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

(Reporting Period: January-June, 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-4 /2020/R1

Aug., 20/Nov. 20

		ABBREVIATIONS
ADC	_	Autonomous District Council
APDCL	_	Assam Power Distribution Company Limited
AEGCL	_	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	—	Project Implementation Unit
POWERGRID	—	Power Grid Corporation of India Ltd.
PPEs	-	Personal Protective Equipments
PMU	—	Project Management Unit
NEDDCID Comi: Am	n 110	I E & S Safeguard Monitoring Report for period January-June, 2020 2

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	—	Jnited 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/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.

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 publically disclosed. The present Semi-Annual Safeguard Monitoring report enlisting details of compliance of various E & S safeguard measures for period January-June, 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 423.98 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 substation, 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. 10.03 million were paid to 310 affected farmers/land owners till reporting period. Similarly, a total amount of Rs. 96.73 million has already been paid to 1037 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 Right-of-Way (RoW) for lines and temporary impacts due to small scale construction activities in substation during construction period can never been avoided completely. The project specific mitigation measures enlisted in EMP, which is also part of contract documents are being applied appropriately in different stages of project and regularly monitored for 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 compliants are minor in nature which were also resolved instantly and there have been no court case or major complaints registered till date. As of June 2020 only of 4 cases out of total 22 complaints remains 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 3781 persons participated in safeguard consultation process including 856 female participants, which is approx. 22.64% 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 "North Eastern Region Power System Improvement composite scheme viz. 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	Governm		
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	260		

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 publically disclosed. The present Semi-Annual Safeguard Monitoring report covering the detail status of compliance of various E & S safeguard indicators for period January-June 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:

Transm	Transmission/ Sub-transmission (132kV & above)				Distribution (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 June'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	Anticipated/ Revised Date of	Physical Progress (in%) as on
				NOA	Completion	
		AS	SAM			
1	TW 02	1 no. 220 kV Line (50 km)	10 Ocť 17	Apr'20	Mar'21	35%
2	TW 04	1 no. 132 kV line (36 km)	8 Sept'17	Mar'20	Mar'21	25%
3	TW 05	1 no. 132 kV line (53 km)	1 Sepť 17	Mar'20	Mar'21	51%
4	TW 07	1 no. 220 kV (33 km) & 7 nos. 132kV line (53 km)	30 May'18	Nov'20	Mar'21	4%
5	P 01	Pile foundations	18 Sepť 17	Mar'20	Mar'20	56%
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	85%
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	52%

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.

<u> </u>		0 400/00 11/ 0	40.4 140	A 140	NA 104	770/
8	SS 03	2 nos. new 132/33 kV, 2	12 Aug 16	Aug 19	Mar'21	77%
		nos. Ext. & 1 no. Aug of				
	00.04	132/33 kV substation.	0.14.0	NA 140		4.4.0/
9	SS 04	3 nos. new substations	6 May'16	Mar'19	Mar'21	41%
		(1no. 220/132/33kV & 2				
		nos132/33kV) and 1 no.				
		Extn. of 132/33 kV				
	D 140.04	substation		1 140	5 10 (700((00)
10	DMS 01	4 nos. new 33/11kV	20 Oct'16	Jun'19	Dec'21	70%(SS)
		substation & 7 nos. 33 kV				31%(Line)
	D 140.00	lines (119 km).				
11	DMS 02		23 Dec'16	Jul'19	Mar'21	94%(SS)
		substation & 11 nos. 33 kV				9%(Line)
		lines (146 km)		0 110		
12	DMS 03		23 Dec'16	Sept.'19	Mar'21	64%(SS)
		substation & 9 nos. 33 kV				50%(Line)
40		lines (134 km)		0 - 1140		000/
13	DMS 04	4 nos. new 33/11kV	8 July'16	Sept'19	Dec'20	22%
		substation & 11 nos. 33 kV				
		Underground cable lines				
		(80 km)	NIPUR			
1.4			NIPUR			
14	TW 06	4 nos. 132 kV line (85 km) & renovation of 1 no.				
			21 May 10	Nov'00	Nov20	760/ (Line)
		existing 132 kV line (91 km) and stringing of 2 nd circuit	ST May To	Nov'20	Nov'20	76%(Line)
15	SS 01	in exi. 132kV line (78 km)	2 lop'10	Lub./00	Nev?20	260/ (22)
15	33 01	1 no. new 132/33kV & 2	3 Jan'18	July'20	Nov'20	26%(SS)
		nos. Ext./Aug. of substations.				
16	SS 02	2 nos. Ext. & 2 no. Aug. of	8 Doc'17	Jun'20	Dec20	64%
10	33 UZ	132/33 kV substation.	o Dec 17	Juli 20	Deczu	04 70
17	SS03	1 no. new 132/33 kV & 1	3 Jan'18	July'20	Nov'20	58%
17	3303	no. Ext & 1 no. Aug. of	5 Jan 10	July 20	100 20	50 %
		132/33 kV substation.				
18	DMS 01	7 nos. new 33/11kV	3 Mar'17	Dec'19	Dec'20	61%(SS)
10		substation & 7 nos. 33 kV		Dec 19		57%(Line)
1		lines (68 km)				
19	DMS 02	2 nos. new 33/11kV	16 Dec'16	Sep'19	Commiss	100%(SS)
13		substation & 2 nos. 33 kV			ioned	100%(SS)
1		lines (20 km)			IUIICU	
20	DMS 03	2 nos. new 33/11kV	18 Mar'16	Dec'18	Sep'20	100%(SS)
	5100 00	substation & 2 nos. 33 kV			00020	85%(Line)
		lines (23 km)				
21	DMS 04	2 nos. new 33/11kV	18 Mar'16	Dec'18	Commiss	100%(SS)
	5,000	substation & 2 nos. 33 kV		20010	ioned	100%(CC)
1		lines (20 km)				
	MEGHALAYA					
22	TW 01	1 no. 220kV line (122 km)	29 Jun'16	Jun'19	Mar'21	28%
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		Aug'19	Dec'20	43%
-'	22 01	132/33 kV substation.		,	20020	.0,0
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25 SS 02 2 nos. new 1 no. Ext. of 220/132 kV substation 6 Jun'16 Jun'19 Jun'19 Dec'20 81% 26 DMS 01 4 nos. new 33/11kV substation & 4 nos. 33 kV lines (65 km) 13 July'16 Apr'19 Mar'21 79%(SS) 22%(Line) 27 DMS 02 3 nos. new 33/11kV substation & 7 nos. 33 kV lines (63 km) 27 May'16 Feb'19 Sep'20 78%(SS) 45%(Line) 28 DMS 03 4 nos. new 33/11kV substation & 7 nos. 33 kV lines (79 km) 17 May'16 Feb'19 Sep'20 94%(SS) 27%(Line) 29 TW 01 4 nos. new 33/11kV substation. 12 June'17 Feb'20 Mar'21 7% 30 TW 02 5 nos.132 kV lines (62 km) 12 June'17 Feb'20 Mar'21 53% 31 TW 03 6 nos. new 13/2/33 kV substation. 4 Nov'16 Nov'19 Mar'21 57% 33 SS 02 2 nos. new & 1 no. Ext & 3 nos. Aug. of 132/33 kV substation & 9 nos. 33 kV lines (121 km) Nov'16 Nov'19 Mar'21 26%(SS) 20%(Line) 36 DMS 01 7 nos. new 33/11kV substation & 11 nos. 33 kV lines (128 km) 20 Jan'17 Oc'1				1			
substation & 4 nos. 33 kV n n 22%(Line) 27 DMS 02 3 nos. new 33/11kV 27 May'16 Feb'19 Sep'20 78%(SS) 28 DMS 03 4 nos. new 33/11kV 17 May'16 Feb'19 Sep'20 27%(Line) 28 DMS 03 4 nos. new 33/11kV 17 May'16 Feb'19 Sep'20 94%(SS) 29 TW 01 4 nos. new 33/11kV 12 June'17 Feb'20 Jun'21 9% 31 TW 03 5 nos.132 kV lines (87 km) 12 June'17 Feb'20 Mar'21 9% 31 TW 03 5 nos.new 132/33 kV 4 Nov'16 Nov'19 Mar'21 53% 33 SS 02 2 nos. new & 1 nos. Ext, and 2 nos. Aug. of 132/33 kV substation. 4 Nov'16 Nov'19 Mar'21 57% 34 SS 03 3 nos. new 33/11kV 20 Feb'17 Nov'19 Mar'21 26%(SS) 20%(Line) inse (121 km) 20 Jan'17 Oc'19 Mar'21 15%(SS) 35 DMS 03 5 nos. new 33/1	25	SS 02	2 nos. new 1 no. Ext. of 220/132 kV substation	6 Jun"16	Jun'19	Dec'20	81%
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			· · · · ·				
46 SS 01 2 nos. new 132/33 kV 5 Dec'17 Jun'20 Nov'20 7%							
	46	SS 01	2 nos. new 132/33 kV	5 Dec'17	Jun'20	Nov'20	7%

		substation.				
47	SS 02	1 no. new 132/33 kV & 3	30 Nov'17	May'20	Nov'20	12%
		nos. ext. of substation.		-		
48	SS 03	1 no. new 132/33 kV & 1	14 Dec'17	Jun'20	Dec'20	32%
		no. ext.(220/132 kV) of				
		substation				
49	SS 04	1 no. new & 1 no. ext. of	13 Dec-17	Jun'20	Dec'20	22%
		132/33 kV substation				
50	DMS 01	2 nos. new 33/11kV	12 Feb'18	Nov'20	Nov'20	20%(SS)
		substation & 3 nos. 33 kV	_	_	-	33%(Line)
		lines (2.5 km)				
51	DMS 02	3 nos. new 33/11kV	11 Jan'18	Ocť20	Ocť20	12%(SS)
		substation & 5 nos. 33 kV				7%(Line)
		lines (59 km)				()
52	DMS 03		22 Sep'16	Jun'19	Dec'20	81%(SS)
		substation & 2 nos. 33 kV				62%(Line)
		lines (5 km)				. ,
53	DMS 04		22 Sep'16	Jun'19	Ocť20	70%(SS)
		substation & 1 no. 33 kV				29%(Line)
		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
-		· ·
Description of CovenantsLoan Agreement (LA)The Borrower shall make its best efforts to ensure that the Participating States:(a) carry out the 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	Reference LA, Schedule-2, Section-I (D)	Status of Compliance These covenants are being complied as part of Project Agreement & Separate Agreements with IA & State Utilities.
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		
Bank.		
Project Agreement (PA)		
The Project Implementing Entity shall: (a) carry out the Project in accordance with the SS-ESPPFs, IEARs, EMPs, the RAPs, CPTDs and TPDPs prepared, and/or to be prepared in form and substance satisfactory the Bank, pursuant to paragraph 2 of this sub-section, in accordance with the objectives, policies, procedures, time schedules, compensation arrangements and other provisions set	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
forth in the SS-ESPPFs (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		Being complied.
(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 agreement of the Bank.		No such safeguard issues encountered till reporting period. Will be complied if such situation warrants.
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; 		Complied/ Being complied.
 (b) 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 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/Being 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; and (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 RAP. 	PA, (Schedule), Section- I, E, Para 3	Complied/Being Complied. All approved safeguard reports stand disclosed publically on website of POWERGRID & State Utilities. Below is the link to access such reports; <u>https://www.powergridindi</u> <u>a.com/ner-agreements- and-mous</u> Complied/ Being complied. Refer in Table- 2 for details of forest/ wildlife clearances along with their present status
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, 7 nos. of CPTD have already been disclosed on website. Another 7 nos. of CPTD stand submitted to Bank in Aug./Nov'19 Joint meeting proposed to finalize CPTDs based on Bank's observation yet to be held. For details of CPTD status please refer Table-1.

Description of Covenants	Reference	Status of Compliance
 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. The Project Implementing Entity shall: (a) maintain monitoring and evaluation protocols and record keeping procedures agreed with 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 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 	Reference PA, (Schedule), Section- I, E, Para 5 PA, (Schedule), Section- I, E, Para 6	Status of Compliance Complied/ Being complied. 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
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		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

Description of Covenants	Reference	Status of Compliance
activities, all 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 similar fashion as the disclosure of the Safeguard Documents		For details of FEAR status refer Table-1 .
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 (Date of	Status of Safeguard Documents (Date of Approval/Disclosure)			
	Disclosure)	Subprojects District & Brief Scope of works	IEAR	CPTD	FEAR
Assam	29 th June 2015	Dhemaji 1 no. 132kV & 2 nos. 33kV line, 1 no. each 132/33kV & 33/11kV substation Tinsukia & Dibrugarh 1 no. each 220kV & 132 kV and 4 nos. 33 kV line, 2 nos. 132/33kV & 3 nos. 33/11 kV substation	13 May 2015 8 July 2015	22 June 2018 3 Oct. 2018	M/s Green Circle Inc., Vadodara appointed as Independent Consultant for FEAR preparation in Dec'18. Consultant has submitted Draft reports on 10 th May'19, 21 st Oct' 19 & 7 th Apr.'20. Since the quality of these draft reports were not up to the mark, The World Bank/ POWERGRID

		Kamrup 2 nos. 132kV & 11 nos. 33 kV Underground line, 2 nos. 132/33 kV & 5 nos. 33/11 kV substation	20 July 2015	N.A. (UG lines only)	suggested to revise the report in line with the approved ToR and based on specific comments/ observations. Identification of Independent Agency under progress. However, considering competency/ understanding level of the Independent
		Kamrup Rural, Udalguri & Sonitpur 1 no. 220 kV, 5 nos.132 kV & 12 nos. 33 kV line, 1 no. 220/132kV, 3 nos. 132/33 kV & 5 nos.33/11 kV substation	14 July 2015	Under preparati on	Consultants already engaged, POWERGRID requested Bank to let it undertake the preparation of these reports in-house.
		Golaghat, Nagaon, Jorhat, Sibsagar & Karbi-Anglong 2 nos.132kV & 8 nos. 33kV line, 2 nos. each 132/33kV & 33/11 kV substation	27 July 2015		
Manipur	17 th August 2015	Imphal West, Senapati & Bishnupur 2 nos.132kV & 5 nos. 33kV line, 1 no.132/33kV & 5 nos. 33/11kV substation Imphal East, Churachandpur, Thoubal & Tamenglong Strg. of 2 nos.132 kV & reno. 1 no.132kV & 7 nos.33kV line, and 5 nos. 33/11 kV substation	2015 23 July 2015	Submitte d to Bank in Nov'19. Joint meeting to be held to finalize the report	M/s R S Envirolink Technologies Pvt. Ltd. has been appointed as consultant in June 20.
		Imphal West, Imphal East & Tamenglong 1 no. 132kV & 3 nos. 33kV line, 1 no. 132/33 kV, 3 nos. 33/11kV substation	8 Jan. 2015	Under prepara tion	
Meghalay a	29 th June, 2015	West Garo Hills & South West Garo Hills 1 no. 132kV & 6 nos. 33kV line, E & Safeguard Monitoring Be	5 May 2015	22 June 2018	20 Nov'19

		1 no. 132/33kV & 3 nos. 33/11kV substation Ri-Bhoi and East Khasi Hills 1 no. 220kV & 5 nos. 33kV line, 1 no. 220/132/33kV & 4 nos. 33/11kV substation East Jaintia Hills	7 July 2015 15 June	Submitte d to Bank in Nov'19. Joint meeting to be held to finalize the report 19 Oct	revised in line with approved Garo Hills FEAR and likely to be submitted in Sept.'20 by
		(1 no. 132kV & 4 nos. 33kV line, 1 no. 132/33kV & 4 nos. 33/11kV substation)	2015	2018	Independent Agency under progress.
Tripura	17 th June, 2015	Gumti & South Tripura (5 nos. 132kV & 4 nos. 132/33 kV substation)	15 Apr 2015	29 Dec. 2018	M/s Green Circle Inc., Vadodara appointed as Independent Consultant
		West Tripura, South Tripura, Sepahijala & Khowai (4 nos.132kV & 24 nos.33kV line, 3 nos. 132/33kV & 15 nos. 33/11kV substation)	18 July 2015	3 Sept. 2018	for FEAR preparation in Dec 2018. Based on POWERGRID/ Bank observations on draft FEAR of Assam, FEARs for Tripura to be prepared/submitted by
		Dhalai, North Tripura & Unakoti (2 nos.132kV & 8 nos. 33kV line, 1 no. 132/33kV & 6 nos. 33/11kV substation)	13 July 2015	15 Oct. 2018	the Consultant.
		Gumti & South Tripura (19 nos. 33kV line, 1 no. 132/33kV & 14 nos. 33/11kV substation)	27 July 2015	Submitte d to Bank in Nov'19. Joint meeting to be held to finalize the report.	
Mizoram	7 th July, 2015	Lunglei & Lawngtlai (2 nos. 132kV & 1 no. 33kV line, 1 no. each 132/33kV & 33/11kV substation)	17 June 2015	d to Bank in Nov'19. Joint meeting to be held to finalize the report	Independent Consultant for FEAR in April'19. Consultant yet to
		Mamit 1 no. 132kV & 33kV line, 3 nos. 132/33kV substation)	26 July 2017	Under Preparati on	

Nagaland	10 th July,	Tuensang & Longleng	13 May	Submitte	Both	the	FEA	٨Rs
_	2015	(1 no. 132kV & 33kV line,	2015	d to Bank	cleared	l by	Bank a	and
		1 no. 132/33kV		in Nov'19.	stand	disclo	sed on	17
		substation		Joint	August	2020		
		Mokokchung, Kohima,	27 th July	meeting				
		Dimapur, Phek, Wokha,	2015	to be held				
		Zunheboto, Mon		to finalize				
		6 nos.132kV & 10 nos.		the report				
		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 sitespecific 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 the environmental and social 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.	Name of the Line/Substation	Line Lenath	Forest (In Ha.)/	Status/Remarks
No.		(In km)	• •	otataontonianto
		ASS		
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	
	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		
	33 kV Chapakhowa – C'khowa	10		
	33 kV Sarupathar -Barapathar	12		
DMS02	33 kV Sarupathar - Sarupathar	5	Nil	
	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	33kV Tangla - Tangla	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		
DMS04		12	Nil	
	33kV (UG) GMC- GMC	5		
	33kV (UG) GMC- Ullubari	10		
	33 kV (UG) P'bazar-Chabipool	4		
	33kV (UG) Paltanbazar-P'bazar	2		

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

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	33kV (UG) Paltanbazar-J' field	5		
	33kV (UG)Paltanbazar-F'bazaar	4		
	33kV (UG) P'bazar – Ullubari	4		
		MAN	IPUR	
	Renovation of 132kV Y'bam- Karong-Kohima	91		
	LILO132 kV S/c Y'bam -Karong	6		
	LILO of 132kV D/c Kongba- Kakching	16	Nil	
TW06	Stringing (2 nd Ckt.) of 132 kV D/c Yaingangpokpi – Kongba	45		
10000	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 towards compensatory levies to the tune of Rs 7.5 Cr has already been deposited.
SS3	132/33 kV Tamenglong		1.831/ Un- classed Forest	Forest proposal submitted on 29.05.19. Proposal forwarded to DFO, Tamenglong on 28.06.19 for formulation. 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		
	33kV Top Khongnangkhong- Porompat	7	Nil	
DMS01	33kV Iroisemba - Lamphel	10		
	33kV LILO Y'bam-Noney at Keithelmanbi	15		
	33/11kV Top Khongnangkhong		0.283	Forest proposal submitted on
	substation		Reserve	
			Forest	to DFO on 19.10.18. Presently
			(RF)	under formulation at DFO,
				Imphal.
DMS02	33kV Moirang- Kwakta	10	Nil	
	33kV Nambol - Leimapokpam	10		
	33kV Sanjenbam -Porompat	3	Nil	
	33kV Khoupom - Thangal	20		
DMS03			0.27	Stage-I & Stage-II (final)
	33/11kV Porompat substation		Reserve Forest	approval obtained on 18.02.17 & 30.05.17 respectively.
			(RF)	
	33kV Napetpalli - Sanjenbam	10		
	33 kV LILO Copur-Singhat at	10		
DMS04	Tuiliphai		Nil	

Pkg. No.		(In km)		Status/Remarks
	ME	GHALA	YA	
TW01	220 kV D/c Byrnihat-Mgap-New Shillong	122	45.09/ Forest as per dictionary meaning	No Reserve forest involved. However, requirement of forest clearance under Forest (Conservation) Act, 1980 was necessited based on tree density after completion of tree enumeration & accordingly
				proposal was submitted on 06.04.19. However, proposal is pending with DFO, Khasi Hills since 19.06.19 on account of CA land. Matter already taken up with the Joint Secretary (Power), Meghalaya for early resolution of the matter.
TW02	LILO132kV MLHEP-Khliehriat at Mynkre	34	11.566/	Forest proposal for Loop In (4.85 ha.) and Loop Out (6.716 ha.) submitted on 22.01.19 & 23.01.19 respectively. State Govt. forwarded the proposal to RMoEF, Shillong on 29.06.20 for consideration of Stage-I approval.
	132 kV D/c Phulbari-Ampati	50.10	Nil	
	33kV Mynkre - Mynkre	6		
DMS01	33kV Mynkre - Rymbai	15		
Billoot	33kV Mynke - Lumshnong	10		
	33kV Mynkre - Latykre	25		
	33kV Phulbari-Rajballa Bhaitbari	10	Nil	
D MOOO	33kV Phulbari - Chibinang	6		
DMS02	33kV Tikrila - Raksambre	35		
	33kV Phulbari-Phulbari	6		
	33kV LILO Tikrila-Phulbari	6		
	33kV New Shillong - Mawpat	25 10		
	33kV SE Falls - Mawpat 33kV New Shillong -N. Shillong	6		
DMS03	vv	26	Nil	
	33kVN.Shillong- Mawryngkneng 33kV LILO Jowai-L'krem	4		
	33kV Jongksha-Mawkynrew	8		
			URA	
			2.5118/	Stage-I & Stage-II (final)
	132 kV D/c Bagafa-Belonia	14	Un- classed	approval obtained on 30.10.18. & 07.06.17 respectively.
TW01	132 kV D/c Belonia-Sabroom	42	25.5204 RF	Stage-I approval obtained on 28.06.18. Working permission obtained on 07.05.19.
	132 kV S/c Bagafa-Satchand	40	9.1503/ RF	Stage-I clearance obtained on 12.10.18. Working permission obtained on 20.09.19.
	132kV S/c S'room-S'chand at	1	Nil	

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	S'room			
	132kV S/c S'room-S'chand at S'chand	1	Nil	
	132 kV D/c Udaipur-Bagafa	32	26.77/ RF	Stage-I & Stage-II (final) approval obtained on 09.04.18 & 06.06.19 respectively.
TW02	132 kV D/c Rabindranagar- Belonia	40	74.9493 / RF	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.
	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 (final) 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 (final) approval obtained on 10.04.18 & 29.08.19 respectively.
	132 kV Manu-Manu	2	Nil	
	33kV LILO T'mukh-Silachari at Karbook	6		
	33kV LILO Jolaibari-Bagafa at M'pur	16		
	33kV Dalak- Amarpur	15		
DMS01	33kV Dalak - Jatanbari	12	Nil	
Dineer	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		
DMS02	33kV Satchand - Rupaichari	10	Nil	
	33kV Rajnagar - Ekinpur	20	-	
	33kV LILO S.Nagar-Takarjala at Gabardi	4		
	33kV LILO Belonia-Rajnagar at Barpathari	10		
	33kV Jolaibari - Silachari	30		

Pkg. No.	Name of the Line/Substation	Line Length (In km)	Forest (In Ha.)/ Type	Status/Remarks
	33kV Jolaibari - Satchand	18		
	33/11 kV Ekinpur Substation		0.1962 /RF	Stage-I approval obtained on 02.04.20. Payment towards compensatory levies deposited on 17.06.20.
	33/11 kV Barpathari Substation		0.2209 (Forest & Trishna WL)	Forest: Stage-I approval obtained on 04.03.20. Payment towards compensatory levies under progress. Wildlife: National Board for
			/ RF	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 33kV Kathalia-Nidaya	14 12		
	33kV Melagarh-Nalchar	12		
	33kV Bishramganj-Nalchar	10		
DMS03	33kV Bishramganj-Jangalia	15		
	LILO B'ghat-Jangalia at S'kote			
	33/11 kV Nidaya Substation		0.3299 (Forest & Trishna WL) /RF	Forest: Stage-I approval obtained on 16.03.20. Payment towards compensatory levies under progress. 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		
	33kV Durjoynagar -Bamutia	14	Nil	
	33kV Hezamara -Dhalabill	22		
	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 Ranirbazar	8		

Pkg. No.	Name of the Line/Substation	•	Forest (In Ha.)/	Status/Remarks
	LILO Ambassa-Teliamura at	(In km)	Туре	
	Mungiakami	2		
	33kV Teliamura - Taidu	12	5.0948	Earlier no forest was involved. Due to diversion of line route for NH expansion some forest stretches were unavoidable. Accordingly, forest proposal submitted on 04.07.20 and presently under examination with NO.
	33kV Manu - Dhumachhera	25		
	33kV Manu - 82 mile	21		
	33kV Manu-Tapping of C. Manu- Manu	4		
	33kV J'Nagar-Dhumachhera	20		
	33kV P.K.Bari - 82 mile	13	Nil	
	33kV Kalaisahar-Tilla Bazar	14		
	LILO C'manu-Manu at Chailengta	8		
DMS05		14		
	33kV Ambassa-Jawhar Nagar	13	0.9972	Earlier no forest was involved. Due to diversion of line route for NH expansion some forest stretches were unavoidable Accordingly, forest proposal submitted on 07.07.20 and presently under examination with NO.
		MIZO	RAM	
TW02	132kV S/c Lungsen-Chawngte 132kVS/c Chawngte-S.Bungtlang	39 45		No forest involved.
	132kV S/C Lunglei-Lungsen	0.5	Nil	
SS02	132kV S/c West Phaileng- Marpara	50	104.77 / Forest as per dictionary meaning/	
			RF	Wildlife:ProposalrecommendedbyStandingCommitteeofNBWLinmeetingheldon03.07.20.
DMS01	33kV Lungsen-Lungsen	5	Nil	
	33kV West Phaileng- W.Phaileng	0.1		
		NAGA	LAND	
TW01	220 kV S/c N. Kohima-Wokha- M.chung	92	Nil	No forest involved
TW05	132 kV D/c Kohima- New Secretariat Complex	28	Nil	

Pkg.	Name of the Line/Substation	Line	Forest	Status/Barnarka
No.	Name of the Line/Substation	(In km)	(In Ha.)/ Type	Status/Remarks
	132 kV S/c Wokha-Zunheboto- M'chung	97	Nil	
	132 kV S/c Tuensang-Longleng	36	Nil	
TW06	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	
	33kV M'chung-Mariani to Longtho	0.5		No forest involved
DMS01	LILO M'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	
0101303	33 kV Pfutsero - Pfutsero	4		
DMS04		10	Nil	
	Total		417.885	

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

Till reporting period (up to June 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

Visit to 220/132kV Behiating substation

Visit to Pile Foundation work of 132kV Rupa Chapakhowa line

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	Actions	Responsible	Present Status
1.	CPTD: Making land and crop compensations in respect of eligible cases	POWERGRID	POWERGRID has already prioritized compensation payment towards land/surface
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;	POWERGRID	damages where tower foundation /erection/ stringing under progress after due assessment by Revenue Authority (refer Table- 8) . Further, number of pending cases and non-eligible cases along with detailed justification has been provided in same Table - 8.
3.	CPTD: initiate compensation payment processes for corridor / ROW in Assam and Manipur	POWERGRID	As regard compensation against 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)	APDCL MSPCL	Land for Tarun Nagar substation has been handed over to POWERGRID in Feb, 2020. Alternate land for Takyel has been finalized but yet to be handed over to POWERGRID.
	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	TSECL POWERGRID APDCL	Matter taken up during Steering Committee meeting held in Feb.' 20.
5	Forest and/ or Wildlife clearance for 33 kV S/S at Nidaya, Barpathri and Ekinpur (Tripura)	POWERGRID TSECL	In Principle (Stage-I) forest clearances and wildlife permissions for 33 kV substation at Nidaya, Barpathri and Ekinpur have already obtained. For details refer Table-2 above.
6	Addressing observations from field visit (refer Annex IV)	POWERGRID	Being complied.
7	Appointment of consultants for preparation of Final Environmental 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)	POWERGRID/ Consultants	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 during last mission and requested Bank to let it undertake the preparation of these reports in- house. Bank informed that it will discuss with Regional E & S Safeguards Adviser and convey its decision to POWERGRID accordingly.
9	Sharing Initial Environmental Assessment Report (IEAR) for planned 8 new lines across Assam and Tripura		Draft IEAR for Assam (additional scope) already shared with Bank in 4 th Feb'20. The revision of IEAR based on the observations received on 14th Feb.'20 couldn't be completed due to ongoing pandemic situation. 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), approach road and other protection measures etc. are being undertaken/have been planned as per the site requirement/conditions and subsequent technical approval through committee. Further, rain water harvesting system which is an integral part of substation design will also be implemented based on the site condition/requirement. The details of such measures which are already under implementation/ approved for implemented at different sites are placed as **Plate -2**. For others sites also similar procedure shall be followed and status of site specific measures will be updated as per work progress.

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

SI. No	Name of Substation /Line	Required Approach Road (length in meter) * <i>Planned</i> , *	Type of Slope Protection/ Stabilization / bio-engineering Measures	Other measures (rainwater harvesting/ cross/ outer drainage etc. ntation,*** Completed	
	ASSAM				
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**		

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

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***	
18	33/11kV D'doma- hazo		RRM Wall***	
19	33/11 kV Arya College			Box culvert***
		MANIF	VUR	
20	132/33kV Tamenglong	650*		
21	33/11 kV Takyel			
22	33/11 kV Lamphel			
23	33/11 kV Top Khongnangkhong	43*	RRM Wall***	
24	33/11 kV Porompat			Outer drainage***
25	33/11 kV Andro		RRM Wall***	
26	33/11 kV Hiyangthang		RRM Wall***	
27	33/11kV Keithelmanbi	290*		
28	33/11 kV Kwakta	03***		
29	Aug.of 33/11 kV Ukhrul		Retaining Wall**	
30	33/11 kV Tuilaphai	95***		
31	33/11 kV Sanjenbam	22.5**	Retaining Wall*	
		MEGHA	LAYA	
32	220/132/33 kV New Shillong	20*	Retaining Wall* Stone Pitching* & Grass with bamboo grids*	Rain Water Harvesting*
33	132/33 kV Mynkre	25*	RRM Wall*	
34	132/33 kV Phulbari	10*	Rev., RRM Wall** & Grass with bamboo grids*	
35	33/11 kV Rymbai		RRM Wall**	
36	33/11 kV Latyrke		RRM Wall***	
37	33/11 kV Rajballa- Bhaitbari		Revetment RRM Wall**&Grass with bamboo grids*	
38	33/11 kV Chibinang		RRM Wall**	
	33/11 kV Raksambre		RRM Wall***	
39	33/11 kV Mawpat		RRM Wall***	-

ASSAM RRM Wall at 33/11 kV Silapathar-II RRM Wall at 33/11 kV Ramdiya MANIPUR RRM Wall at 33/11 kV Pishum (GIS) RRM Wall at 33/11kV Ando, Manipur MEGHALAYA

RRM wall at LILO of 132 kV MLHEP-Khliehriat Line at Mynkre

RRM Wall at 33/11 kV Raksambre

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 Implementa	Other measures (rainwater harvesting/ cross/ outer drainage etc. ation,*** Completed
		MEGHA	ALAYA	
40	33/11 kV New Shillong		RRM Wall***	
41	33/11 kV Mawkneng		RRM Wall***	
42	33/11 kV Mawkynrew		Stone Pitching***	
43	220 kV D/c Byrnihat- Mawngap-New Shillong line		RRM Wall- Total 57** (8***) & ULE : Total 163** (73***)	
44	LILO of 132 kV MLHEP-Khliehriat Line at Mynkre		RRM & Revetment Wall-Total 29**(4***) & ULE-Total 35** (30***)	
		TRIP	URA	
45	132/33kV Bagafa	50**	Retaining Wall*	01 No. recharge pit
46	132/33kV Belonia	115**	Retaining Wall*	in each substation*
47	132/33kV Satchand		Retaining Wall*	
48	132/33kV Gokulnagar		Retaining Wall***	
49	132/33kV Mohanpur	250*	Retaining Wall**	
50	132/33kV Manu		Retaining Wall*	
51	132/33kV Amarpur		Retaining Wall*	
52	132/33kV Ambassa (Extn.)	150*		
53	33/11kV Golaghati		RRM Wall***	
54	33/11kV Durganagar	500*		
55	33/11kV Nidaya	200*		
56	33/11kV Simna	200*		
57	33/11kV Jawaharnagar	25*		
58	33/11kV 82 Mile	5*		
59	33/11kV Dhumachhara	5*		
		NAGA	1	
60	132/33kV Secretariat Complex Kohima	80**	RRM & Retaining Wall***	
61	132/33 kV Longnak		Retaining Wall**	
62	132/33 kV Longleng	500**		
63	132/33 kV Pfutsero	100*	Retaining Wall*	
64	132/33 kV Zunheboto	80*	Retaining Wall*	
65	Ext. of 132/66/33 kV Mokokchung		RRM & Retaining Wall***	
66	Ext of 132/33kV Wokha		RRM & Retaining Wall***	



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SI. No	Name of Substation /Line	Required Approach Road (length in meter)	Type of Slope Protection/ Stabilization / bio- engineering Measures ** Under Implementation	Other measures (rainwater harvesting/ cross/ outer drainage etc.
		NAGA		on, completed
67	33/11 kV Longtho	700*		
68		100	RRM Wall*	
	33/11 kV Longleng			
69	33/11kV Pfutsero	55*	RRM Wall**	
70	Aug. of 33/11kV Bosta		Retaining Wall***	
71	Aug. of 33/11kV Chakabhama		Retaining Wall***	
72	Aug. of 33/11kV Torogonyu		Retaining Wall*	
73	Aug. of 33/11kV Tseminyu		Retaining Wall*	
74	220 kV S/c N. Kohima- Wokha-M.chung		ULE : Total 223** (52***)	
75	132 kV D/c Kohima- New Secretariat Complex		Revetment Wall - 2** and ULE - (Total 14** (12***)	
76	132 kV S/c Wokha- Zunheboto-M'chung		ULE - Total 101** (14***)	
77	132 kV S/c Tuensang- Longleng		ULE - Total 77** (2***)	
78	LILO of 132 kV S/c Kohima-Wokha at New Kohima		ULE - Total 14** (13***)	
79	LILO 132 kV D/c Kohima-Meluri at Pfutsero		Revetment Wall - 6** and ULE - 8***	
		MIZO	RAM	
82	132/33 kV Lungsen		Retaining Wall* Stone Pitching*	Cross drainage* Outer drainage*
83	132/33 kV West Phaileng	80*	Retaining Wall*	Cross drainage**
84	132/33 kV Marpara	130*	Retaining Wall* Grass with bamboo grids*	Cross drainage*
85	33/11kV S. Bungtlang	200*	Retaining Wall**	Cross drainage*
86	Aug. of 132/33 kV Lunglei		Retaining Wall* Stone Pitching*	Cross drainage*
87	132 kV Lungsen- Chawngte		Unequal Leg Extension (ULE)- 76*	
88	132 kV Chawngte- S.Bungtlang		ULE- 56 *	
89	132 kV West Phaileng- Marpara		ULE- 159**	

3.1.4. Occupational Health and Safety

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

The compliance of safety guidelines/checklists including work permits, height use of PPEs and other safety precautions are regularly monitored by site in-charge. Mock drill such as fire safety, victim rescue/Cardio-Pulmonary Resuscitation, first aid etc are conducted periodically to enhance the preparedness level of the workforce. Availability of First aid facilities and/or ambulance at work site is ensured to face any eventuality. Safety induction & awareness programme including HIV/AID are also conducted at every active site. Safety film for transmission project developed by POWERGRID have been translated in local languages² like Assamese, Manipuri, Bengali, Khasi & Nagamese, Mizo apart from English & Hindi and is shown to workers regularly. Additionally, every day before start of work tool box talk is held which also include safety aspects/instruction. Photographs/ documents related to safe work practices including safety awareness are placed as **Plate- 3**. It is heartening to note that till June'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

² Also available on POWERGRID's website <u>http://www.powergridindia.com/ner-agreements-and-mous</u> NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2020

MANIPUR



Safety Training at 33/11 kV Top Khongnangkhong S/s



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), Top Khongnangkhong S/s



Transformer Erection Training at 33/11 kV Chukitong

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

TRIPURA





Training on Work at Height at Sabroom Substation



Safety Briefing and PEP Talk at 132/33 kV Marpara

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	7320837473/76409397
2	HR & Admin Dept.	8837410576/90890886
3	Safety Dept.	7874398415
4	Security	
5	Hospital /Ambulance	03823262248
6	Police	03823262231 03823262244





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 all Site 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		200
	M/s JV Techno & Seiyuan	SS-04	100	80
	M/s T & R (India) Ltd	TW-01	100	30
	M/s Meher Foundation & Civil Engg. Pvt. Ltd	P - 01	30	19
	M/s Power Mech Projects Ltd	TW-02 & 05	110	50
	M/s Teems India Pvt. Ltd	TW-04	60	30
	M/s Simplex Infra. Ltd.	TW-07	100	20
	M/s Sterling & Wilson Pvt. Ltd.	DMS-02 & 03	300	90
Meghala	M/s Neccon Power & Infra Ltd	DMS-01-03, SS-01	215	138
уа	M/s Techno Electric & Engineering Co. Ltd.	SS-02	100	66
	M/s Unique Stru. & Towers Ltd.	TW-01 & 02	400	242
Tripura	M/s. SPML	SS-01, 02 & 03	300	66
	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	Nil
	M/s Sterling & Wilson Pvt. Ltd	SS-02	119	68
Nagaland	M/s Sterling & Wilson Pvt. Ltd.	DMS-03 & 04	200	40
	M/s Shyama Power India Ltd.	TW-01,05,06 & SS- 03	400	150
	M/s Techno Power Ente. Ltd	DMS-01 & 02	75	45
	M/s Power Mech. Projects Ltd.	SS-02 & 04	100	30
	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.

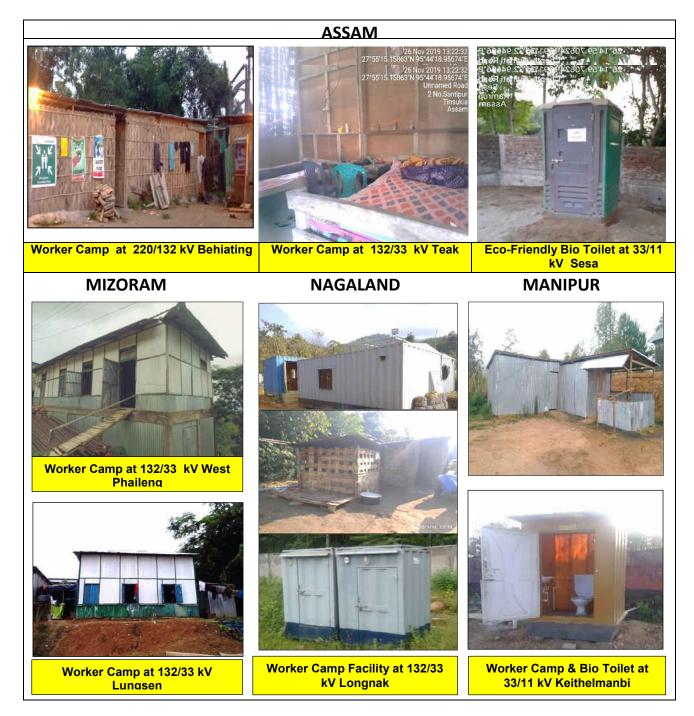


Plate -4 : Worker Facilities at Construction Sites

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 Gol & 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 guidelines/ 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. It is noteworthy to mention no positive COVID case has been reported from any construction sites during reporting period. Some photographs related proper health & hygine, sanitization, availability of PPEs and adherence to social distancing norms including daily awareness on COVID during Tool Box Talk etc. are placed as **Plate-12**.

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 programme 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 organised at PAL Manesar, Gurgaon on 11-13 December, 2018. During such programmes 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 programmes are placed as **Plate- 5**. Details of training programmes conducted till reporting period is provided below in **Table-5**.

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

SI.	Topic of Training	Place & Date	Participants	Total
	Programme		Level	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	REAK	World Bank E & S Safeguard Requirements for T & D Projects	BREAK	Ensuring EHS compliance as per Environment Management Plan (EMP)	REAK	Environmental Laws vis- a-vis Transmission Line Projects with special emphasis to Forest and Wildlife Clearance process
	т ө Х	S.K. Kar POWERGRID	TEA BF	K. Khumujam World Bank	NCH	K. Khumujam World Bank	EA BF	Suvendu Kar POWERGRID
Day 2 05.09.18		Forest & Bio-diversity issues in Developmental Projects and their Management	F	Forest & Bio-diversity issues in Developmental Projects and their Management		RoW Compensation and Diminution of Land Value due to placing of Transmission Line/Tower	F	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 Sh. H. S. Sohal, IFS PCCF & CVO, EIL		WB Policies vis-a-vis E & S Management in Transmission Projects Sh. G. Joshi Sr. Env. Specialist, World Bank		Global Best practices in managing E & S issuses in T & D Projects & Case Study Sh. K. Khumujam Env. Consultant World Bank		Gender Issues and Policy Framework of WB Ms. Sangeeta Kumari Sr. Soc. Specialist & Gender Expert, WB
Day-2		10.00 -11.30		11.45 -13.00		14.00 - 1530		15.45 - 17.00
	& aadd specia	vith Indigenous People (Tribal) ressing Gender Issues with I reference to NER States Sh. R. Swarankar, r Sr. Social Specialist ADB	TEA BREAK	Environmental laws of India vis-à-vis Forest & Wildlife Clearance Sh. S.S.Singh General Manager (ESM)	LUNCH BREAK	Engineering/Design Measures to meet safeguard e.g. - Slope stabilization including bio-engg measures - Bird Guards - Innovative Towers - Wildlife/Elephant protection Sh. Vinay General Manager (Engg.)	TEA BREAK	RoW Compensation and Diminution of Land Value due to placing of Transmission Line/Tower Sh. R. Ranjan Manager (ESM)
Day-3		10.00 -11.00		11.15-12.30		13.30- 14.30		8 2 h
	145 S 14	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		Obs./ Notice till date	Total Obs./N during repo	Total Penalties, if any	
	Regional Safety	Site Officials	Regional Safety	Site Officials	
Assam	14	19	-	-	1
Meghalaya	7	19	1	3	Nil
Tripura	4	29	-	3	Nil
Manipur	10	20	-	1	Nil
Nagaland	2	21	0	6	Nil
Mizoram	1	30	1	3	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 as envisaged in IEAR (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			
1	220/132 kV Behiating	7.31				
2	132/33 kV GMC	0.83				
3	132/33 kV Silapathar	7.27	AEGCL	N 1 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	g
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.	****	
	Khongnankhong	4.07	0 1		0.407	
6	33/11 kV Porompat	1.97	Govt.	N.A.	0.197	
3	33/11 kV Andro	0.50	Pvt.	1	0.335	
5	33/11 kV Hiyangthang	0.73	Pvt.	1	4.424	
8	33/11kV Kaithelmanbi	0.74	Pvt.	1	0.697	
9	33/11 kV Kwata	0.31	Pvt.	1	1.008	Direct Purchase
10	33/11 kV Leimapokam	0.63	Pvt.	1	0.955	on negotiated rate
12	33/11 kV Thangal	0.612	Pvt.	1	0.522	
13	33/11 kV Sanjenbam	0.62	Pvt.	3	1.029	
14	33/11 kV Tuliaphai	0.494	Pvt.	1	0.465	
15	33/11 kV Pishum (GIS)	0.249	Govt. EGHALA	N.A.	****	
1	220/122k/Mowngon		MePTCL	I		
	220/132kV Mawngap		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	4		
1	132/33kV Rabin'nagar	2.5				
2	132/33 kV Gokulnagar	3.5				
3	132/33 kV Belonia	3.0				
4	132/33 kV Bagafa	3.7	TSECL			
5	132/33 kV Sabroom	1.64	Land	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	-				
19	33/11 kV Golaghati	0.49	TSECL			
20	33/11 kV Durganagar	0.40	Land	NA	NA	NA
21	33/11 kV Maharani	0.89	Land			
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				
29	33/11 kV Srinagar	1.46				
30	33/11 kV Chechua	0.41				

SI. No	33/11 kV Rupaichari	0.62	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 Ekinpur	1.03	, í		, í	
32	33/11 kV Gabardi	0.67				
33	33/11 kV Barpathari	0.74				
34	33/11 kV Karbook	0.59				
35	33/11 kV Muhuripur	0.99				
36	33/11 kV Dalak	1.38				
37	33/11 kV Mungiakami	1.15				
20	33/11 kV Durga					
38	Chowmohani					
39	33/11 kV Garjee	0.79				
40	33/11 kV Sekerkote	0.70				Yet to be handed over to POWERGRID
41	33/11 kV Taidu		Pvt.	1		Land willingly
10	00/44 11/14	0.00	Dut	4	0.057	donated by owner
42	33/11 kV Manughat	0.80	Pvt.	1	0.657	
			MIZORA	Μ		
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			
4	South Bungtlang	0.58				
			IAGALAI	ND		
1	132/33kV Secretariat	3.4	DPN	N.A	N.A	N.A
	Complex Kohima		Land			
2	132/33 kV Longnak	4.7	Pvt.	1	2.700	
3	132/33 kV Longleng	8.1	Pvt.	7	0.458	Direct Purchase
4	132/33 kV Pfutsero	4.94	Pvt.	1	5.812	on negotiated rate
5	132/33 kV Zunheboto	14.64	Pvt.	6	2.781	
6	33/11 kV Longtho	1.04				
7	33/11kV Longleng Town					
8	33/11kV Mokokchung	0.15				
	Power House					
9	33/11kV Mokochung	0.20				
	Hospital Area		DPN	N.A	N.A	N.A
10	33/11kV Zunheboto	0.76	Land	11.77	11.71	N.A
	South Point					
11	33/11kV Sechu-Zubza	0.33				
	(Lalmati)					
12	33/11kV Chiephobozou	0.37				
13	33/11kV Tizit	0.15				
14	33/11kV Pfutsero	0.19	Pvt.	1	0.757	Direct Purchase on negotiated rate

SI. No	Name of Substation	Area (acres)	Type of Land (Govt./ Pvt.)	Land	Total Cost of Land (Rs Million)	Method of Securing Land/ Remarks, if any
14	33/11kV Pfutsero	0.19	Pvt.	1	0.757	Direct Purchase
15	33/11kV Wokha	0.47	Pvt.	1	3.10	on negotiated rate
16	33/11kV Padampukhri	0.74	Pvt.	1	4.536	

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

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.

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 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.

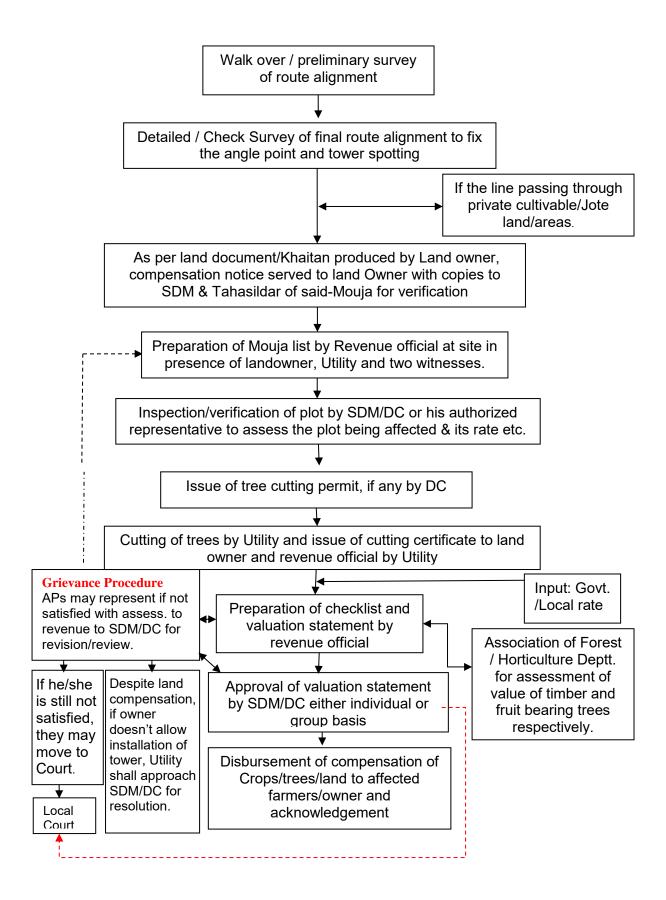
4.1.4 Land Compensation for RoW:

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, Manipur and Mizoram States have 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. However, 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 start only after fixation of land rates by the concerned DC/DM. Accordingly, payment of land compensation are 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**.





SI.	Name of the Line								Tree/C	rop 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	Compensation for APs for RoW Corridor under progress	Total Co for F	Tot	Compensation already paid to APs	0	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					initiation)				P	Lanij				Minion	
1	220 kV D/c Tinsukia- Behiating	123	113	65	48	1.28		Stringi	ng not sta	rted yet		75	75	_	2.43	10 nos. tower location in Govt. land
2	132 kV S/c Dhemaji- Silapathar	63	57	21	36	0.75	-					Nil	Nil	Nil	Nil	6 nos. tower location in Govt land
3	132 kV S/c Rupai- Chapakhowa	128	79	48	31	0.52						89	89	0	2.98	20 nos. tower location in Govt. land & 9 cases pending for title disputes.
	Sub Total Assam	314	249	134	115	2.56						164	164	0	5.41	
Me	ghalaya					[1								0.04	
1	220kVD/c Byrnihat-Mgap- N.Shillong	239	239*	143*	96*	56.35	Not Started		pplicable a	pted MoP		30	30	0	2.64	
2	LILO132kV MLHEP- Khliehriat	79	79 *	69*	18*	5.45	7.92		Guide	ines		Nil	Nil	Nil	Nil	
3	132 kV D/c Phulbari-Ampati	174	174*	170 *	4*	15.56	49.88					9	9	0	0.14	
	Sub Total Meghalaya	492	465	401	118	77.36						39	39	0	2.78	
Ма	nipur															
1	132 kV D/c Imphal – Nin'khong	99	124	74	50	3.48	17.01					Nil	Nil	Nil	Nil	
2.	132 kV S/c Rengpang- Tamenglong	11	15	-	15	-						15	0	13	0	
	Sub Total Manipur	110	139	74	65	3.48						15	Nil	13	Nil	

SI.	Name of the Line										Tree/C	rop 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	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)
Na	galand															
1	132 kV D/c Kohima-New Sec. Complex	25	27	22	5	1.96						27	22	5	0.162	
2	LILO 132 kV D/c Kohima- Meluri at Pfutsero	10	11	11	0	1.00						11	0	0	0	
3	220 kV S/c N.Kohima-Wokha- M.chung	88	95	53	42	6.84	Not /	Applica	ble as Sta	te Govt. h	as	95	53	12	0.675	
6	LILO132kV S/c M'chung- Mariani at Longnak	5	5	5	0	2.1	no	ot adop	ted MoP (Guidelines		5	5	0	0.007	
7	LILO 132kVS/c Kohima- Wokha at N Kohima	25	28	16	12	1.43						28	16	12	0.19	
	Sub Total Nagaland	153	166	107	59	13.33						166	96	29	1.034	
Tri	pura															
1	LILO132kV Ambassa-PKBari	5	5	0	5				ble as Sta			5	2	3	0.30	
2	132 kV D/c Bagafa-Belonia	1	3	0	3		no	ot adop	ted MoP C	Guidelines		6	0	6	Nil	
3	132 kV S/c Bagafa-Satchand	11	8	0	8							10	0	10	Nil	
4	132kV Sabroom-Satchand	3	2	0	2							9	0	8	Nil	
	Sub Total Tripura	20	18	0	18					30	2	28	0.3			
Miz	zoram															
	132kV S/c West Phaileng- Marpara	9	0	0	0	0	No compensation for line corridor (only 100% for tower base as per		35	9	26	0.51	All tower locations fall under Govt. land			
	-						State Govt. notification 01.05.2019)									
	Sub Total Mizoram	9	0	0	0	0						35	9	26	0.51	
	Grand Total	1098	1037	716	375	96.73						449	310	96	10.034	

*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 140 tower locations for which compensations has already been paid, 37 locations falls under private ownership & remaining 103 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**.

					o, e e inplainte						
S N	Subproject No/ /State Village		complainant		Main Issue of complaints	Status of complaint					
Α.	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)				infringing	such land has been					

Table - 9: Details of Grievances/Complaints

2	220kV New	AP-68	Mr. Shwehilo	20.05.20	their land intended to be used for construction of houses by marginalized people Land	achieved after due diligence to the satisfaction of complainants.
	Kohima -	& 70	Тер	20.03.20	compensatio	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	Security Persons	18.06.20	Delay of Salary/ Payment	Resolved on 22.06.20. Contracting agency took necessary action and solved the issue.
С.	Verbal Comp					
1.	132kV S/c West Phaileng- Marpara (Mizoram)	AP-168	Sh. Bosisto Moni	13.12.18	Compensation for crop/other damages during construction	Resolvedon14.12.18.Compensationframeworkexplainedto complainant to hissatisfaction.
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.
4.	33/11 kV Chiephobozo u substation (Nagaland)	obozou	(Villager)	06.06.18	Demand for road	Though matter is not under purview of POWERGRID, discussion is being held to find an amicable solution.
5.	33/11 kV Padampukhri substation (Nagaland)	Village Padam pukhri	Nearby Residents	18.07.18	Unpleasant sound due to construction	Resolved on 29.07.18. Noise reduction measures implemented & no further complaint received.
6.	33/11 kV Botsa (Ext.) substation (Nagaland)	Village Botsa	Villagers	28.12.18	Fencing of the substation boundary	Resolved . Fencing work completed in July'19.

S N	Name of the Subproject /State		complainant	Date of complaints/ Court case	Main Issue of complaints	Status of complaint
7.	132/33 kV Lunglei (Ext.) substation (Mizoram)	Khawiv		06.03.19	Storage of soli near to Nala passes beside substation	Resolved on 13.03.19. SDO PMD- I, Khawiva suggested alternative location for storage/ disposal of 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
9	Complex Line (Nagaland)		Concerned land owners of Loc. No.01- 28 of Zhadima village	06.06.19	Land)	meeting/ discussion. Compensation framework explained to complainant to their satisfaction.
10			Land Owners at AP- 19-20	08.11.19	Compensation towards Approach road	Matter resolved on 11.11.19 through discussion with Contractor and Land owners.
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 low Land/Tree & Crops Compensation rates	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.
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	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.

N	Name of the Subproject /State	No/ Village	complainant s	Court case	-	Status of complaint
15	220kV New Kohima- Mokokchung via Wokha line (Nagaland	Ehunny , AP- 113 to 121	Village council of Ehunnu	08.11.19	Compensation towards Approach road	22.12.19 through
16	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.
17	132kV D/c West Phaileng- Marpara (Mizoram)	Pukzin g Vength ar	Local Task Force	06.06.2020	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.
18	33 kV line Lungsen– Lungsen (Mizoram)	Lung sen	Local Task Force	09.06.2020	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

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 June'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), Tripura 60(10 female), Meghalaya 40 (4 female)
June- Dec.'19	335	296	39	Tripura : 27 (09 female), Meghalaya 44 (6 female), Nagaland: 198 (19 female), Mizoram: 66 (5 female)
Jan-Jun.'20	175	127	48	Assam: 25 (6 female), Tripura: 30(9 female), Meghalaya: 44 (13 female), Nagaland: 76 (20 female)
Total	3781	2925	856 = 22.64%	

 Table -10: Details of Public Consultation & Gender Participation

Plate 6: Stakeholders Consultation during reporting period.

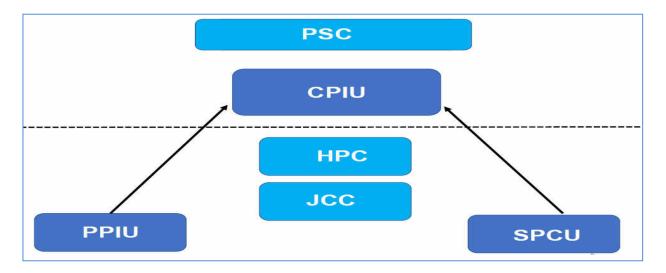


Meeting held at Lizu Village Council Hall Zunheboto on 17.03.20 in respect of 132/33kV Zunheboto SS construction (Nagaland) Meeting held at Izheto village, Zunheboto on 26.06.2020 in respect of 132 kV Zunheboto-Mokokchung line (Nagaland)



SECTION-5: ANY OTHER ISSUES (MANAGEMENT & MONITORING

Environmental monitoring is a continuous process throughout the Project life cycle starting from site selection to construction and maintenance state. As Implementing Agency (IA) POWERGRID endeavours 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 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 Gol/ State Government level. Due to such strong institutional support structure coupled with monitoring mechanism in place, no major noncompliance were 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 423.977 ha or approx. 153.06 km, (which is just 4.42% of total line length of 3,460km of proposed TL/DL), including 0.55 Ha of protected area i.e. Trishna Wildlife Sanctuary. 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 willing 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	Potential	Proposed mitigation	Parameter to	Measurement		Implementation	Compliance Status
No.	activity/stage	impact	measures	be monitored	& frequency	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	Tower/pole location and overhead/ underground line alignment selection (distance to nearest dwellings or social institutions)	Consultation with local authorities/ autonomous councils and land owners – once	IA/ Survey Agency (Sec-II. 2.2 i of Contract agreement)	Part of detailed tower/pole sitting and overhead/ underground alignment survey and design	All socially sensitive areas including habitated areas avoided for TLs (refer Plate – 7). However, distribution lines due to their functional mandate are bound to pass through habited areas.
			Minimise impact on agricultural land	Tower location and overhead/ underground line alignment selection (distance to agricultural land)	Consultation with local auth./ autonomous councils and land owners – once			Though major sections of proposed lines are routed through agricultural field in order to avoid impact on environmentally/socially sensitive areas, every efforts including consultation with local authorities/ autonomous councils and land owners (refer Plate – 8) 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.	•	Potential	Proposed mitigation	Parameter to	Measurement	Institutional	Implementation	Compliance Status
NO . 6	activity/stage Involuntary	impact	measuresCompensationand	be monitored Compensation		responsibility	schedule Prior to	No involuntary acquisition of
	acquisition or permanent land acquisition for substation.	Social inequities	R&R measures as per provision of RFCTLARRA,2013 ⁴	and monetary R&R measures implementation before possession.	1	State Govt.	award/start of substation construction.	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)	Consultation with local forest authorities - once	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed siting and alignment survey /design	Through careful route selection involvement of forest/protected areas avoided to the maximum extent. However, given the magnitude of project and peculiarity of terrain, minimum involvement of forest/protected area couldn't be avoided as per details provided in Table- 2 .
			Minimize the need by using existing RoW wherever possible	Tower/pole location and overhead/ underground line alignment selection	Consultation with local authorities and design engineers - once		Part of detailed sitting and alignment survey /design	During survey, every efforts 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

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 January-June, 2020 68

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
								and therefore, provisions of tower extensions up to 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 Measures to avoid invasion of alien species	Tower/pole location and overhead/ underground line alignment selection (distance to nearest protected or reserved forest) Intrusion of invasive species	Consultation with local authorities – once Consultation with local authorities and design engineers – once Consultation with local forest authorities - once	IA/ Survey Agency (Sec-II. 2.4, 2.1 (i) of Contract agreement)	Part of detailed sitting and alignment survey/design	As explained above, proposed line routes of TL/DL have been finalised by taking consideration of minimum impact on forest area after consultation with forest authorities and/or village councils in case of private /community forest. However, applicable forest clearance under Forest (Conservation) Act, 1980 have been obtained/ are presently under various stages of approval process at State Govt/ RMoEFCC level (for details

⁵ As per International/National best practices and in consultation with concerned forest/wildlife Authority NERPSIP Semi-Annual E & S Safeguard Monitoring Report for period January-June, 2020

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Obtain statutory clearances from the Government	Statutory approvals from Government	Compliance with regulations – once for each subproject			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
			Consultation with autonomous councils wherever required	Permission/ NOC from autonomous councils	Consultation with autonomous councils – once during tower placement			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 on forest clearance please visit: http://forestsclearance.nic.in/
10	Lines through farmland	Loss of agricultural production/ change in	Use existing tower or footings wherever possible	Tower/pole location and overhead/ underground	Consultation with local authorities and design	IA/ Survey Agency (Sec-II. 2.4,	Part of detailed alignment survey and design	While passing through agricultural land construction activities are scheduled mostly during lean period so
		cropping pattern		line alignment selection	engineers – once	2.1 (i) of Contract		that damage to standing crop is avoided. However, full

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Avoid sitting new towers on farmland wherever feasible	Tower/pole location and overhead/ underground line alignment selection	Consultation with local authorities and design engineers – once	agreement)	Part of detailed sitting and alignment survey /design	compensation as per assessment of revenue authorities is paid to land owner/farmer in case of inevitable damages.
11		Nuisance to neighbouring properties	Substations sited and designed to ensure noise will not be a nuisance	Noise levels	Noise levels to be specified in tender documents – once	IA	Part of detailed equipment design	Most of the proposed substations are located away from habitated area. Moreover noise control measures already part of tender specification/ design criteria such as Transformers with maximum noise emitting level of 75 dB and DG set with proper enclosures.
12	Interference with drainage patterns/ Irrigation channels	Flooding hazards/ loss of agricultural production	Appropriate sitting of towers to avoid channel interference	Tower/pole location and overhead/ underground line alignment selection (distance to nearest flood zone)	Consultation with local authorities and design engineers – once	IA	Part of detailed alignment survey and design	The actual blockage of ground surface is limited to area covered by tower footing only and that also up to a maximum of 3m depth. Hence, chances of inference with drainage pattern/ irrigation channel are remote.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
13	polluting	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 130% 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
14	Equipments submerged under flood	Contaminat ion of receptors	Substations constructed above the high flood level(HFL) by raising the foundation pad	Substation design to account for HFL (elevation with respect to HFL elevation)	Base height as per flood design- once	IA	Part of detailed substation layout and design /drawings	Complied. Part of detailed substation layout and design/drawings
15	Explosions /Fire	Hazards to life	Design of substations to include modern firefighting equipment Provision of fire fighting equipment to be located close to transformers	Substation design compliance with fire prevention and control codes	Tender document to mention detailed specifications – once	IA	Part of detailed substation layout and design /drawings	Complied. Part of detailed substation layout and design/drawings.
Con	struction							
16	Equipment layout and installation	Noise and vibrations	Construction techniques and machinery selection seeking to minimize	Construction techniques and machinery	Construction techniques & machinery creating	IA (Contractor through contract	Construction period	Complied/ Being Complied. Use of low noise producing equipments /machineries by

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
110.	uctivity/stage	inpuot	ground disturbance.		minimal ground disturbance- once at the start of each construction phase		Senedule	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

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
	uonvity/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	conditions. Noise levels are being monitored in all active sites regularly and all readings are found to be well within permissible limits (refer Plate-9). 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	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- 10). 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-11) 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

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
23	Trimming /cutting of trees within RoW	Fire hazards	Trees allowed growing up to a height within the RoW by maintaining adequate clearance between the top of tree and the conductor as per the regulations.	Species- specific tree retention as approved by statutory authorities (average and max. tree height at maturity, in meters)	Presence of target species in RoW following vegetation clearance – once per site	IA (Contractor through contract provisions)	Construction period	Complied/ Being Complied. Regulated felling in RoW is being carried out with the permission of owner and revenue authorities keeping required electrical clearance as per applicable norms (CEA's regulations, 2010 (Measures related to safety & electric supply)
		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/	Loss of	Construction workers		Complaints by	IA	Construction	Compiled/Being complied.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
	vegetation harvesting	vegetation and deforestati on	prohibited from harvesting wood in the project area during their employment, (apart from locally employed staff continuing current legal activities)	/vegetation harvesting (area in m ² , number of incidents reported)	local people or other evidence of illegal harvesting – every 2 weeks	(Contractor through contract provisions) (Sec-II. 2.3)	period	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		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 - 9)
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,

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
								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 -12 .
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 <u>utilities</u> 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 compliants so far.

Cla.		Potential	Proposed mitigation	Parameter to		Institutional	Implementation schedule	Compliance Status
No.	activity/stage	impact Social inequities	measuresLandowners/Farmers compensatedfor any temporary lossof productive land asper existing regulation.	be monitored Process of Crop/tree compensation in consultation with forest dept.(for timber yielding tree) and Horticulture deptt.(for fruit bearing tree)	& frequency 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)
34	Uncontrolled erosion/silt runoff	Soil loss, downstrea m siltation	Need for access tracks minimised, use of existing roads. Limit site clearing to work areas Regeneration of vegetation to stabilise works areas on completion (where applicable) Avoidance of excavation in wet season Water courses protected from siltation through use of bunds and sediment ponds.	Design basis and construction procedures (suspended solids in receiving waters; area re-vegetated in m ² ; amount of bunds constructed [length in meter, area in m ² , or volume in m ³])	Incorporating good design and construction management practices – once for each site	IA (Contractor through contract provisions) (Sec-II, 2.7)	Construction period	Complied/Being complied. Wherever needed appropriate slope protection measures such as RRM Wall, Retaining Wall, Unequal Leg Extension (ULE) Revetment, Stone Pitching along with bio- engineering measures 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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
35	Nuisance to nearby properties	es neighbouri ng land uses/ values As much as possible existing access ways will be used Productive land will be reinstated following completion of construction	Contract clauses specifying careful construction practices.	Contract clauses	Incorporating good construction management practices – once for each site		Construction period	Complied/Being complied. All such measures have been implemented as already explained at Clause no 17, 18, 19, 30 & 33.
				Design basis and layout	Incorporating good design engineering practices–			
			reinstated following completion of	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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
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.
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	Safetyequipment's(PPEs)forconstruction workersContractprovisionsspecifyingminimumrequirementsforconstruction camps	Contract clauses (number of incidents and total lost-work days caused by injuries	Contract clauses compliance – once every quarter	IA (Contractor through contract provisions) (Sec-II, 2.2 v, vii, viii & Sec-	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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
			Contractor to prepare and implement a health and safety plan. Contractor to arrange for health and safety training sessions	and sickness)	···	IX, PC 22.4.3.8, PC 22.4.3.24 and Safety Rules of PC 22.4.3.21)		Details on Health and Safety aspect provided in Section 3.1.4 .
40	Inadequate construction stage monitoring	Likely to maximise damages	Training of environmental monitoring personnel	Training schedules	Number of programs attended by each person – once a year	IA	Routinely throughout construction period	Complied/Being Complied All employees engaged in project execution including designated Environment Officers have been adequately trained. (refer Section 3.1.5). 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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored		Institutional responsibility	Implementation schedule	Compliance Status
			Implementation of effective environmental monitoring and reporting system using checklist of all contractual environmental requirements.		Submission of duly completed checklists of all contracts for each site - once			
			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).
	ration and Mair			1			1	
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	Avoidance of established/ identified migration path (Birds & Bats). Provision of flight diverter/ reflectors, elevated	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

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
		n	perches, insulating jumper loops, obstructive perch deterrents, raptor hoods etc., if applicable					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.
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.

	Project	Potential	Proposed mitigation	Parameter to	Measurement	Institutional	Implementation	Compliance Status
No. 46	activity/stage Inadequate provision of staff/workers health and safety during operations	impact Injury and sickness of staff /workers	measuresCareful design using appropriate technologies to minimise hazardsSafety awareness raising for staff.Preparation of fire emergency action plan and training given to staff on implementing emergency action plan	(lost work days due to illness and injuries) Training/awar eness programs and mock drills	Preparedness level for using these technologies in crisis – once each year Number of programs and percent of staff /workers covered – once each year	responsibility State Utility	schedule 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.
			Provide adequate sanitation and water supply facilities		Complaints received from staff /workers			- do-
47	Electric Shock Hazards	Injury/ mortality to staff and public	Careful design using appropriate technologies to minimise hazards Security fences around substations Barriers to prevent climbing on/ Appropriate warning signs on facilities Electricity safety awareness raising in project areas	appropriate technologies (no. of injury incidents, lost work days) Maintenance of fences Maintenance of barriers Maintenance of warning signs	Preparedness level for using these technology in crisis – once a month Report on maintenance – every 2 weeks Number of programs and per cent of total persons covered –once	State Utility	Design and Operation	Complied/ being complied. Used of technology like tripping line/substation in milliseconds in case of any hazards. Boundary and Security fences are maintained at each substation. Sufficient barriers with warning sinages are maintained at appropriate places of line/substation. Further, regular awareness/ mock drill on electrical safety and other occupational hazards are being undertaken.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
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.
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, equipment and system design	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/ distri- bution 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.

Cla. No.	Project activity/stage	Potential impact	Proposed mitigation measures	Parameter to be monitored	Measurement & frequency	Institutional responsibility	Implementation schedule	Compliance Status
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	clearance	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 at boundary nearest to properties and consultation with affected parties if any - once	State Utility	Operations	Complied/ being complied. The average noise level reported at the boundary of substation is in the range of 49-52 dB which are well within permissible limit.

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

POWER GRID CORPORATION OF INDIA (A Government of India	and Tax. In other that we have a state in the
Dongtich, Lo Phone: (0364) 2536178, Fax: (0	wer Nongrah, Lapalag, (Shillong)-793006 1364) 2536397, Email: nerts_os@yahoo.in
उत्तर-पूर्वी क्षेत्रीय मुख्यालय: प्रचालन सेवा; NERTS RH(tEF: NESH/Safety/Audit/113/2020/50	2: Operation Services Date. 24.02.2020
Fo, Fhe Project in-charge M/s USTL C/O.POWERGRID CORPORATION OF INDIA LTD, 132kV Powergrid Sub-Station, Khlichriat Meghalaya- 793200	
Sub: Safety Check / Audit, Dear Sir,	
Inder signed has visited construction work of (LILO) 132kV MLI Chlichriat on 24.02.2020. The Safety check / Audit has been carried ite engineers. During the Safety Check / Audit, some lapses pertain observed. The observations are as follows:	out along with your Safety officer /
The observations are mentioned as under:	
During audit it has been observed that the back stay is not provided one side stringing has been completed. The back stay shall be provide Compressor machine being used at site observed without meter. The emoved from working site and new compressor m/c with meter shall the duly filled & signed check list (prior to start stringing activities) a valiable and a copy shall be submitted to POWERGRID. "Irst-Aid materials in the first aid box at site observed insufficient, the height pass, medical fitness certificate and induction training record - ubmitted to POWERGRID. During audit it has been observed that fall arrestor locks are not pro- hall be provided to each individual fitter for safe ascending & descer- viso, it was observed that simultaneous locking/anchoring of both 1 lone by fitters while working at height, the same shall be ensured to a simultaneous loading of conductor i.e. Top-Top, Middle-Middle & tringing and providing of back stay shall be ensured where ever requ	e compressor m/c without meter shall be be provided. gainst each individual span shall be made c same shall be refilled. of the fitters engaged at work site shall be vided to each fitter, the fail arrestor lock iding. anyard of full body safety harness is not rvoid fall from height. Bottom -Bottom must be ensured during ired.
ou are requested to look in to the matter seriously and comply the ob- ction shall be taken as per terms and condition of contract. The con- tegional Safety, Shillong through concern site in-charge /site engineer or ensure the implementation of proper safety measures at working site	of POWERGRID. Further, it is requested
hanking you, inclos: As above	(Pulaketh Roy)
lopy to:	Regional Safety Officer Shillong.
 Sr. GM (I/C AM), Shillong – For kind information GM (Safety, NERPSIP), Guwahati – For kind information DGM (NERPSIP), Khliehriat 	(Pulakesn Roy) Regional Safety Officer Shillong. Nond Kicker (24/02/20) ffice 24/02/20 ffice 24/02/20 ffice (cately officer K: 6560121, Fax: 011-6560019 chuna: "NATGRID-
sistiger matten, ds. 19. grgs verflergerer telsa, acatest mass, of facets 1160-16. afvilue Registered Office: B-9, Quteb Institutional Area, Katsuria Sarat, New Delhi- 110016, EPRA:	RE 0590121, WHE O 11-6 550029. INS. Teller

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Ref: USTL	/20-21/TW-02/P-54B/	1182		Unique
Dated: 2	5th June 2020		J. J. P.K.	
To,		Forther w	lint for P	AD STRUCTURES
The Regi	onal Safety officer	10	anger (4	TOWERS
Shillong	and the standing of a state	cy you	agioral Satel	1071 2022 & TOWERS
Through	/	Vinder .	101	IM SHALIMITED
Dy. Gene	ral Manager (NERPSIP)	. vie	1 contest	A .
Power Gr	id Corporation of India	Limited,	in the second	
Khlichria	(Meghalaya)	C	2810	

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

- - 2) Your letter no. NERPSIP/Safety/Audit/113/2019 Dated 14.11.2019 3) Your letter No.: NESH/Safety Audit/113/2020/50 date 24.02.2020

Dear Sir,

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

SI No	Observations	Compliance		
A	Observation points on dated 14.11.2019			
1	Prior to atringing checklist is not available. The check list shall be duly filled and shall be signed by the contracting agency as well as by the POWERGRID personnel for each individual span prior to start the stringing activity.	Copy of checklist is attached duly signed by us and POWERGRID for your record.		
2	Induction training & medical health checkup for the newly engaged workers / fitters are yet to be done. The same shall be ensured prior to engage them at work.	 Copy of Health checkup report is attached for your record. 		
3	Proper stringing procedure i.e. simultaneous stringing of the circuit viz. top-top, middle-middle and bottom-bottom shall be ensured	We are ensuring the same procedure will be adopted.		
4	Power winch m/c is not available at site, required to be made available at working site for safe stringing activity in hilly terrain.	stringing activity of hilly terrain section.		
5	Retractable fall arrester is yet to be procured. The same shall be procured urgently.	Retractable fall arrester provided to stringing workers. Purchase document and picture attached for your record. (Annexure -IV)		
6	During audit it has be observed that the compressor machines are being used do not have meter. Compressor machines having meter shall be made available at stringing site to ensure the proper compression of the joints.	Compressor machine replaced. (Picture attached for your record.) (Annexure – V)		
: 0788- 788-22 : ustibhi	Activity Regional Office Justrial Area, Bhilai-490 026 (C.G.) 2nd floor, "Siti Centre" 4082400, 2285409, 2281606 26A Cantonment, G.S. Roi 85574, 4082421 Shillong - 793002, Meghal Juid@ustl.co.in Phone: 0364-2544012, Fax 7310CT1985FLC002887 Email : ustishillong/austl.co.in	aya Phones::0771 - 2324944, 2324945, 3295611, 42 10364-2544046 Fax::0771 - 2324450, 4215555		

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

				Uniqu		
				STRUCTURE		
				& TOWER		
				LIMITE		
7	During audit it is found fall arrester is not install where work at height is installation of the same n for safe ascending & des tower	led in the tower under progress, nust be ensured	arrester to uses of Ro height.	also provided Rope Grab fall o workers and we are insuring the ope Grab fall arrestor while work at tached for your information.)		
.8	It is also found that hoo being used in horizontal is type pulley. This may untoward incident / accide	oad instead of I- leads to any	We have a workers ar be used in	also provided the I-type pulley to nd insuring the in I-type pulley will a horizontal load.		
 9 Load is given to chimney without adequate protection. Strong wooden log/plank & sand bag protection shall be given prior to given any load to the tower leg/chimney. 			sand bag and we are insuring the tower leg			
10	First aid box shall be ma	ade available in				
B	Observation points on da	ted 24.02.2020				
 During audit it has been back stay is not provider no 1A/0 (DD+0) 		ed at tower location (DD+ (Pictu		Back stay is placed at tower location no 1A/0 (DD+0) (Picture attached for your record.) (Annexure - VI)		
2	Compressor machine beir observed without meter. ' m/c without meter shall b working sit and new compr meter shall be provided.	The compressor	(Picture attached)			
3	The duly filled & signed ch start stringing activities) individual span shall mad copy shall be submitted to	against each le available and	us and POWERGRID for your record.			
4	First aid material in the fit observed insufficient, the refilled.	rst aid box at is	First aid box material refilled at every			
5	Height pass, medical fin and inductor training reco- engaged at work site shall POWERGRID.	ord of the fitters	Copy of	Height pass, medical fitness and induction training record is		
6	During audit it has been of arrestor locks are not p fitter, the fall arrestor provided to each individua ascending & descending.	rovide to each lock shall be		provided arrestor locks to each		
	for					
: : 0788-4 0788-228 : astibhi	ustrial Area, Bhilai-490 026 (C.G.) 2m 4082400, 2285409, 2281606 26. 85574, 4082421 Shi lai@ustl.co.in; info@ustl.co.in Pho	egional Office id floor, "Siti Centre" A Cantonment, G.S. Ross illong - 793002, Meghals innet: 0364-2544012, Fax nall : ustishillong@ustl.c	laya : : 0364-2544046	Works Office : Plot No. 263 to 268 & 306 to 311, Urla Industrial A Raipur - 493 221 (C.G.) INDIA Phones :0771 - 2324944, 2324945, 3295611, 42155 Fax : 0771 - 2324450, 4215555 Email ustlrpr@ustl.co.in		

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

POWER GRID CORPORATION OF INDS A LIMITE (A Government of India Enterpris 18/2019/675 Date: 27.12.2019
18/2019/645 Date: 27.12.2019
Indrajit Das Gupta
Indrajit Das Gupta
Insafe work conditions, Non-compliance of sufcty
W/SAFETY/F-118/2018/210 DATE 03.11.2018 W/SAFETY/F-118/2019/297 DATE 22.01.2019 28.02.2019
of Monthly Safety Report dated: 02.04 2019, 27.07.2O 19 &
FETY/F-118/SW/2019/652 DATE: 26.11, 2019 usion of Monthly Safety Report dated: 26.12.2019
o follow the terms and conditions of the SAFETY I that all workmen must use PPE at site during work, deploy qualified safety personnel for the concerned RGRID officials visit it was found that your safety in and verbal communications from us submission of it had been seen your workmen working in unsafe shall be bound to impose a penalty of Rs 10,000/day
1 needfol action.
(TV RAO) DGM/NERPSIP AIZAWL
ion.
dBen, Feith arguite, Builletti, vytkost, \$000 norphj, mizerannikpowengeld telle 151, Alased, Milantan 200009 erusit norphje mizerannitpowengeld telle 153, 19504 - Izaasi Jefferdet grund ompelje mizerannitpowengeld telle 154, 19504 - Izaasi Jefferdet grund telle 2022-2021/200-219 157-50, Grungam-122001, desyster Tell 0124-2021/200-219 15. 2010 Nor 011-25560112, 2055612, 20556492, 20556493, CNV 14010101, 1980504036121

	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	26°14'58.61"N 91°34'18.98"E	26°16'20.13"N 91°30'13.17"E	Location changed by AEGCL due to non-finalization earlier identified land. New location is 7.3 km north west from earlier location.
10	33/11kV GS Road	26°9'47.17"N 91°46'16.39"E	26°10'4.19"N 91°45'37.22"E	The land owner & APDCL could not reach a common agreement. Therefore new land finalized within APDCL premise (approx. 1.2 kms north west of earlier location).
Me	ghalaya			
1	220/132/33 kV New Shillong GIS	25°36'47.90"N 91°56'38.85" E	25°37'45.08"N 91°59'34.38"E	Location changed by MePTCL due to non-finalization of earlier identified land. New land was selected/ finalized which is 5.5 km north west from earlier location.

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

3	33/11 kV	Not provided	24°40'55.72"N	New land selected/finalized by MSPCL approx. 2.5 km from earlier location
	Leimapokpam		93°50'35.45"E	
4	33/11 kV	Not provided	24°27'12.96"N	New land selected/finalized approx. 1.5 km from earlier location as land owner &
	Kwakta		93°43'45.04"E	MSPCL could not reach a common agreement in earlier identified land.
5	33/11 kV	24°48'24.96"N	24°49'18.05"N	Final location is 1.5 km north from earlier location.
	Porompat	93°59'53.25"E	93°59'59.00"E	
Miz	oram			
1	132/33 KV	22°50'19.32"N	22°51'13.02"N	Earlier site proposed by PEDM has been shifted about 1.6 km towards the northwest
	Lungsen	92°36'5.76"E	92°35'38.63"E	direction due to space constraint.
2	33/11kV	22°19'42.56"N	22°22'11.23"N	Earlier site proposed by PEDM has been shifted about 4.6 km towards the north
	South	92°45'57.35"E	92°45'24.28"E	direction.
	Bungtlang			
Nag	galand			
1	132/33 KV	24°44'31.22"N	24°43'55.75"N	Location changed due to space constraints. Final location is 1.6 km south west of
	Kohima	94°06'24.94"E	94°5'39.64"E	earlier location.

Appendix-4 : Sample Case of Compensation Process

Serial	28 No.: State/I		id Corporation of Industry Index, Imphal 79511	3 Contact No:	1262139304	ावरविग्रह इ./ २०२०			
To, Sri/Ms. Tahsil	Construction of .	Sec. 1	t. Bishnupuh	Sta	Village	.			
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SI. No.	LOCATION/ SPAN	LAND KHASARA/DAG/PATTA No.	DETAILS OF LAND A DIMENSION OF LAND		OOTING/ ROW DURING CONSTR			er for la	
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Land Compensation Assessment duly certified by Revenue Authority

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Compensation Assessment duly certified by Revenue Authority and DC

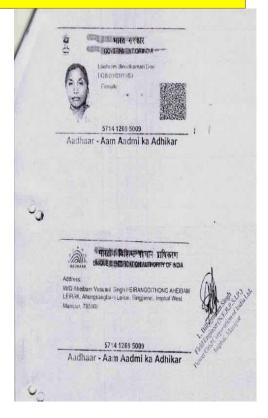
Image Image Image Above Girth 3' 4.400/tree NOTIFICATION 2. Timber Class 'B' & 'C' Girth (1'-3') 4.100/tree The undersigned is pleased to notify the following rates of compensation for damage of trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land under Power Grid Project within Kohima District trees /plantation / Land Under Power Grid Project within Kohima District trees /plantation / Land Under Power Grid Project Within Kohima District trees /plantation / Land Under Power Grid Project Within Kohima District trees /plantation / Land Under Power Grid Project Within Kohima District trees /plantation / Land Under Power Grid Project Within Kohima District trees /plantation / Land Undero Power Grid Project Within Kohima District trees /pla		411	- P				
NO. REV/PWR/2014//// Dated Kohima the March 2019 Kno. Rems Categories Site Rate NO. REV/PWR/2014//// NOTIFICATION 1. Timber Class A Girth [1'-3'] R.200/ tre NOTIFICATION * 3. Firewood: (more class 'B' & C' Girth [1'-3'] R.300/ tree * The undersigned is pleased to notify the following rates of compensation for damage of trees /plantation / Land within Kohima District * 5. Firewood: (more class 'B' & C' Girth [1'-3'] R.300/ tree * Land rates to be compensated in full (i.e 100%) as determined by the rates fixed. bamage around the RoW corridor to be compensated as per existing rates. * Fruit trees:- Si. No. Fruit trees:- Si. No. Fruit trees:- Si. Pire approach road, damage compensation will be given to the landowners 1. Orange 1400 /tree 700//tree 3. Bananaa 350//tree 175//tree 3. Bananaa 350//tree 125//tree 4. Bampo 8. Peach 350//tree 125//tree 3. Transmission Voltage In kV Width of Right of Way in metres 66 kV 18 920//tree 125//	OFFICE OF THE DI	EPUTY COMMISSIONER	1	//PWR/2014///	1	Dated Ko	
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3. Firewood: (more than 1' girth only/ Common variety than 1' girthon 1' girth only/ Common variety than 1' gi	NOT	TELCATION	2.	Timber	Class 'B' & 'C'		₹. 160/tree
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etes y juintation / Land under Power Grid Project within Kohima District trees /plantation / and within Kohima District. I atti variety 1.30 /plantation / Fruit trees:- • Land rates to be compensated in full (i.e 100%) as determined by the rates fixed. Damage around the RoW corridor to be compensated as per existing rates. Fruit trees:- Inti variety Non-Fruit bearing (T) Non-Fruit bearing • Damage around the RoW corridor to be compensated as per existing rates. For approach road, damage compensation will be given to the landowners Fruit trees:- Inti variety Non-Fruit bearing able for RoW width for different voltage lines: Inti variety Victore 700/tree ransmission Voltage in kV Width of Right of Way in metres So /tree 175/tree 132 kV 27 Jack Fruit Sto /tree 175/tree 21 220kV 35 So /tree 175/tree			3.		1		The second s
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able for RoW width for different voltage lines: 4. Guava 350/tree 175/tree ansmission Voltage in kV Width of Right of Way in metres 5. Pineapple 5200 per acre of ₹.5/- per sucker Same rate as fruit bearing 66 kV 18 350/tree 175/tree 350/tree 175/tree 132 kV 27 220kV 35 Plum 350/tree 175/tree 51. No. Category Rate per Sqft (₹)	 For approach road, damage compensation 	ation will be given to the landowners	2.	Pear	350 /tree	17	5/tree
able for RoW width for different voltage lines: Same rate as fruit rainsmission Voltage in kV Width of Right of Way in metres Same rate as fruit Same rate as fruit 66 kV 18 50/tree 350/tree 350/tree 132 kV 27 350/tree 175/tree 220kV 35 Rate per Sqft (₹)			З.	Banana	350/tree	17	5/tree
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in smission Voltage in kV Width of Right of Way in metres 66. Mango 875/tree 350/tree 66 kV 18 9. Plum 350/tree 175/tree 132 kV 27 350 175/tree 175/tree 220kV 35 8. Peach 350/tree 175/tree Si. No. Categories of land: 175/tree 175/tree	able for Polly width for different of the st		5.	Pineapple		the free	
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8. Peach 350/tree 175/tree 132 kV 27 9. Plum 350/tree 175/tree 220kV 35 35 Categories of land: 51. No. Category Rate per Sqft (₹)	ransmission Voltage in kV	Mildal of Brills - Cont			350/tree	17	5 /tree
10 9. Plum 350/tree 175/tree 132 kV 27 Categories of land: Category Rate per Sqft (<)			8.	Peach	350/tree	17	5/tree
Z/ Categories of land: 220kV 35 Sl. No. Category Rate per Sqft (₹)		18	8.000C	Plum	0.0051/0.002		5/tree
220KV 35	132 kV	27	Catego	ies of land:			
t Torona (Devidentia) P 350	220kV	35	SI. No.	Category	Rate per Sqft (र)		
	400 kV S/C		1.	Terrace / Residentia		₹. 150	
40 2. Developed Area C. 100	400 KY 5/C	46	2.				
400kV D/C 45 5.95	400kV D/C						
40 4, JHUM 5.70		46					
765 S/C (With delta configuration) 64	765 S/C (With delta configuration)	64	8% Esta	blishment costs and 2	Contingency costs	s will be included.	
104 · · · · · · · · · · · · · · · · · · ·		0.046					
765 D/C 67	765 D/C	67					0



Notification/Fixation of Rate by Concerned Authority

PAONABAZAR যুনাহুঠে ৰীক আঁফ হুঁটিযা UNITED BANK OF INDIA या धारक को Or Beare lle Pai ₹ अदा करें 00 सपये Rupees 04840110999/13 A/c.No. AISHRAM BINODKUMARI DEVI Payable at par at all branches सभी वारवाजों में सगापूल्य पर देव the son above this link MPUSE "884525" ?9502?00?" 099913" 31 217

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



Appendix- 5:	Details	of Borrow	Area	Management	/Improvement
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SI No.	Name of Substation	Total Volume (m ³)	Coordinates	Source
			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	25°24'47.89" N 91°59'52.16" E	Community land utilized for development of road in agreement with community.
			Tripura	· · · · ·
1.	132/33kV Mohanpur	1344	23°57'0.57" N 91°23'4.05" E	Borrowed earth from private land with due consent from land owner.
2.	132/33kV Rabindranagar	814	23º27'35.76" N 91º16'22.36" E	
3	33/11kV Golaghati	3182	23°41'47.50" N 91°21'59.80" E	
3	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 1005 NO.2160 DIBRUGARH FOREST DIVISION SEC-RULE 46 1) Assistant Concernator of Fores-Dibrugart Division Date RANSPORT OF MINOR MINERAL Book No. 1. Name and address of the Permit Shri Mrinal Dowarah Chowkidinghee, Dibrugarh ermit holder man 1 Renu bi Engliger Holder Nowjan Habi Gaon, Dag No. 90x91 2. Details of the area of Permit Patta No 28 tail of the quarry / Lease / Permit P700- 11/2467 df 07/09/2017. Khowang Range 3. Location of area Khowang Range Under Sandi Soil 4. Range of the Division where the ne and address of the person Contractors to whom materal has been sold and led <u>Address Pours</u> In 12a families <u>PT Reed</u> Janey antity 10 × 10 Tip = 100 m² (no hundred) of Minor Mineral materials is located **Dibrugarh** Division Earth 5 Name of the Minor Minerals DBR 14/4- 61/2017/7159-60 6. Permit No. & Date of issue 15/1/2018 ck No. / R.R. No. Carried No. AS+0190 /9599 7. Date of expiry of permit, NECCON POWER & ENFRAC 8. Name & address of the Persons d address of the Driver in ras the Minor Minerials is to Be transported By road to whom materials has been A.T. Road. Jorhat. t delivery of Materials Sasupathin 132 KVA/33KV Sub Station sold & Supplied 9. Quantity of materials being 10 cm (Ten) transported under this transit 08/05/2018 Challan 08/05/2018 AS-06 BC - 1717 me of dispatch. 10. Vehicle No. Samiran eas 11 Name & Address of the Driver 220 KV /132 KV Behiading & 12. Place of delivery of materials 13. Date & time of despatch 15 12/14 Signature of the lease / permit holder DDO 55/2016/88-A/1060 14. DEIAA Dibrugarh dtd - 28 3.17 Letter No. Signature of permit holder Sample of transit challan of borrowed earth for 220/132 kV Behiating & 132/33 kV **Sarupathar Substation** 121-20-20-2029 THE ATT. ANT Government of Manipur Office of the Divisional Forest Officer: Central Forest Division MUNIT LAYER IMPHAL: MANIPUR CERTIFICATE Trans - refit Storen 7221 Imphal, the 21st March, 2018 Division, Govi STREET. No.5/12/2016-17/DFO/C: This is to certify that DGM, Ch. Lokendra Singh M/S WIN Power Infra Pvt. Ltd, Yurembam, Imphal West has paid Rs. 2.888/- (Rupees two thousand eight hundred eighty eight) only being the royalty and GST for 110 cum of earth for filling at מוציים שניינס צמומות דו מומטונים ומנסוניות מוש-נעמי 33/11 KV Power Sub Station at Top Khongnangkhong, Imphal vide T.R. V No. 465926 dt. בניים לשים בולה נושאים. דייובם הועונהם לשומים ליושאי שובחונים בליצר עצורי יותר יותר הוועות לאלט 20/03/2018. िलेख मान वायान जासि भुवदे दोव्हा यह इतन्द्र रकारता अप्रथा किएक राम ना। निमि भारक्षमंत्र भाषिष्ठ (L. Joykumar Singh) Divisional Forest Officer, Central Forest Division Government of Manipur आधारिक सीधन निवनन निर्णत निधनाझ-T.R. 5 No. 465326 Chiart - Barring, strange an and, भारताम - द्वार , अप्रीचन भूवे तारवामा Withdeling No (Win power put thing rateria survive - Tecation Dated." Dated the sum entropees top thousand cight handes In cash on account of eight angel By cheque on account of eight and bridge In payment of the cash it a cum. 346 Royalty - Ro. 2750 2:570557Ro. 69 2:52 JOSTRO. 69 TELLE GARNO 2888/ जोन्ध्र जार्र 20/2 Thitial 3/17 Designation Initia

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

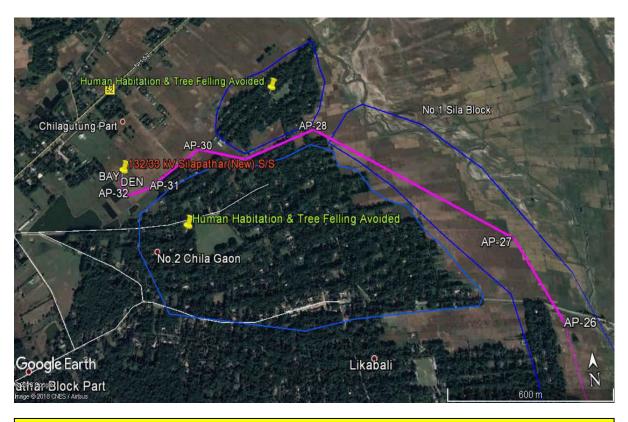
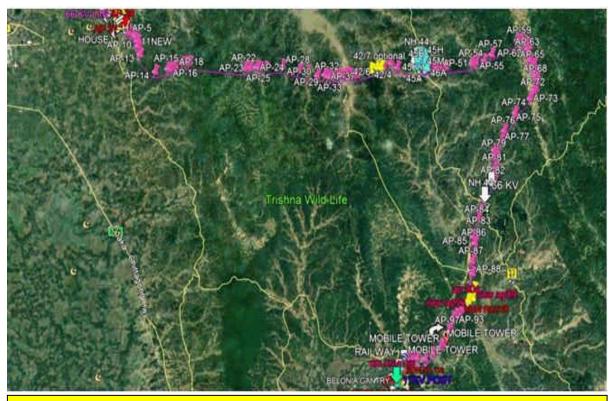
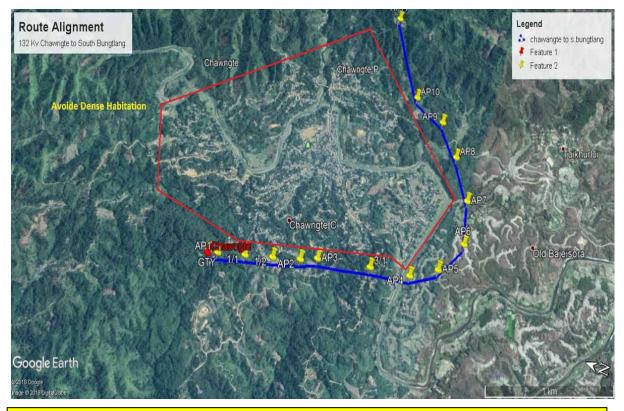


Plate 7: Avoidance of Environmentally and Socially Sensitive Areas

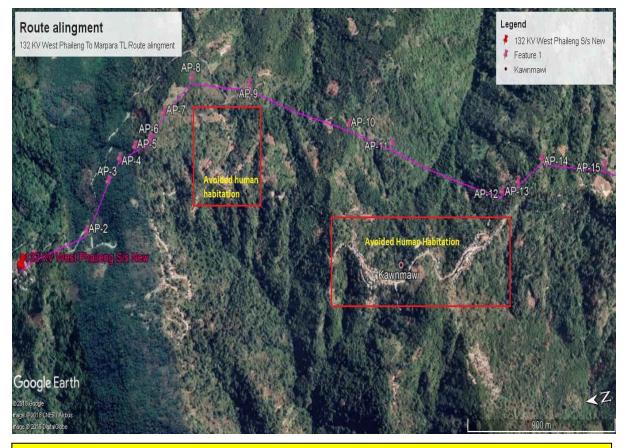
Avoidance of Human Habitation & Tree Felling in Dhemaji-Silapather 132kV line in Assam



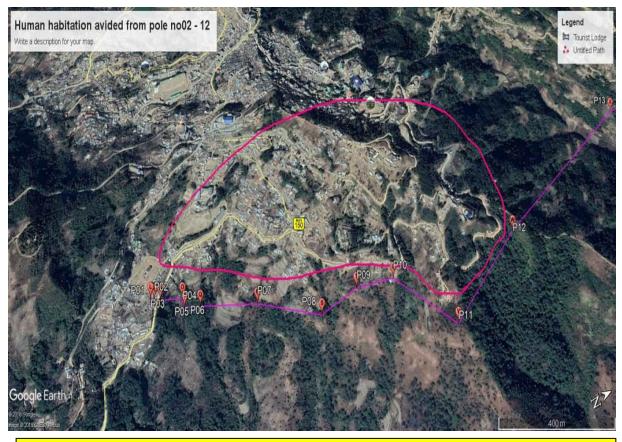
Complete Avoidance of Trishna Wildlife Sanctuary by adopting even more circuitous route (AP-14 to AP-109)for Rabindranagar- Belonia 132kV line in Tripura



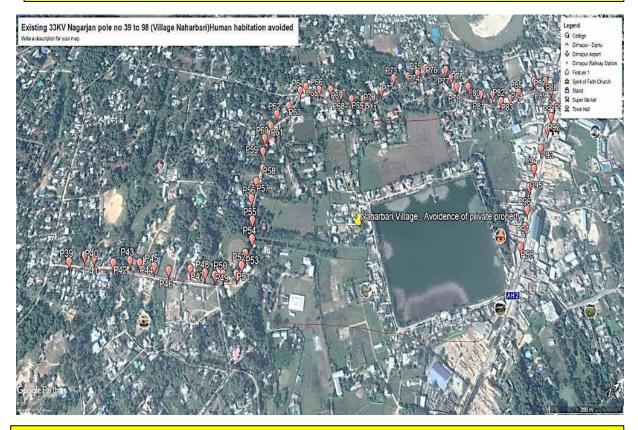
Avoidance of dense habitation area (AP-1 to AP-15) for Chawngte-S. Bungtlang 132kV line in Mizoram



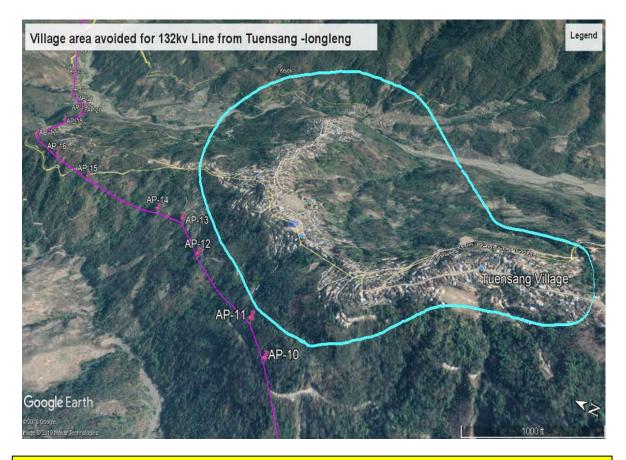
Avoidance of habitation area (AP-1 to AP-16) for West Phaileng- Marpara 132kV line in Mizoram



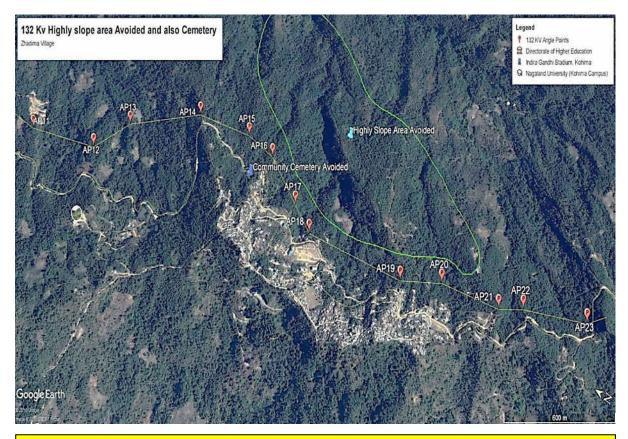
Avoidance of dense habitation area (Pole- 2 to Pole-12) for Pfutsero - Pfutsero 33 kV line in Nagaland



Avoidance of dense habitation area (Pole- 52 to Pole-98) even adopting more circuitous route for Nagarjan -Padam pukhri 33 kV line in Nagaland

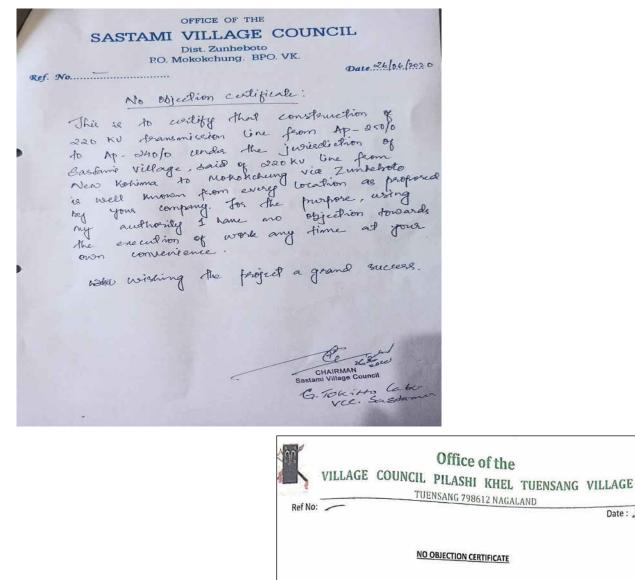


Avoidance of habitation area for Tuensang – Longleng Complex 132kV line in Nagaland



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

Plate 8 : NoC/Consent from ADC/VDC/Land Owners



This is to certify that the construction of 132 KV from Tuensang to Longleng ,AP-12/0 to AP-37/0 , which falls under the jurisdiction of Pilashi Khel Tuensang Village is well known as proposed by your company.

Therefore the Village Council is issuing this no objection certificate for execution the works anytime as to your convenience. (S.AJONG) Chairman Village Council, Tuensang Village P.Khel. the Hangan Hd L.1 Chairman VILLAGE COUNCIL Will P/Khel Tuensang Village P/Khel 24/5/2020

Date : 24/5/020

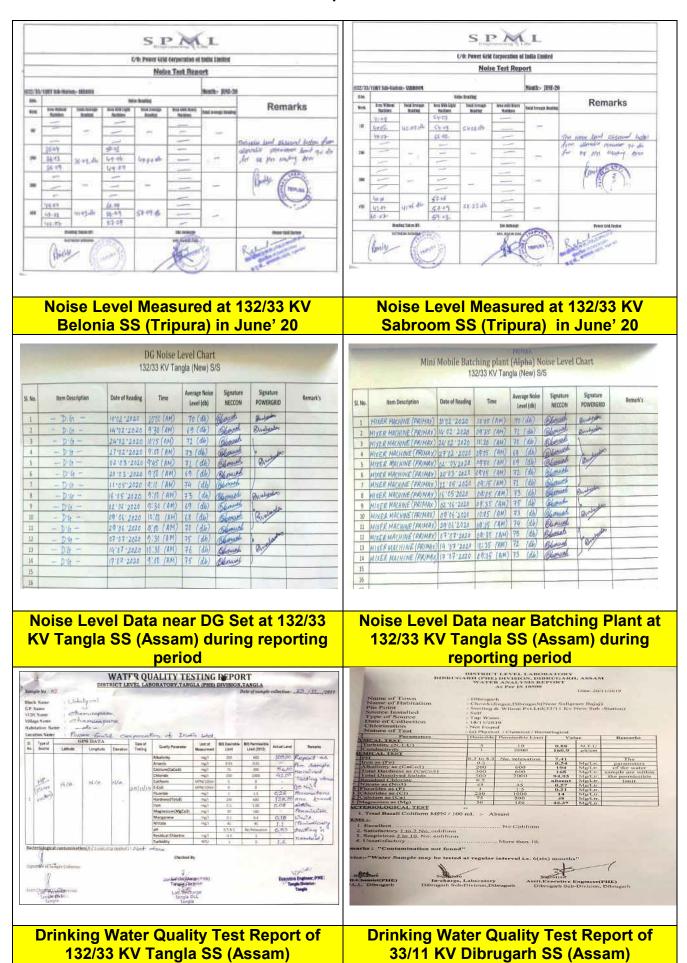


Plate-9 Noise & Water Test Report at Different Construction Sites

Plate- 10: Community/Villagers Safety



Display of Signage Board



Proper Barricading of Work Area



Safety Awareness and Information dissemination before start of work

Plate -11 : Permission/Way Leave for Rail/Road Crossing & UG Cable lying work

	<u>N. F. Railway</u>	Office of the Sr. Divisional Engineer/Co-or Maligaon, Guwahati-11	Let all
No. W/214/Way leave/PG/G/APDC To Chief Executive Officer Guwahati Electrical Circle-I APDCL (LAR), Ulubari Guwahati-781007.	CL/Pt.1 .	Date: '≦.06.2017	
Sub:- Way leave facility in con track by 33 KV electric li APDCL,), Ulubari, Guw	ne at Km.9/1-2 & Km.	d underground crossing of Railwa 9/9-10/0 of KYQ-GHY section by	ау
Ref:- APDCL online applicatio (i) NFR-LMG-2016-117 dtd.21.11.2016.		NFR-LMG-2016-118	r
executed between the Railway a blue print copies of the Sr.DEN.C connection with laying and under Km.9/1-2 & Km.9/9-10/0 of KY requested to execute the work i agreement.	and APDCL (LAR), GE C/MLG's approved plan ground crossing of Ra 'Q-GHY section by A n accordance with the the U/G electric line, a	n Nos. SK/06/2017 & SK/07/2017 ilway track by 33 KV electric line APDCL, Ulubari, Guwahati-7. It	vith / in e at is and
With regards.		Yours Sincerely,	
DA:- As above		(Ajay Kumar) (Ajay Kumar) Sr.Divisional Engineer/W/GHY N. F. Railway, Maligaon	
Copy to:- Sr.DSTE/MLG] for informal Sr.DEE/GHY } ADEN/T/GHY ADEN/W/GHY, SSE/W/GHY SSE/P-Way/GHY, SSE/P/GH SSE/Tele/GHY, SSE/Sig/GH	for information a in this regard plue		
		Sr Divisional Engineer/W/GHY N. F. Railway, Maligaon	
Misc Letter~	142.6		

GOVERNMENT OF ASSAM OFFICE OF THE EXECUTIVE ENGINEER PWD (ROADS) NORTH GUWAHATI STATE ROAD DIVISION AMINGAON::GUWAHATI-31

Date. @ / 11 / 2019 NO.NGSDD/Com-58/ 75:95 10, The General Manager, NERPSHIP PM-II, Guwahati Permission for excavation on the Road for laying of 132 KV underground power cable Sub : under North East Regoinal Power System Improvement Project (NERPSIP) at Guwahati i) Your letter no NERPSIP/GHY/1024/PWD/2019/2221 dated 23.09.2019 Ref : 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 held 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. I 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.
- 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.
- 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.
- 7 The NOC is subject to no objection from other statutory organization such as District Administration. District Police Authority, PHE/APDCL etc.

Yours faithfully, 21 cr

Plate -12: Photographs of various measures undertaken at construction Sites in response to COVID-19 pandemic





