	RRM Wall**	Outer urainage		
25	33/11 kV Hiyangthang	41.7*	RRM Wall***	Crossing*		
26 27	33/11kV Keithelmanbi	290***	Boundary Wall***	Crossing		
	33/11 kV Kwakta		-			
28		05	Boundary Wall***			
29	Aug.of 33/11 kV Ukhrul	84**	Retaining Wall** Boundary Wall***			
30	33/11 kV Tuilaphai		,			
31	33/11 kV Sanjenbam	22.5**	Retaining Wall*			
32	132/33kV Gamphajol	120*	Retaining wall**			
33	Pishum(GIS)		RRM**			
		MEGHAI				
			Retaining Wall**	Dain Watar		
32	220/132/33 kV New	20*	Stone Pitching* & Grass with	Rain Water Harvesting**		
	Shillong	20	bamboo grids*	rialvesting		
33	132/33 kV Mynkre	25*	RRM Wall*			
		20	Rev., RRM Wall** &			
34	132/33 kV Phulbari	4.0*	Grass with bamboo	Outer drainage*		
		10*	grids*	•		
35	33/11 kV Rymbai		RRM Wall**	Outer drainage*		
36	33/11 kV Latyrke		RRM Wall***	Outer drainage*		
a-			Revetment RRM			
37	33/11 kV Rajballa- Bhaitbari		Wall**&Grass with	Outer drainage*		
20			bamboo grids*	Outer dreine get		
38	33/11 kV Chibinang		RRM Wall**	Outer drainage*		
	33/11 kV Raksambre		RRM Wall***	Outer drainage**		
39	33/11 kV Mawpat		RRM Wall***	-		
40	33/11 kV New Shillong		RRM Wall***			
41	33/11 kV Mawkneng		RRM Wall***			
42	33/11 kV Mawkynrew		Stone Pitching***			
	220 kV D/c Byrnihat-		RRM Wall- Total			
43	Mawngap-New Shillong		57** (8***) & ULE :			
	line		100*, 54** & 7***)			
	LILO of 132 kV MLHEP-		RRM & Revetment			
44	Khliehriat Line at		Wall-Total 28*(5***)			
	Mynkre		& ULE: 35***			

Plate 2 : Implementation of Site Specific Measures



SI. No	Name of Substation /Line	Required Approach Road (length in meter) * Planned	Type of Slope Protection/ Stabilization / bio-engineering Measures ** Under Implement	Other measures (rainwater harvesting/ cross/ outer drainage etc. ation,*** Completed
		MEGHA	ALAYA	
45	33/11 kV Mynkre			Outer drainage**
46	220 kV Byrnihat (Killing) Bay Extension			Outer drainage**
	F	TRIP	URA	
47	132/33kV Bagafa	50**	Retaining Wall*	01 No. recharge pit
48	132/33kV Belonia	115**	Retaining Wall*	in each substation*
49	132/33kV Satchand		Retaining Wall**	
50	132/33kV Gokulnagar		Retaining Wall***	
51	132/33kV Mohanpur	250*	Retaining Wall**	
52	132/33kV Manu		Retaining Wall*	
53	132/33kV Amarpur		Retaining Wall*	
54	132/33kV Ambassa (Extn.)	150*		
55	132/33kV Sabroom		Retaining Wall*	
56	33/11kV Golaghati		RRM Wall***	
57	33/11kV Durganagar	500*		
58	33/11kV Nidaya	200*		
59	33/11kV Simna	200*		
60	33/11kV Jawaharnagar	25*		
61	33/11kV 82 Mile	5*		
62	33/11kV Dhumachhara	5*		
		NAGA	LAND	
63	132/33kV Secretariat Complex Kohima	900**	RRM & Retaining Wall***	
64	132/33 kV Longnak		Retaining Wall**	
65	132/33 kV Longleng	500**		
66	132/33 kV Pfutsero	100*	Retaining Wall*	
67	132/33 kV Zunheboto	80*	Retaining Wall*	
68	Ext. of 132/66/33 kV Mokokchung		RRM & Retaining Wall***	
69	Ext of 132/33kV Wokha		RRM & Retaining Wall***	
70	33/11 kV Longtho	700*		
71	33/11 kV Longleng		RRM Wall*	
72	33/11kV Pfutsero	55*	RRM Wall***	
73	Aug. of 33/11kV Bosta		Retaining Wall***	
74	Aug. of 33/11kV Chakabhama		Retaining Wall***	



SI. No	Name of Substation /Line	Required Approach Road (length in	Type of Slope Protection/ Stabilization / bio- engineering	Other measures (rainwater harvesting/ cross/ outer
		meter)	Measures	drainage etc.
			** Under Implementation	
		NAGAI		on, completed
75	Aug. of 33/11kV	NAGAI	Retaining Wall*	
13	Torogonyu		itelaining wall	
76	Aug. of 33/11kV		Retaining Wall*	
10	Tseminyu			
77	220 kV S/c N. Kohima-		ULE : Total 233*	
	Wokha-M.chung			
78	132 kV D/c Kohima- New Secretariat Complex		Revetment Wall - 2* and ULE - (Total 14*	
79	132 kV S/c Wokha- Zunheboto-M'chung		ULE - Total 101*	
80	132 kV S/c Tuensang- Longleng		ULE - Total 77*	
81	LILO of 132 kV S/c Kohima-Wokha at New Kohima		ULE - Total 14*	
82	LILO 132 kV D/c Kohima- Meluri at Pfutsero		Revetment Wall - 6* and ULE - 8*	
		MIZOI	RAM	
83	132/33 kV Lungsen		Retaining Wall* Stone Pitching*	Cross drainage* Outer drainage*
84	132/33 kV West Phaileng	80*	Retaining Wall*	Cross drainage**
85	132/33 kV Marpara	130*	Retaining Wall* Grass with bamboo grids*	Cross drainage*
86	33/11kV S. Bungtlang	200*	Retaining Wall**	Cross drainage*
87	Aug. of 132/33 kV Lunglei		Retaining Wall* Stone Pitching*	Cross drainage*
88	132 kV Lungsen- Chawngte		Unequal Leg Extension (ULE)- 76*	
89	132 kV Chawngte- S.Bungtlang		ULE- 56 *	
90	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 December'20 no accidents (fatal or non-fatal) including major/minor injuries were reported from any of the construction sites.



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

Behiatang, Below (From L to R): Health checkup & HIV-AIDS awareness program for workers in 132 kV Rupai-Chapakhowa line

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 July-December, 2020

MANIPUR



Safety Training at 33/11 kV Top Khongnangkhong



World Environment Day Awareness Program at 33 kV Monsangei- Hiyangthang Line

MEGHALAYA

Excavation, Firstaid, PPEs briefing by M/s USTL at AP 129/0 on 24.06.2020



Safety briefing on Excavation, First aid, PPEs in 220 kV D/c Byrnihat-Mawngap-New Shillong



Safety Training at 220/132 KV New Shillong (GIS) substation



Toolbox talk at 132/33 kV Longnak, Substation

<section-header>

Fire Mock during of National Safety Week Celebration 132/33 kV Longnak

TRIPURA





Training on Work at Height at 132/11 Sabroom Substation



MIZORAM



Safety Briefing and PEP Talk at 132/33 kV West Phaileng Substat

Barricading of Excavated Tower Pit Area of 132 kV West Phaileng-Marpara Line



	SPA	L
	EMERGENCY CON	TACT NUMBER
	(Bagafa	Site)
SI no.	Contact Person	Contact Number
1	Site In-charge	7320837473/7640939793
2	HR & Admin Dept.	8837410576/9089088668
3	Safety Dept.	7874398415
4	Security	
5	Hospital /Ambulance	03823262248
6	Police	03823262231





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

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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	force(max.) Employed
Assam	M/s Neccon Power & Infra Ltd	SS-01-03, DMS-01	340	220
	M/s JV Techno & Seiyuan	SS-04	100	70
	M/s T & R (India) Ltd	TW-01	100	30
	M/s Meher Foundation & Civil Engg. Pvt. Ltd	P - 01	30	10
	M/s Power Mech Projects Ltd	TW-02 & 05	110	60
	M/s Teems India Pvt. Ltd	TW-04	60	25
	M/s Simplex Infra. Ltd.	TW-07	100	-
	M/s Sterling & Wilson Pvt. Ltd.	DMS-02 & 03	300	110
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	82
	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	30
	M/s Siddhartha Engg. Ltd.	DMS -03 & 04	50	20
	M/s Sterling & Wilson Pvt. Ltd.	SS-01 & 03	360	30
	M/s Shyama Power India Ltd.	SS-02 & TW-06	200	50
Mizoram	M/s KSA Powerinfra Pvt. Ltd	SS-01, TW-01	100	45
	M/s Sterling & Wilson Pvt. Ltd	SS-02	119	58
Nagaland	M/s Sterling & Wilson Pvt. Ltd.	DMS-03 & 04	200	50
	M/s Shyama Power India Ltd.	TW-01,05,06 & SS- 03	400	220
	M/s Techno Power Ente. Ltd	DMS-01 & 02	75	50
	M/s Power Mech. Projects Ltd.	SS-02 & 04	100	35
	M/s Techno Electric & Engineering Co. Ltd	SS-01	100	45

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.



Plate -4 : Worker Facilities at Construction Sites

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/equipments. 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**.

Table-5: Details of Training program under NERPSIP Capacity Building

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

Plate 5 : E & S Training Programme



E & S Safeguard Management of NERPSIP Guwahati, Assam 6 & 7th May 2019

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	BREAK	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	S.K. Kar POWERGRID	rea Br	K. Khumujam World Bank	NCH	K. Khumujam World Bank	rea BF	Suvendu Kar POWERGRID
Day 2 05.09.18		Forest & Bio-diversity issues in Developmental Projects and their Management		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	1	14.00 - 1530		15.45 - 17.00
	& aadd	vith Indigenous People (Tribal) irressing Gender Issues with al reference to NER States Sh. R. Swarankar.		Environmental laws of India vis-à-vis Forest & Wildlife Clearance		Engineering/Design Measures to meet safeguard e.g. - Slope stabilization including bio-engg measures - Bird Guards - Innovative Towers - Wildlife/Elephant protection	TEA BREAK	RoW Compensation and Diminution of Land Value due to placing of Transmission Line/Tower
	Forme	r Sr. Social Specialist ADB	TEA	Sh. S.S.Singh General Manager (ESM)	3	Sh. Vinay General Manager (Engg.)		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 site contractors/ subcontractors. Any incidence of deviation/non-compliance of the 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/memoes 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		Dbs./ Notice till date		lotice issued orting period	Total Penalties, if any
	Regional Safety	Site Officials	Regional Safety	Site Officials	
Assam	15	19	1	-	1
Meghalaya	7	19	1	4	Nil
Tripura	4	29	-	3	Nil
Manipur	10	20	-	-	Nil
Nagaland	2	33	0	2	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**). 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
			ASSAM	l		
1	220/132 kV Behiating	7.31				
2	132/33 kV GMC	0.83	. =			
3	132/33 kV Silapathar	7.27	AEGCL	N.A		
4	132/33 kV Paltanbazar	0.63	Existing Land	N.A	N.A	N.A
5	132/33 kV Sarupathar	7.27	Lanu			
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				

 Table-7: Details of Land Secured for proposed substations

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	••••••••••••••••••••••
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.	***	Alternate land finalized but yet to be handed over to POWERGRID
4	33/11 kV Lamphel	0.37	Govt.	N.A.	****	
5	33/11 kV Top	1.97	Govt.	N.A.	****	
6	Khongnankhong 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 Durch as a
10	33/11 kV Leimapokam	0.63	Pvt.	1	0.955	Direct Purchase on negotiated rate
12	33/11 kV Thangal	0.612	Pvt.	1	0.522	on nogetiated rate
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.	****	
		1	EGHALA			
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	

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		
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			
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 land	3.496			
14	33/11 kV Maw'kneng	0.61		1	0.220			
15	33/11 kV Mawkynrew	1.18		1	1.600			
			TRIPUR	A				
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	NA	NA	NA		
6	132/33 kV Mohonpur	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	TOFOL					
20	33/11 kV Durganagar	0.40	TSECL Land	NA	NA	NA		
21	33/11 kV Maharani	0.89	Lanu					
22	33/11 kV Nidaya	0.61						
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	1					
29	33/11 kV Srinagar	1.46						
30	33/11 kV Chechua	0.41						

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
31	33/11 kV Rupaichari	0.62	-			
32	33/11 kV Ekinpur	1.03				
33	33/11 kV Gabardi	0.67				
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				
			IAGALAI	ND		
1	132/33kV Secretariat	3.4	DPN	N.A	N.A	N.A
	Complex Kohima	4 7	Land		0 700	
2	132/33 kV Longnak	4.7	Pvt.	1	2.700	
3				_		
4	132/33 kV Longleng	8.1	Pvt.	7	0.458	Direct Purchase
4	132/33 kV Pfutsero	4.94	Pvt.	1	5.812	Direct Purchase on negotiated rate
5	132/33 kV Pfutsero 132/33 kV Zunheboto	4.94 14.64				
5 6	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho	4.94 14.64 1.04	Pvt.	1	5.812	
5 6 7	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town	4.94 14.64 1.04 0.52	Pvt.	1	5.812	
5 6	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung	4.94 14.64 1.04	Pvt.	1	5.812	
5 6 7 8	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House	4.94 14.64 1.04 0.52 0.15	Pvt.	1	5.812	
5 6 7	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung	4.94 14.64 1.04 0.52	Pvt. Pvt.	1 6	5.812 2.781	on negotiated rate
5 6 7 8 9	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area	4.94 14.64 1.04 0.52 0.15 0.20	Pvt. Pvt. DPN	1	5.812	
5 6 7 8	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto	4.94 14.64 1.04 0.52 0.15	Pvt. Pvt.	1 6	5.812 2.781	on negotiated rate
5 6 7 8 9 10	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point	4.94 14.64 0.52 0.15 0.20 0.76	Pvt. Pvt. DPN	1 6	5.812 2.781	on negotiated rate
5 6 7 8 9 10 11	132/33 kV Pfutsero 132/33 kV Pfutsero 33/11 kV Longtho 33/11 kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati	4.94 14.64 1.04 0.52 0.15 0.20 0.76 0.33	Pvt. Pvt. DPN	1 6	5.812 2.781	on negotiated rate
5 6 7 8 9 10 11 12	132/33 kV Pfutsero 132/33 kV Zunheboto 33/11 kV Longtho 33/11 kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Chiephobozou	4.94 14.64 0.52 0.15 0.20 0.76 0.33 0.37	Pvt. Pvt. DPN	1 6	5.812 2.781	on negotiated rate
5 6 7 8 9 10 11 12 13	132/33 kV Pfutsero 132/33 kV Pfutsero 33/11 kV Longtho 33/11 kV 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	4.94 14.64 0.52 0.15 0.20 0.20 0.76 0.33 0.37 0.15	Pvt. Pvt. DPN Land	1 6 N.A	5.812 2.781 N.A	on negotiated rate
5 6 7 8 9 10 11 12 13 14	132/33 kV Pfutsero 132/33 kV Pfutsero 33/11 kV Longtho 33/11 kV Longleng Town 33/11kV Mokokchung Power House 33/11kV Mokochung Hospital Area 33/11kV Zunheboto South Point 33/11kV Lalmati 33/11kV Lalmati 33/11kV Chiephobozou 33/11kV Tizit 33/11kV Pfutsero	4.94 14.64 0.52 0.15 0.20 0.76 0.33 0.37 0.15 0.19	Pvt. Pvt. DPN Land Pvt.	1 6 N.A	5.812 2.781 N.A	on negotiated rate N.A Direct Purchase
5 6 7 8 9 10 11 12 13	132/33 kV Pfutsero 132/33 kV Pfutsero 33/11 kV Longtho 33/11 kV 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	4.94 14.64 0.52 0.15 0.20 0.20 0.76 0.33 0.37 0.15	Pvt. Pvt. DPN Land	1 6 N.A	5.812 2.781 N.A	on negotiated rate

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 are 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**.



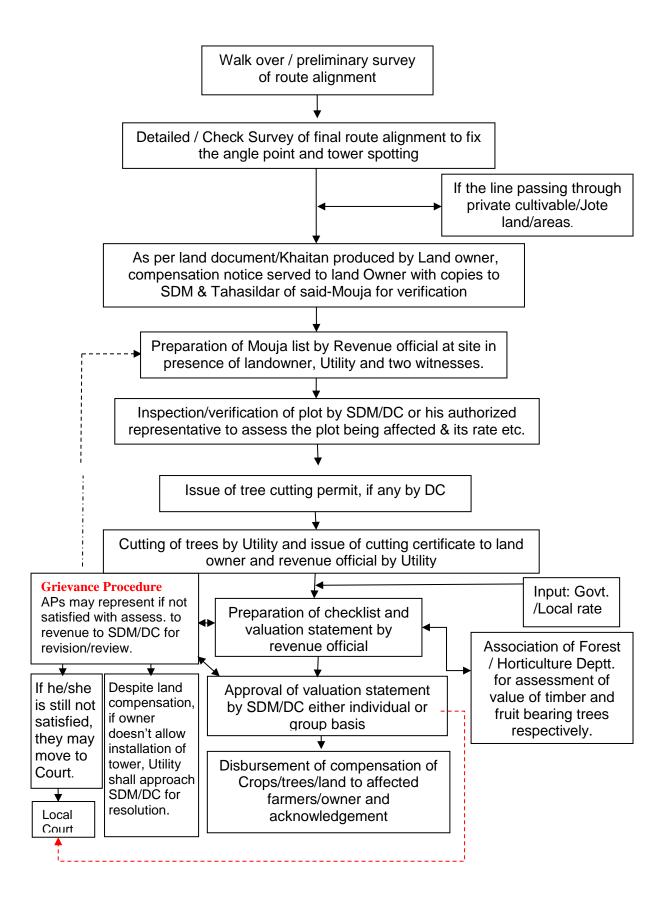


Table - 8: Status of Land, Tree & Crop Compensation

SI.	Name of the Line				La	and con	npensat	ion				Tree/C	Crop C	ompen	sation	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	ăð	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)	
		(No.)	(No.)	(No.)	(No.)	(Rs. Million)	km	(No.)	(No.)	(No.)	(Rs. Lakh)	(No.)	(No.)	(No.)	(Rs. Million		
Ass	am					,									1		
1	220 kV D/c Tinsukia- Behiating	125	113	65	48	1.29	5	Stringin	g not sta	rted yet		97	97	_	2.62	10 nos. tower location in Govt. land	
2	132 kV S/c Dhemaji- Silapathar	67	60	34	26	1.22						Nil	Nil	Nil	Nil	6 nos. tower location in Govt land	
3	132 kV S/c Rupai- Chapakhowa	140	82	64	18	0.55						121	121	0	3.83	26 nos. tower location in Govt. land & 9 cases pending for title disputes.	
4	33 kV Tezpur- Parowa	Nil	Nil	Nil	Nil	Nil						17	17	-	0.16		
	Sub Total Assam	332	255	163	92	3.06						235	235	0	6.62		
Ме	ghalaya	•	•				•										
1	220kVD/c Byrnihat-Mawngap- N.Shillong	248	248 *	157 *	91*	58.28	Not Started	towe	pensatio er base &	@ 15% r	nax.	30	30	-	2.64		
2	LILO132kV MLHEP- Khliehriat	88	82*	78*	4*	6.13	25.83	Go	corridor vt. Megha	alaya rec	ent	2	1	1	0.05		
3	132 kV D/c Phulbari-Ampati	177	177	177*	0*	15.78	49.89		otificatior rding ado guide	ption of		61	61	0	0.9		
	Sub Total Meghalaya	513	507	412	95	80.19	75.72		2			93	92	1	3.59		
Ma	nipur																
1	132 kV D/c Imphal – Nin'khong	105	124	93	31	46.94	21.192	Stri	inging no	t started	yet	Nil	Nil	Nil	Nil		
2.	132 kV S/c Rengpang- Tamenglong	36	30	-	-	-	-					30	0	24	0	Compensation issue related to dwellers in forest area without any ownership documents.	

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SI.	Name of the Line		•		La	and com	npensation					Tree/Crop Compensation				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 Dow 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)
																Matter taken with Chief Secretary, Manipur
	Sub Total Manipur	141	154	93	31	46.94	21.192					30	Nil	24	Nil	
Na	galand							-								
1	132 kV D/c Kohima-New Sec. Complex	32	32	28	4	2.82						32	29	3	0.176	
2	LILO 132 kV D/c Kohima- Meluri at Pfutsero	10	11	11	0	1.00						11	11	0	0.884	
3	220 kV S/c N.Kohima- Wokha-M.chung	128	128	82	46	14.41	Not Applicable as State Govt. has				has	128	82	46	0.74	
4	LILO132kV S/c M'chung- Mariani at Longnak	5	6	6	0	2.45	not	adopte	d MoP (Guideline	s	5	5	0	0.007	
5	LILO 132kVS/c Kohima- Wokha at N Kohima	29	29	29	0	3.477						29	29	0	3.69	
	Sub Total Nagaland	204	206	156	50	24.157						205	156	49	5.497	
Tri	pura															
1	LILO132kV Ambassa-PKBari	5	5	0	5					ble as St		6	5	1	0.670	
2	132 kV D/c Bagafa-Belonia	17	3	0	3			Govt.		adopted	MoP	20	5	15	0.101	
3	132 kV S/c Bagafa-Satchand	11	8	0	8			_	Guide	elines		11	5	3	0.589	
4	132kV Sabroom-Satchand at Sabroom	7	7	1	6	0.011	1.311					20	9	11	0.775	
5	132kV Sabroom-Satchand at Satchand	8	5	1	4	0.010						6	1	4	0.005	
6	132 kV D/c Udaipur-Bagafa	41	21	9	10	0.045	j			39	20	6	1.962			
7	132 kV D/c R'nagar-Rokhia	22	5	0	4							4	0	4	0	
8	LILO 132kV S/c Sj'nagar- Rokhia at G'nagar	11	14	14	0	1.098				17	17	0	1.908			
9	LILO132kV 79Tilla-Dhalabil	6	5	5	0	0.085						9	9	0	0.091	
10	132 kV D/c Udaipur-Amarpur	38	7	0	7	0						9	2	7	0.024	

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SI.	Name of the Line				La	nd con	npensati	on				Tree/C	crop C	ompen	sation	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	Compensation for APs for RoW Corridor under progress	Total Compensation paid for RoW Corridor	Affecte	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)
11	132 kV Manu-Manu	11	4	4	0	0.328						12	11	1	0.360	
12	132 kV D/c Belonia-Sabroom	5	7	0	7	0						7	1	6	0.085	
	Sub Total Tripura	182	91	34	54	1.577	1.311					160	85	58	6.57	
Miz	zoram															
1	132kV S/c West Phaileng- Marpara	12	0	0	0	0	(only	10 ⁰ % fo	or tower	line corri base as n 01.05.2	per	41	26	25	0.89	All tower locations fall under Govt. land
	Sub Total Mizoram	12	0	0	0	0						41	26	25	0.89	
	Grand Total	1384	1213	858	322	155.93	98.223					764	594	157	23.167	

*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. For example, in case of 220 kV Killing –Mawngap-New Shillong line out of 151 tower locations for which compensations has already been paid, 45 locations falls under private ownership & remaining 106 locations falls under community land under the jurisdiction of village council (appx. 10 village councils involved) for which compensation has been paid to the concerned village council/headman.

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 indicator agreed under subject Ioan. 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 (Copy of notification enclosed as **Annexure-A**).. 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 districts 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**.

S					Main Issue of	Status of complaint							
Ν	Subproject	No/	complainant	complaints/	complaints								
	/State	Village		Court case									
Α.	A. Court Cases												
	No Court Case has been registered so far against any subprojects under NERPSIP												
В.	Written Comp	olaints											
1	LILO 132kV	AP-13	Villagers of	05.06.18	Route	Resolved on							
	Rokhia-Suraj-	& 14	Gokulnagar		diversion at	03.07.18.							
	maninagar at				location AP-13	Modification in route							
	Gokulnagar				& 14,	alignment avoiding							
	(Tripura)				·	5 5							

Table - 9: Details of Grievances/Complaints

S N	N Subproject No/		Name of complainant	Date of complaints/	Main Issue of complaints	Status of complaint
		Village	•	Court case	•	
					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 -	AP-68 & 70	Mr. Shwehilo Tep	20.05.20	Land compensatio	Matter resolved through discussion
3	Mokokchung via Wokha line (Nagaland)	AP-53, 54 & 83	Mr. Sotilo Tep Mr. Daniel Tep Mr. Hillo Khing	19.06.20	n for approach road	with Contractor and Land owners on 20.07.20 & 28.10.20 respectively.
4	132kV Marpara substation (Mizoram)	Substa tion Premis es	Persons	18.06.20	Delay of Salary/ Payment	Resolved on 22.06.20. Contracting agency took necessary action and solved the issue.
5	132/33 kV Hazo (Assam)	Substa tion premis es	Villagers of 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.
С.	Verbal Comp	laints				
1.	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	Regarding Road Block due to construction materials	Resolvedon01.03.18.within 3 hours tocomplainantsatisfaction.
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.

	Subproject		complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint
4.	33/11 kV Chiephobozo u substation (Nagaland)	Village Chieph obozou	Kiewhuo	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 Padam pukhri		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)	Khawiv a	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.	Village Zhadim a	Neizolie Loueii (land owner)	13.01.19	Compensation related issue (for trees &	Issue resolved on 18.01.19 (both cases) through meeting/
9	Complex Line (Nagaland)		Concerned land owners of Loc.No.01- 28 of Zhadima village	06.06.19	Land)	discussion. Compensation framework explained to complainant to their satisfaction.
10			Land Owners at AP- 19-20	08.11.19	Compensation towards Approach road	11.11.19 through
11	220 kV D/C Killing- Mawphlang- New Shillong Transmission line (Meghalaya)	Mawph lang	AP 1-3	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		Nong thym ai	Land Owners	18.02.20	Land Owner disagreed to give NOC for construction works due to	DC, Ri-Bhoi has been intimated & matter has already taken up with the concerned forest & horticulture dept. for furnishing the latest rates of Trees & Crops.

	Name of the Subproject		Name of complainant	Date of complaints/	Main Issue of complaints	Status of complaint
	/State	Village	-	Court case	•	
13	132kV Kohima – Wokha (Nagaland)	Phezha AP-01	Medosao Semou	21.10.19	RoW issue (demand for higher compensation)	Discussion/ negotiation under progress in consultation with local authority.
14	220kV New Kohima- Mokokchung via Wokha (Nagaland)	Ehunny , AP- 113 to 121	Village council of Ehunnu	08.11.19	Compensation towards Approach road	Matter resolved on 22.12.19 through discussion with Contractor and Land owners.
15	220kV New Kohima - Mokokchun g 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.
16	132kV D/c West Phaileng- Marpara (Mizoram)	Pukzin g Vength ar	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, Mami & SDO/West Phaileng and relevant permission obtained.
17	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 measures	Resolved on 10.06.20. Matter discussed with local VCP, Lungsen relevant permission obtained
18	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.
19	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.

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 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. 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 December '20 is presented in **Table-10**.

Consultation	Pers	son Att	ended	State-wise Details					
Period	Total	Male	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),					
	200		20	Tripura 60(10 female), Meghalaya 40 (4 female)					
July- Dec.'19	335	296	39	Tripura : 27 (09 female), Meghalaya 44 (6 female),					
		4.0-	40	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)					
July- Dec.'20	130	95	35	Meghalaya: 44 (12 female), Nagaland: 86 (23					
				female)					
Total	3939	3048	891 = 22.62%						

Table -10: Details of Public Consultation & Gender Participation

Plate 6: Stakeholders Consultation during reporting period.



Meeting held at Pongo village regarding NOC for construction of 132kV Tuensang to Longleng Line on 22.09.20 (Nagaland)

Consultation with Land owner regarding rerouting of location (TW-05) in 220kV New Kohima -Mokokchung line on 23.08.20 (Nagaland)





Meeting with Villagers for construction of 33 kV Line (Yurembam-Noney to Keithelmanbi (Manipur)

Meeting with landowners/ affected persons on 02.05.20 for 33 kV Manu-Manu line (Loc. 10/0) (Tripura)

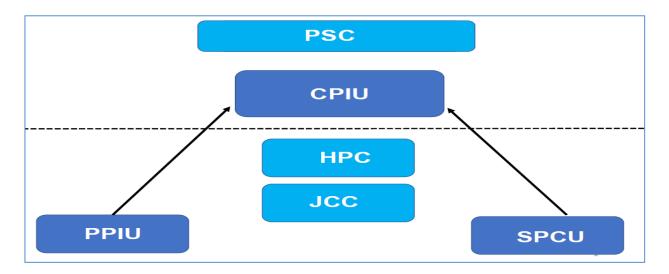


Meeting with land owner and village Headmen on 25.11.20 under Nongpoh section for 220 kV D/c Byrnihat-Mawngap-New Shillong TL (Meghalaya)

Meeting with locals and village Headmen on 18.11.20 under New Shillong section for 220 kV D/c Byrnihat-Mawngap-New Shillong TL (Meghalaya)

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)

	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
	construction	impact	illeasules	be monitored	anequency	responsibility	Schedule	
1	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	Setback distances to nearest houses – once	Implementing Agency (IA)/ Survey Agency (Sec-III. 3.6, 3.8 & 4.1 of Contract 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.
2	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 any, in existing processes and systems should be phased out and to be disposed of in a manner consistent with the requirements of the Government	Process, equipment and system design	Exclusion of CFCs stated in tender specification – once Phase out schedule to be prepared in case still in use – once	IA	Part of tender specifications for the equipment Part of equipment and process design	Complied. CFC free equipments are being procured. Not Applicable

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
3	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
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.

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 Minimise impact on agricultural land	Tower/pole location and overhead/ underground line alignment selection (distance to nearest dwellings or social institutions) Tower location and overhead/	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.
				underground line alignment selection (distance to agricultural land)	auth./ autonomous councils and land owners – once			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) undertaken to minimize impacts on agricultural land/produce to the extent possible.
			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			As explained in the preceding section, all such areas avoided during survey stage itself following the cardinal principle of ESPPF.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
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.	As per provisions of	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.
7	Line through protected area/ precious ecological area	Loss of precious ecological values/ damage to precious species	Avoid 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) Tower/pole	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 Part of detailed	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 forest/ protected area couldn't be avoided as per details provided in Table- 2 . During survey, every efforts
			wherever possible	location and overhead/ underground line alignment selection	with local authorities and design engineers - once		sitting and alignment survey /design	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-

⁴ In the instant subproject no fresh land acquisition (permanent) is involved hence this clause shall not be applicable. **NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period July-December, 2020** 69

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
								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.
			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 overhead/ underground line alignment selection	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	Avoid siting of line by careful site and alignment selection Minimise the need by using existing towers, tall towers and RoW, wherever possible	Tower/pole location and overhead/ underground line alignment selection (distance to nearest protected or reserved forest)	Consultation with local authorities – once Consultation with local authorities and design engineers – 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)

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 July-December, 2020

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Institutional responsibility	Implementation schedule	Compliance Status
	•						Act, 1980 have been obtained/ are presently under various stages of approval process at State Govt/ RMoEFCC level (for details refer Table-2). As 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, 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 or forest clearance please visit <u>http://forestsclearance.nic.in/</u> <u>Online Status.aspx</u>

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
10	Lines through farmland	Loss of agricultural production/ change in cropping pattern	Use existing tower or footings wherever possible Avoid sitting new towers on farmland wherever feasible	Tower/pole location and overhead/ underground line alignment selection Tower/pole location and overhead/ underground line alignment	Consultation with local authorities and design engineers – once Consultation with local authorities and design engineers –	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed alignment survey and design Part of detailed sitting and alignment survey /design	While passing through agricultural land construction activities are scheduled mostly during lean period so that damage to standing crop is avoided. However, full compensation as per assessment of revenue authorities is paid to land owner/farmer in case of inevitable damages.
11		Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance	selection Noise levels	once 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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
13	, ,	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.
			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.
	struction		1					
16	Equipment layout and	Noise and vibrations	Construction techniques and	Construction techniques	Construction techniques &	IA	Construction period	Complied/ Being Complied.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	installation		machinery selection seeking to minimize ground disturbance.	and machinery	machinery creating minimal ground disturbance- once at the start of each construction phase	(Contractor through contract provisions) (Sec-IX. PC 22.4.3.5, 22.4.1 of <i>Contract</i> agreement)		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 field crops (within one month of harvest wherever possible).	Timing of start of construction	Crop disturbance – Post harvest as soon as possible but before next crop – once per site	IA (Contractor through contract provisions) (Sec-II. 2.5 of <i>Contract</i> <i>agreement</i>)	Construction period	Complied/ Being Complied. 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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	activity/stage	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	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 complained received from resident near Padampukhri substation site for which necessary measures were undertaken and no further complaint received (refer Table-9).
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. However at few sites there
		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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
		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)
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	Vegetation marking and clearance control (area in m ²)	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

	Project	Potential	Proposed mitigation	Parameter to	Measurement	Institutional	Implementation schedule	Compliance Status
No. 23	activity/stage Trimming /cutting of trees within RoW	impact Fire hazards	measures 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.	be monitored Species- specific tree retention as approved by statutory authorities (average and max. tree height at maturity, in meters)	& frequency 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)
		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	Loss of vegetation	Construction workers prohibited from	Illegal wood	Complaints by local people or	IA	Construction period	Compiled/Being complied.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
	harvesting	and deforestati on	harvesting wood in the project area during their employment, (apart from locally employed staff continuing current legal activities)	harvesting (area in m ² , number of incidents reported)	other evidence of illegal harvesting – every 2 weeks	(Contractor through contract provisions) (Sec-II. 2.3)		Regular monitoring is undertaken to ensure compliance of applicable contract provisions by contractor.
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 .

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
		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.
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	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

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
				action taken to control and clean up spill)				compliance of applicable contract provisions by the contractor.
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, [dB(A)])	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) 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		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 Rs. 10.03 million & Rs 96.73 million have been paid for tree/crop and land compensation respectively to approx. 1486 affected persons till reporting period. (refer Table- 8)

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
34	Uncontrolled erosion/silt runoff	Soil loss, downstrea m siltation	Need for access tracks minimised, use of existing roads.Limit site clearing to work areasRegeneration vegetation to stabilise works areas on completion applicable)Avoidance excavation seasonWater 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 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
			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			
		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		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 above HFL (elevation difference in meters)	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	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
40	Inadequate construction stage monitoring	nstruction maximise environmental schedules programs throughout construction damages monitoring personnel	throughout construction	Complied/Being Complied All employees engaged in project execution including designated Environment Officers have been adequately trained. (refer Section 3.1.5).				
			effective environmental monitoring and reporting system using checklist of all contractual environmental	contract checklists and remedial actions taken	duly completed checklists of all contracts for each site -			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							
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. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
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	(lost work days due to illness and injuries) Training/awar eness programs and	Preparedness level for using these technologies in crisis – once each year Number of programs and percent of staff /workers covered – once each	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.
			emergency action plan Provide adequate sanitation and water supply facilities	Provision of facilities	year Complaints received from staff /workers			- do-
47	Electric Shock Hazards	Injury/ mortality to staff and public	Careful design using appropriate technologies to minimise hazards	Usage of appropriate technologies (no. of injury	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 sinages 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. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
50	Equipment specifications and design parameters	Release of chemicals and gases in receptors (air, water, land)	Processes, equipment and systems using cholofluorocarbons (CFCs), including halon, should be phased out and to be disposed of in a manner consistent with the requirements of the Govt.	Process,	Phase out schedule to be prepared in case still in use – once in a quarter	State Utility	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

(A Governmen	at of India Enterprise)
Don Phone: (0364) 253617	gtieh, Lower Nongrah, Lapalng, (Shillong)-793006 8, Fax: (0364) 2536397, Email: nerts_os@yahoo.in
उत्तर-पूर्वी क्षेत्रीय मुख्यालयः प्रचालन सेवाः NER	CONTRACTOR AND CONTRACTOR DURING CONTRACTOR AND A CONTRACTOR AND
REF: NESH/Safety/Audit/113/2020/50	Date, 24.02.2020
Fo, Fhe Project in-charge M/s USTL C/O.POWERGRID CORPORATION OF INDIA LTD, 132kV Powergrid Sub-Station, Khliehriat Meghalaya- 793200	
Sub: Sufety Check / Audit, Dear Sir,	
Under signed has visited construction work of (LILO) 1321 Chlichriat on 24.02.2020. The Safety check / Audit has bee tite engineers. During the Safety Check / Audit, some lapses observed. The observations are as follows:	n carried out along with your Safety officer /
The observations are mentioned as under:	
one side stringing has been completed. The back stay shall be Compressor machine being used at site observed without me emoved from working site and new compressor m/c with me The duly filled & signed check list (prior to start stringing actival able and a copy shall be submitted to POWERGRID. Pirst-Aid materials in the first aid box at site observed insuffi- leight pass, medical fitness certificate and induction training aubmitted to POWERGRID. During audit it has been observed that fall arrestor locks are hall be provided to each individual fitter for safe ascending Also, it was observed that simultaneous locking/anchoring of lone by fitters while working at height, the same shall be ensistimultaneous loading of conductor i.e. Top-Top, Middle-M tringing and providing of back stay shall be ensured where of ou are requested to look in to the matter seriously and comp	neter. The compressor m/c without meter shall be eter shall be provided. tivities) against each individual span shall be made icient, the same shall be refilled. g record of the fitters engaged at work site shall be e not provided to each fitter, the fall arrestor lock & descending. of both lanyard of full body safety harness is not sured to avoid fall from height. liddle & Bottom -Bottom must be ensured during ever required.
tetion shall be taken as per terms and condition of contract. Regional Safety, Shillong through concern site in-charge /site o ensure the implementation of proper safety measures at we	 The compliance report shall be submitted to the engineer of POWERGRID. Further, it is requested
Thanking you, Inclos: As above	(Pulakesh Roy)
Copy to:	Regional Safety Officer Shillong.
 Sr. GM (I/C AM), Shillong – For kind information GM (Safety, NERPSIP), Guwahati – For kind informatio DGM (NERPSIP), Khliehriat 	(Pulakesh Roy) Regional Safety Officer Shillong. Nandkisher (2012) 24/02/20 24/02/20 24/02/20 26/02/20 16, HPBAX: 6560121, Fax: 011-6560039 Grups: NATGRID

8.

Ref: USTL/20-21/TW-02/P-54B/1182	Unique
Dated: 25th June 2020	Life Tord
To, The Regional Safety officer Shillong <u>Through</u> Dy. General Manager (NERPSIP). Jurden Medical Jurden Manager (NERPSIP).	TA- STRUCTURES
The Regional Safety officer	TOWERS
Shillong Gr Yer were	62/07/2022 & TOWERS
Through	IN SEMLIMITED
Dy. General Manager (NERPSIP),	sologen
Power Grid Corporation of India Limited,	2
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)
 - Your letter no. NERPSIP/Safety/Audit/113/2019 Dated 14.11.2019
 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.

Compliance	Observations	SI No			
	Observation points on dated 14.11.2019				
oy of checklist is attached duly signed and POWERGRID for your record. nexure - I)	Prior to stringing 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.				
y of Health checkup report is attached f r record. nexure - II)	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.				
are ensuring the same procedure will pted. ures attached for your information.) nexure – III)	Proper stringing procedure i.e. simultaneous stringing of the circuit viz. top-top, middle-middle and bottom-bottom shall be ensured				
will arrange winch m/c while we on nging activity of hilly terrain section.	Power winch m/c is not available at site, required to be made available at working site for safe stringing activity in hilly terrain.	4			
ractable fall arrester provided to stringis kers. chase document and picture attached f r record. nexure -IV)	Retractable fall arrester is yet to be procured. The same shall be procured urgently.				
npressor machine replaced. ure attached for your record.) nexure – V)	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.				
kers. chase document and picture r record. aexureIVI) apressor machine replaced. <i>ure attached for your record.</i>) mexure - V] Works Office : Plot No. 263 to 268 & 306 to 1 Raipur - 493 221 (C.G.) INDL Phones: :0771 - 2324944, 2324	procured. The same shall be procured urgently. 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.	: 0788-4 788-228			

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



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 descending of the	arrester to workers and we are insuring the uses of Rope Grab fall arrestor while work at height. (Pictures attached for your information.) (Annexure - VII)		
.8	It is also found that I being used in horizonta type pulley. This m untoward incident / acc	al load instead of I- ay leads to any	We have also provided the I-type pulley to workers and insuring the in I-type pulley will be used in horizontal load.		
9	Load is given to chimne protection. Strong wo sand bag protection sha given any load to the to	y without adequate oden log/plank & all be given prior to	sand bag and we are insuring the tower leg		
10	First aid box shall be each working location.	made available in	First aid location.	Box provided to every working	
в	Observation points on	dated 24.02.2020			
1	During audit it has been back stay is not provide no 1A/0 (DD+0)		Back stay is placed at tower location no 1A/0 (DD+0) (Picture attached for your record.) (Annexure - VI)		
2	Compressor machine b observed without meter m/c without meter shal working sit and new con meter shall be provided.	r. The compressor Il be removed from mpressor m/c with		or machine replaced	
3	The duly filled & signed start stringing activiti individual span shall n copy shall be submitted	check list (prior to ics) against each ade 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	First aid box material refilled at every working location and we are insuring the availability of Fist Aid box with sufficient material at every working location.		
5	Height pass, medical and inductor training re engaged at work site sha POWERGRID.	ecord of the fitters	Copy of Height pass, medical fitness certificate and induction training record is		
6	During audit it has been arrestor locks are not fitter, the fall arresto provided to each individ ascending & descending	observed that fall Wc have provide to each fitter. for lock shall be fual fitter for safe		We have provided arrestor locks to each	
	for				
e : 0788- 0788-22: l : ustibhi	Austrial Area, Bhilai-490 026 (C.G.) 4082400, 2285409, 2281606 85574, 4082421 1ai@ustl.co.in; info@ustl.co.in 7310CT1985PLC002887	Regional Office 2nd floor, "Siti Centre" 26A Cantonment, G.S. Ros Shillong - 793002, Meghal Phone: 0364-2544012, Fax Email : ustishillong@ustl.ci	iya : 0364-2544046	Works Office : Plot No. 263 to 268 & 306 to 311, Urla Industrial Raipur - 493 221 (C.G.) INDIA Phones :0771 - 2324944, 3234945, 3295611, 421: Fax : 0771 - 2324450, 4215555 Email : ust[rpr@ust].co.in	

Unique STRUCTURES OWERS м т Also, it was observed that simultaneous We are ensuring the anchoring of both locking/anchoring of both lanyard of full lanyard of full body safety harness will be 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) C 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 Phones :0771 - 2324944, 2324945, 3295611, 4215500 Fax : 0788-2285574, 4082421 Shillong - 793002, Meghalaya Email : ustlbhilni@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

🗐 🖹 पावरग्रिड	पावर ग्रिड कॉर्पोरेशन ऑफ इंडिन्टा शिर्मि
POWERGRID	POWER GRID CORPORATION OF INDI A LIMIT (A Government of India Entery
Ref: NERPSIP/Mizoram/S&W/Sa:	fety/F-118/2019/675 Date: 27.12.2019
To, The Project Head T&D East, M/s Sterling & Wilson Pvt. Ltd, Kolkata	
Δ	ttn: Mr. Indrajit Das Gupta
Sub: Non-compliance of Safety as instructions regd.	spects, Unsafe work conditions, Non-compliance of stafety
2] NERPSIP/MIZOF 3] Safety Inspection R 4] Email on Non-sub 03.10.2019 5] NERPSIP/MIZOF	AM/S&W/SAFETY/F-118/2018/210 DATE: 03.11.2018 AM/S&W/SAFETY/F-118/2019/297 DATE: 22.01.2019 teport on 20.02.2019 mission of Monthly Safety Report dated: 02.04.2019, 27.07.2019 & AM/SAFETY/F-118/SW/2019/652 DATE: 26.11, 2019 the submission of Monthly Safety Report dated: 26.12.2019
PLAN, As per clause No. 8 you had as per clause No.11 you had accep awarded work, many times during officer was not present, after repeat monthly safety report is not compl conditions without using any safety	b.13 we shall be bound to impose a penalty of Rs 10,000/day e earliest.
Encl: As mentioned above	(TV RAO) DGM/NERPSIP AIZAWL
Copy To: 1] COO, S&W, Mumbai - For kind i 2] Project Manager, S&W, Aizawl	information.
Site Office: Alazard (NERPSIP), Tubranit, B.P. কিন্দ্ৰীয় কাৰ্যাৱিক: -কাঁৱেমিণি; খেল Corporate Office: 'Saudania?, P पंजीकुर कार्यालय: এ - ৯. জন্তু হুটান্দ্ৰখনৰ হাইল, কাৰ্যোখিনা মান, নাঁহ	8. 41. 41. 41. 41841, Pett: 4154181, มิลส์โสน-1945,045 (前日: norpsip.micoram@powergrid.co.in Or Tanheil, Dist., Alaani, Miaoram-796009 email: norpsip.micoram@powergrid.co.in 2 Heit 2, Best - 29, IJSEN - 122001, (Haryana) Tel: 0124-2571200-719 Iot No. 2, Sector-29, Gorugram-122001, (Haryana) Tel: 0124-2571200-719 दिल्ली - 110 016, दुरम्भाग, 011-26550112, 265564812, 265564832, (สัตณ์มีกา: 1401010, 1989G0403812) New Dehi-110 016, Tel 011-26550112, 26550121, 265564812, 265564832, Cin ; 1401010, 1989G04038121 Website: www.powergridindia.com

	Арр	endix-3 : Det a	ils of Changes i	in 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	26º14'58.61"N 91º34'18.98"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.

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	norprovidou	90° 05'6.21"E	was selected/finalized in the same locality approx. 5.7 km in east direction.
3	33/11kV Rymbai	25°19'32.34"N 92°19'22.44"E	25°13'26.70"N 92°22'37.88"E	Location changed by MePDCL due to non-finalization of earlier identified land. New land was selected/ finalized which is 12.5 km from south west from previous location.
4	33/11kV Latyrke (Sutnga)	25°20'36.54"N 92°28'21.42"E	25°22'41.00"N 92°25'54.26"E	MePDCL changed the land due to dispute in identified land. New substation location is 5.6 km south east from earlier location.
5	33/11kV Lumshnong	25º10'23.7"N, 92º23'33.54"E	25°18'21.62" N 92°22'58.12"E	MePDCL changed the substation location subsequently to Byrnihat instead of Lumshnong which is 12.5 km north from earlier location.
6	33/11 kV Rajaballa Bhaitbari	Not provided	25°44'7.35"N 90° 0'16.60"E	Location changed by MePDCL due to non-finalization of earlier identified land. New land was selected/ finalized in same locality approx. 2.5 km from earlier location.
7	33/11 kV Mawkynrew	25°25'09.11"N 92°00'03.36"E	25° 24.787' N 91° 59.817' E	Location changed by MePDCL due to non-finalization of earlier identified land. New land was selected/ finalized in same locality approx. 700 m south west from earlier location.
8	33/11 kV Mawpat	25°36'40.27"N 91°57'08.12"E	25° 35.647' N 91°54.311' E	Location changed by MePDCL due to non-finalization of earlier identified land. New land was selected/ finalized which is 5 km south west from previous location.
Tri	pura			
1	33/11kV Manughat	22°59'45.60"N 91°38'60.00"E	22°59'53.88"N 91°38'28.28"E	New land finalized approx. 900 m towards north west as the earlier identified land was found to be a forest land.
2	33/11kV Srinagar	23°1'43.74"N 91°33'40.28"E	23° 1'24.52"N 91°33'50.99"E	New land finalized approx. 600 m towards south east as the earlier identified land was found to be a forest land.
3	33/11kV Nalchar	23°32'56.1"N 91°21'41.2"E	23°32'39.22"N 91°21'20.35"E	Earlier identified land was old Nalchar Tehsil Office & Polling booth/ station. Thus, DM Bishramganj allotted alternative land. Present location 700 mt towards south direction.
4	33/11kV Durganagar	23°39'9.83"N 91°14'8.51"E	23°40'6.92"N 91°14'59.91"E	Earlier identified land was old Durganagar Tehsil office & Polling booth/ station. Thus, DM Bishramganj allotted alternative land approx. 2.2 km northeast from earlier location.
Ма	nipur			
1	33/11 kV Andro	24°41'59.35"N 94° 1'30.24"E	24°42'24.48"N 94° 1'34.80"E	Location changed by MSPCL due to non-finalization of earlier identified land. New land finalized in nearby locality (approx. 700 m north) adjacent to State PWD Road.
2	33/11 kV Pishum (GIS)	Not provided	24°45'5.84"N 93°56'3.63"E	Due to RoW issue location changed and new land finalized by MSPCL and handover to POWERGRID.
3	33/11 kV Leimapokpam	Not provided	24°40'55.72"N 93°50'35.45"E	New land selected/finalized by MSPCL approx. 2.5 km from earlier location.

NERPSIP Semi-Annual Safeguard Monitoring Report for period January-June, 2020

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	Nagaland						
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

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			(F						
	315		NOTI	CE					
Ref I					28/11/2020				
To	Gandh	i kum	an Jamatia.						
Sub	- Utili con	ization of nection w	land for tower footing a th " Ida.p	Loc. No. 28/1	type of tower DA				
Dear	As per sect	or constru	the Electricity Act, 2003, ction of tower footings/st	naina etc. related to t	the above mention	and words			
he SL	Sub-Divisional	Magistrat	to, Uden para will	assess necessary con	mpensation in this me of present occ	respect.	Notice t		
No.	doc	umont a	nd other	itilization	and relation	apier			
2	Plot No. :- / Khatian No.	11817	2535	5976.759m 5.659 m ²	self		owner fo	or land	d
4	Jote No.:-	-					compen	satio	n
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-	Un 28Th	The h		0100LO	一名、四				
Signa	ture of the Power Insid Ltd. Name and Se	TUR	f Signature of Tal Name & Se		ture /Thumb impression Owner / Present Occupi				
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The The The	D.M. Grom Deputy Gene S.D.M., Ud	aipuz-	per, TSECL. for kind information. I	Ude for favour of kind inf t is highly requested t	ipur, Gemeti Dietric	π.			
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Land Compensation Assessment duly certified by SDM

(A.ROY) Sub-Divisional Magistrate, Udaipur, Gomati District

GOVERNMENT OF NAGALAND OFFICE OF THE DEPUTY COMMISSIONER KOHIMA: NAGALAND

> CIRCULAR Dated Kohima the 12 H March 2020.

NO. REV/PWR/2014/ 4/0 /// This is to inform all the concerned landowners for construction of 220 KV D/C New Kohima (Zhadima)- Mokokchung, Transmission line under NERPSIP Package NAG-TW-01, 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 16th March 2020 at 11:00 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/I.D Proof and Bank Passbook Xerox copy. Payment to any other representative other than the concerned person shall "NOT" be entertained.

> This is issued for strict compliance by all concerned Sd/-(GREGORY THEJAWELIE)NCS

NO. REV/ PWR/2014/ 410 /// Copy to:

1. The Commissioner, Nagaland for information.

- 2. The Engineer, NERPSIP, Nagaland, for information and to depute a representative during disbursal of cheques to landowners.
- 3. The Village Council Chairman Teichüma / Chiechama / Botsa / Terogvunyu / Tseminyu/ Tesophenyu / Nsunyu / Ehunnu, for information and to be present or send a
 - representative for identification of landowners. List of landowners enclosed.
- 4. The Head DB to serve the circular to all concerned and return the same. 5. Shri.
- 6. Office copy.

(KELEVITUO NISA)NCS Revenue Officer Kohima: Nagaland

Deputy Commissioner Kohima: Nagaland

Dated Kohima the 17th March 2020.

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

Acknowledgement by Land owner on receiving of compensation amount

पावर ग्रिड कारपोरेशन आफ इंडिया लिमिटेड

POWER GRID CORPORATION OF INDIA LIMITED NERPSIP, KOHIMA, NAGALAND

TO WHOM IT MAY CONCERN

surer thousand two hundred rinety six has been duly compensated

damages incurred during the construction of LILO of 132kV S/C kohima - wokha at New

Khoutve

This is to certify that an amount of Rs

Hinety

to Shri/Ms

Sa.ft.

Witness

17296.00

....(In words)

..... for the land and surface

(Signature of landowner)

তি भारतीय स्टेट बेंक State Bank Of India (00214)-KOHIMA NEAR DEPUTY COMMISSIONER'S OFFICE KOHIMA NAGALAND 797001 Tel: 370 222421 Fax: IFS Code: SBIN0000214 SWIFT:	atrate a valide at little for /value non a sectors on 290620000000000000000000000000000000000
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Compensation Cheque to Land owner distributed by DC, Kohima

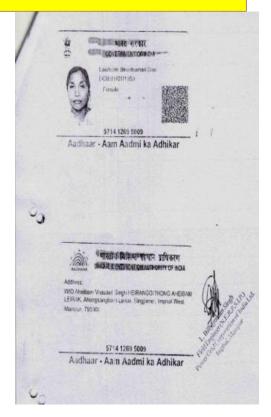
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NO. REV/PWR/2014////	Dated Kohima the March 2019	SI. No.	Items	Categories	Size	Rate
	14th	1.	Timber	Class A	Girth (1'-3')	₹. 200/ tree
	105.00.000				Above Girth	
		2.	Timber	Class 'B' & 'C'	Girth (1'-3')	₹. 160/tree
NC	DTIFICATION				Above Girth	
*		3.	Firewood: (more	Good variety		₹. 150/tree ₹.75/tree
The undersigned is pleased to notify	also forth a		than 1' girth only)	Common variety		
trees /plantation / Land under Power Grid Land within Kohima District.	y the following rates of compensation for damage of d Project within Kohima District trees /plantation /	4.	Bamboo	Large variety Jatti variety		₹.60/plant ₹.50/plant
 Land rates to be compensated in ful 	II (i.e 100%) as determined by the rates fixed.	Fruit tri Sl. No.		Fruit bearing (₹) Fixed rate	10040	on-Fruit bearing (₹ xed rate
 Damage around the RoW corridor to 	o be compensated as ner existing rates	1.	Orange	1400 /tree	and the second	0/tree *
 For approach road, damage compen 	asation will be given to the landowners	2.	Pear	350 /tree	175/tree	
	a contractive and a second	3.	Banana	350/tree	175/tree	
		4.	Guava	350/tree		5/tree
Table for RoW width for different voltage li	6.92.91	5.	Pineapple	5200 per acre of sucker		ime rate as fruit earing
rable for now which for different voltage li	nes:	6.	Mango	875/tree	35	60 /tree
Transmission Voltage in kV	Width of Right of Way in metres	7.	Jack Fruit	350/tree		75 /tree
66 kV	18	8.	Peach	350/tree		75/tree
	10	9.	Plum	350/tree	17	/5/tree
132 kV	27	Catego	ries of land:			
220kV				Rate per Sqft (₹)		
The set of control of	1.	Terrace / Residential ₹. 150		₹. 150		
400 kV S/C	46	2.	Developed Area ₹. 100			
		3.				
400kV D/C	46	4.	Jhum 국. 70 tablishment costs and 2% Contingency costs will be included.			
765 S/C (With delta configuration)	64	8% Esta	ablishment costs and a	276 Contingency cost	s will be included.	
765 D/C	67					0
						ML



Notification/Fixation of Rate by Concerned Authority

 Image: Bar and a state a

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



Appendix- 5:	Details of Bor	row Area Managem	nent /Improvement
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SI No.	Name of Substation	Total Volume (m ³)	Coordinates	Source			
		<i>, ,</i>	Assam				
1	132/33 kV Tangla	7040	26°39'54.65"N 91°54'02.66"E	Site developed as pond after due 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	25º24'47.89" N 91º59'52.16" E	Community land utilized for development of road in agreement with community.			
			Tripura				
1.	132/33kV Mohanpur	1344	23º57'0.57" N 91º23'4.05" E	Borrowed earth from private land with due consent from land owner.			
2.	132/33kV Rabindranagar	814	23º27'35.76" N 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				

DUPLICATE FORM - "O" Duplicate TRANSIT CHALLAN DIBRUGARH FOREST DIVISION BIKE Permit/Eanthy Shit /1046 19 01 MALEO Assisten None envelopr at F Dibrugarti Division Date Book No 6 -----1< Hirup East Division, Bas Shri Mrinal Dowarah Chowkidinghee, Dibru 1 Name and address of the Permit : SRI SURAJ BHAN MITTAL Nowjan Habi Gaon, Dag No. 90x91 Patta No. : 28 2 Details of the area of Permit 2. Details of the area of permits : Village : Saukuchi, Mouza : Beltola under Dispur Revenue Circle Dag No.: 67, Patta No.: 142 3. Location of area Khowang Range Khowang Range Under Dibrugarh Division 4. Range of the Division where the 3. Permit No. 10/1021 dt+-25/2/11 materials is located Earth Guwahati Range Kamrup East Division, Basisthe 5. Name of the Minor Minerals Range and Division where DBR 14/4- /61/2011/ 1159-60 6 Permit No. & Date of issue 15/1/2018 7 Date of expiry of permit, of the Material : EARTH NECCON POWER & ENFRAC 8. Name & address of the Perso & Address of the : SELF to whom materials has been A.T. Road. Jorhan m Mat sold & Supplied 10 cm (Ten) 9 Quantity of materials being transported under this transit Challan : 10 m³ AS0180 2495. AS- 06 BC - 1777 10. Vehicle No. Saminan Ras 9. Place and Delivery of Materials : 132/33 KV Hajo 5/5 11 Name & Address of the Driver 220 KV /132 KV Behinding & 10. Date and time of Despatch. 12. Place of delivery of materials 6 15 12/14-13 Date & time of despatch 99 11 29 11. Qate of Expiry DDO 55/2016/88-A/1060 14. DEIAA Dibrugarh GOVT, OF ASSAL Walkas 4 dtd - 28 3.17 Letter No. Bitu ure of the Biststonal Porest Officer Signature of permit holder Seal of the Office EAST BIVE

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

01-20-20-2029 TN JEL DAT Government of Manipur Office of the Divisional Forest Officer: Central Forest Division Porton Finden IMPHAL: MANIPUR CERTIFICATE Imphal, the 21st March, 2018 Division, Gost \$120.0 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 aneral studo Calegor in mendles greenin ans and hundred eighty eight) only being the royalty and GST for 110 cu.m of earth for filling at 33/11 KV Power Sub Station at Top Khongnangkhong, Imphal vide T.R. V No. 455926 dt. अल्ड किंदू आरि एकमाव राभारत जासाहत न्वीत्रक निरायल 20/03/2018. מוציונה אווידי לשנה אוי שארא געוני האוויד איניים ्रिति मान वादाल जागि स्टेर देखरू दर्द्या मेर उत्तर (कारिया आज्या निर्णाठ प्रदि या। निरित माडवंगरं सामिड (L. Joykumar Singh) Divisional Forest Officer, Central Forest Division Government of Manipur. ontwicks sters fasser forto fronter -T.R. 5 No. 465326 Coreil - societio , sporter a. - 2004. 20 भग्रह्मा - आदि , अमीचल - भूर्व उड्डिलिया Dated " (कार्डान्ड आहर्यन - नेक्क्निम् Dated in cash By cheque of a account of eight hunder By cheque of account of eight on the date In payment of the canthe it of eum. 290 Royalty - Ro. 2750) 7:575557R3. 691 2:52 JUSTRO. 691 WISIG SITZY 2888/2 Initial 20/3/18 Designation গ্র্যান্য গ্রাহা **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

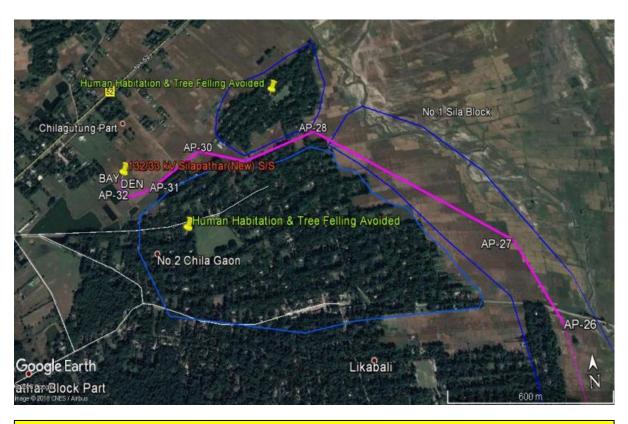
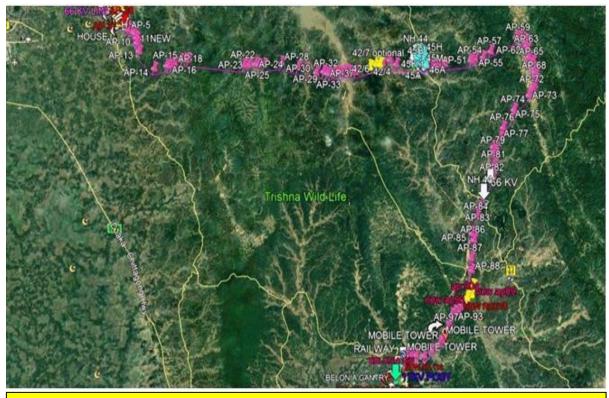
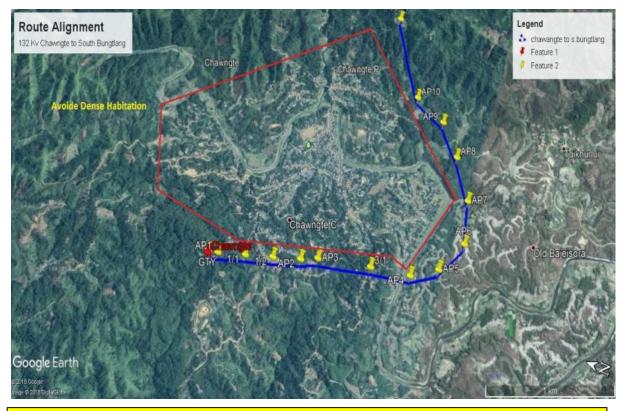


Plate 7: Avoidance of Environmentally and Socially Sensitive Areas

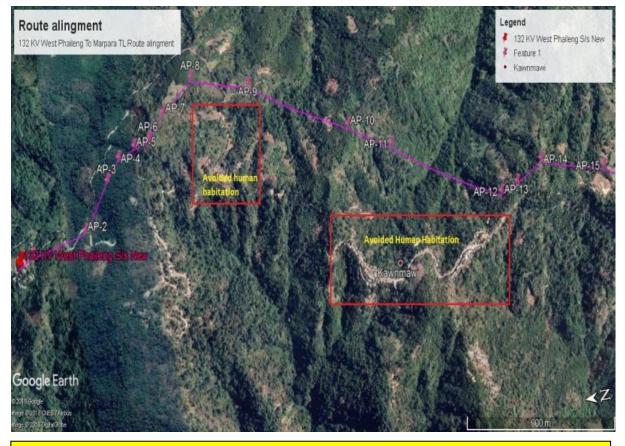
Avoidance of Human Habitation & Tree Felling in Dhemaji-Silapather 132kV line in Assam



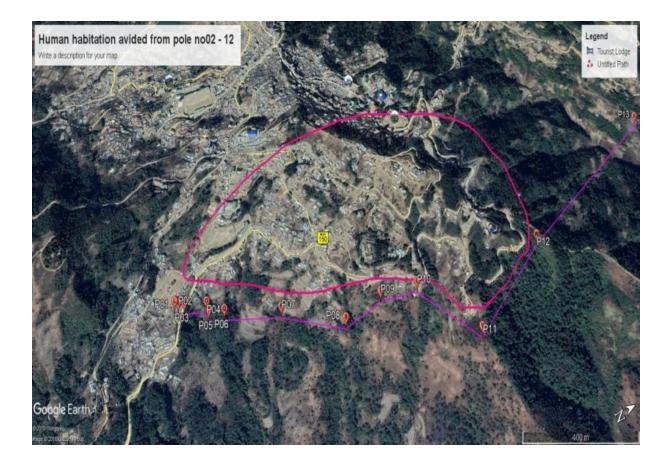
Complete Avoidance of Trishna Wildlife Sanctuary by adopting even more circuitous route (AP-14 to AP-109)for Rabindranagar- Belonia 132kV line in Tripura

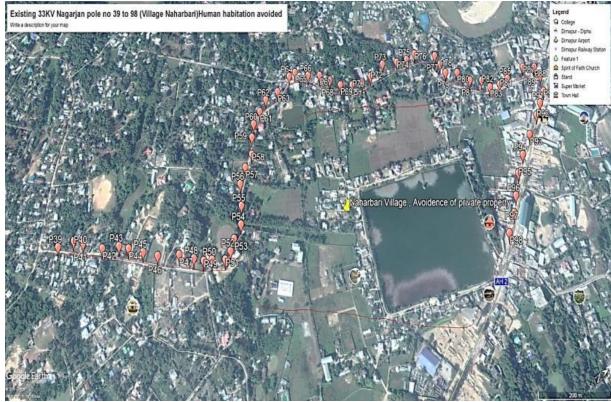


Avoidance of dense habitation area (AP-1 to AP-15) for Chawngte-S. Bungtlang 132kV line in Mizoram

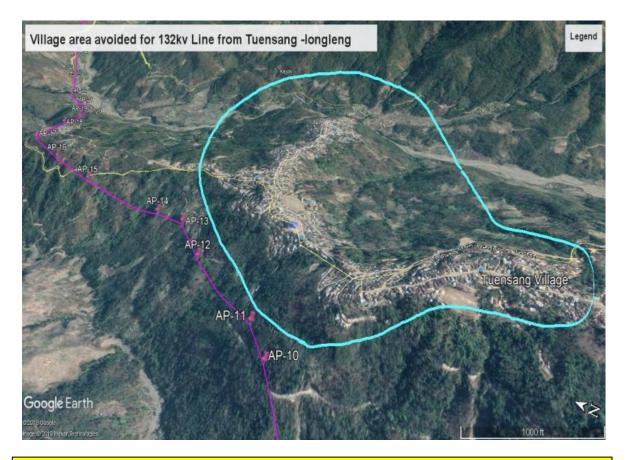


Avoidance of habitation area (AP-1 to AP-16) for West Phaileng- Marpara 132kV line in Mizoram

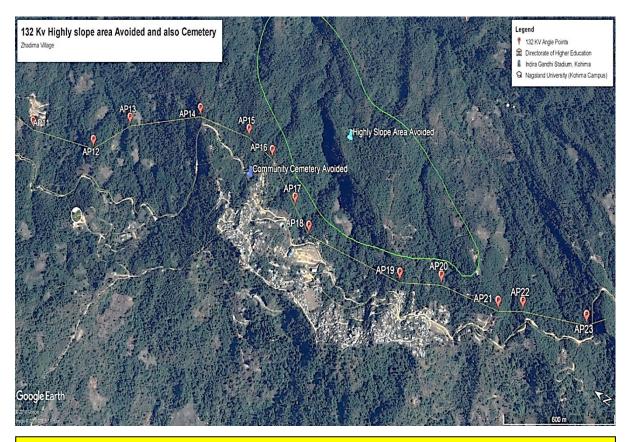




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Avoidance of habitation area for Tuensang – Longleng Complex 132kV line in Nagaland



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 Rof No Pang - 2020 Date 22/09/2020 NO-OBJECTION CERTIFICATE This is to certify that the construction of upcoming 132 KV 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 project a grand success. K. CHUNGTRA 22-9-020 OFFICE OF THE IMCHONG VILLAGE COUNCIL B.P.O Sakshi HQ. Dist. Longleng - 798625 : Nagaland Date. 18./11/2020 Ref. No OBJECTION CERTIFICATE This is to cestify that the construction of upcomming 132 KV. Line Twensong & Congleng gros 76/0-TO-830/0. Under the junistiction of yinoding village Council. Hence the village puttority has duly issue 'No objection Cestific Te' PS erection duly issue 'No objection Cestific Te' PS erection of book any time as your son Convenience. Wishing the project a grant Success. CHairman Timchong village carning. Chairman Vimakons Vimakons Villago Councit



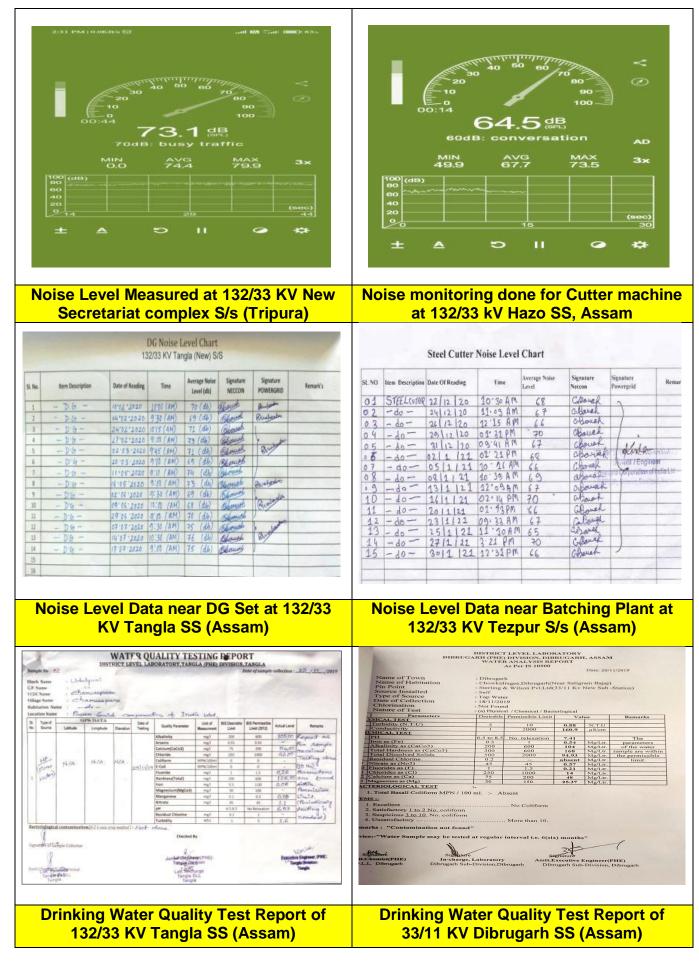


Plate- 11: Community/Villagers Safety



Display of Signage Board



Proper Barricading of Work Area



Safety Awareness and Information dissemination before start of work

Plate -12 : Permission/Way Leave for Rail/Road Crossing & UG Cable lying work

GOVERNMENT OF ASSAM OFFICE OF THE EXECUTIVE ENGINEER PWD (ROADS.) NORTH GUWAHATI STATE ROAD DIVISION AMINGAON: GUWAHATI 31 NO.NGSDD/Com 58/ 14.75 Date 2 / 11 / 2019 To, The General Manager, NERPSHIP PM-II. Guwahati Sub: Permission for excavation on the Road for laying of 132 KV underground power cable. under North East Regoinal Power System Improvement Project (NERPSIP) at Guwahati Ref: i) Your letter no NERPSIP/GHY/1024/PWD/2019/2221 dated 23.09.2019 ii) Our letter no NGSRD/Com-35/1016 dated 30/08/2019 iii) The Superintending Engineer, PWRD, Guwahati ARIASP Circle letter no ARIASP/Misc-74/1762 dated 23/09/2019 iv) The Managing Director, Guwahati Metropolitan Drinking Water & Sewerage Board letter no GJB/GEN/37/2017/295 dated 01/11/2019 Sir. With reference to the above, I am to inform you that as per the discussion in the meeting reld on 6th November, 2019 in the Office Chamber of the Addl. Chief Secretary, Guwahati Development Department and as directed by Superintending Engineer, PWRD, Guwahati ARIASP Circle, the necessary permission for laying underground power cable from Panbazar Fly-Over Police point to Kamakhya Gate on A.T Road (Ch 0.00 m to Ch 3900.00 m) is hereby accorded subject to the following terms and conditions. Terms & Conditions: 1. The laying of underground cable will be as per the specification of the concerned department. 2. During laying of cables, the traffic control management will be arranged from your end. 3. During laying of cables, the safety of other underground utility service should be maintained from your end. 4. Restoration of the road upto the pre digging status must be taken up immediately from your end 5. No construction materials and debris should be dumped within the Right of Way of the road. 6. During construction/repair of the road on later stages, if any damage occurs to the underground cables, the Public Works Department will not be responsible for the same. The NOC is subject to no objection from other statutory organization such as District Administration, 7. District Police Authority, PHE/APDCL etc. Yours faithfully, Executive Engineer, PWD, (R) North Guwahati State Road Division, Amingaon, Guwahati-31 /11/2019 dated : Memo no:NGSRD/Com-58/ 1. The Superintending Engineer, PWRD, Guwahati ARIASP Circle, Guwahati-21 for favour of kind Copy to: 2. The Asstt. Executive Engineer, PWD, Guwahati State Road Sub Division-II, Guwahati-01 for information and necessary action.

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Executive Engineer, PWD, (R) North Guwahati State Road Division, Amingaon, Guwahati-31

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

Plate -13: Photographs of various measures undertaken at construction Sites in response to COVID-19 pandemic





