

# COMPENSATION PLAN FOR TEMPORARY DAMAGES (CPTD)

FOR

## T&D NETWORK IN GUMTI & SOUTH TRIPURA DISTRICTS IN TRIPURA



Prepared By

Environment and Social Management

**POWER GRID CORPORATION OF INDIA LTD.**

For

**TRIPURA STATE ELECTRICITY CORPORATION LIMITED (TSECL)**

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## LIST OF ABBREVIATIONS

ADC	:	Autonomous District Council
AP	:	Affected Person
CEA	:	Central Electricity Authority
Ckt-Km	:	Circuit-kilometre
CGWB	:	Central Ground Water Board
CP	:	Compensation Plan
CPTD	:	Compensation Plan for Temporary Damages
CPIU	:	Central Project Implementation Unit
CRM	:	Contractor Review Meeting
DC	:	District Collector
D/C	:	Double Circuit
DL	:	Distribution Line
DM	:	District Magistrate
DMS	:	Distribution Management System
EHV	:	Extra High Voltage
EHS	:	Environment Health & Safety
EMP	:	Environment Management Plan
E&S	:	Environmental & Social
ESPP	:	POWERGRID's Environmental and Social Policy & Procedures
ESPPF	:	TSECL's Environmental and Social Policy & Procedures Framework
GoI	:	Government of India
GRC	:	Grievance Redress Committee
GRM	:	Grievance Redress Mechanism
Ha	:	Hectare
HPC	:	High Powered Committee
IA	:	Implementing Agency
INRs	:	Indian National Rupees
IP	:	Indigenous People
IR	:	Involuntary Resettlement
JCC	:	Joint Coordination Committee
kV	:	Kilo volt
Km	:	Kilometer
LA	:	Land Acquisition
MCM	:	Million Cubic Meter
MoP	:	Ministry of Power
M&E	:	Monitoring and Evaluation
NOC	:	No Objection Certificate
NER	:	North Eastern Region
NERPSIP	:	North Eastern Region Power System Improvement Project
O&M	:	Operation and Maintenance
OP	:	Operational Policy
PAP	:	Project Affected Person
POWERGRID	:	Power Grid Corporation of India Limited
PPIU	:	PMC Project Implementation Unit
RFCTLARRA	:	The Right to Fair Compensation and Transparency in Land, Acquisition, Rehabilitation and Resettlement Act, 2013
RoW	:	Right of Way
RP	:	Resettlement Plan
R&R	:	Resettlement and Rehabilitation
S/C	:	Single Circuit
SC	:	Scheduled Caste

Sq. M.	:	Square Meters
SMF	:	Social Management Framework
SPCU	:	State Project Coordination Unit
ST	:	Scheduled Tribe
T & D	:	Transmission & Distribution
TL	:	Transmission Line
TSECL	:	Tripura State Electricity Corporation Limited
TTADC	:	Tripura Tribal Autonomous District Council
USD	:	United States Dollar
WB	:	The Word Bank

## **GLOSSARY**

TTADC/ Autonomous District Council/ Village Council	:	An autonomous body/institution formed under the provisions of 6 <sup>th</sup> Schedule of Constitution of India which provides tribal people freedom to exercise legislative, judicial, executive and financial powers.
Zila/ District	:	It is the first administrative division at the State level.
Sub-division	:	A revenue sub-division, within a district.
Block	:	An administrative sub-division within a district.
Panchayat	:	The third tier of decentralized governance.

## EXECUTIVE SUMMARY

i. The Compensation Plan for Temporary Damages (CPTD) has been prepared for Transmission & Distribution (T & D) network in Gumti and South Tripura Districts of Tripura State under North Eastern Region Power System Improvement Project (NERPSIP) which is being funded by Govt. of India (GoI) and the World Bank (WB). The Implementing Agency (IA) is Power Grid Corporation of India Limited (POWERGRID). The present CPTD is based on the Environmental and Social Policy & Procedures Framework (ESPPF) of Tripura State Electricity Corporation Limited (TSECL).

ii. The project components include construction of 5 no. 132kV D/C lines of 127.92 km length along with associated 5 no. of new 132/33kV substations and 19 no. 33kV lines of 251.692 km length along with associated 13 no. of new 33/11kV substations located in Gumti & South Tripura districts of Tripura. The present CPTD has been prepared based on the detailed survey/investigation. However, the temporary impacts on land and loss of crops/ trees occurred only during the project implementation/ construction. Therefore, the CPTD remains as draft, as actual temporary impacts on crop/ tree including details of Affected Persons (AP) shall be ascertained during check survey and tower spotting once the construction contractor is mobilized for implementation. TSECL/ POWERGRID<sup>1</sup> provide compensation for actual damages after assessment by revenue authority. Check survey is done progressively during the construction of the transmission line. Normally the work is done in off season when there is no standing crop. The compensation for damage is assessed in actual after construction activities of transmission lines in three stages i.e. after completion of foundation, tower erection and stringing of conductor. The payment of compensation is also paid in three instances, if there are damages during all the above three stages. Assessment of damages at each stage and subsequent payment of compensation is a continuous process. Hence, CPTD updating will also be a continuous process during construction and updated data on APs shall be disclosed through semi-annual E & S monitoring report submitted by TSECL/ POWERGRID.

iii. The project components under the scope of present CPTD include following transmission & distribution lines and associated substations;

### **A. Transmission Scheme Component**

#### **i) Transmission Lines:**

1. Udaipur - Bagafa 132kV D/C line - 31.943 km

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<sup>1</sup> For the purpose of CPTD, TSECL and POWERGRID may be referred as SPCU and PPIU respectively. For further details, please refer Chapter - VII Institutional arrangements.

2. Bagafa - Belonia 132kV D/C line - 12.745 km
3. Belonia - Sabroom 132kV D/C line - 38.623 km
4. Bagafa - Satchand 132kV D/C line - 29.376 km
5. Udaipur - Amarpur 132kV D/C line - 15.231 km

**ii) Substations:**

1. Establishment of 132/33kV substation at Bagafa
2. Establishment of 132/33kV substation at Belonia
3. Establishment of 132/33kV substation at Sabroom
4. Establishment of 132/33kV substation at Satchand
5. Establishment of 132/33kV substation at Amarpur

**B. Distribution Scheme Component**

**i) Distribution Lines:**

1. Amarpur (New) S/s - Dalak (New) S/s 33kV line - 14.332 km
2. Dalak (New) S/s - Jatanbari (Existing) S/s 33kV line - 7.932 km
3. Amarpur (New) S/s - Checua (New) S/s 33kV line - 19.765 km
4. Taidu (New) S/s - Checua (New) S/s 33kV line - 16.215 km
5. Taidu (New) S/s - Teliamura (Existing) S/s 33kV line - 13.401 km
6. Maharani (New) S/s - Garjee (New) S/s 33kV line - 20.104 km
7. Maharani (New) S/s - Udaipur (Existing) S/s 33kV line - 6.017 km
8. Chittamara (New) S/s - Garjee (New) S/s 33kV line - 19.487 km
9. LILO point of Tirthamukh to Silachari line at 33/11kV Karbook (New) S/s - 0.140 km
10. Chittamara (New) S/s - Belonia (New) S/s 33kV line - 9.539 km
11. LILO point of Belonia to Rajnagar line at 33/11kV Barpathari (New) S/s - 9.627 km
12. Ekinpur (New) S/s - Rajnagar (Existing) S/s 33kV line - 15.918 km
13. LILO point of Julaibari to Bagafa line at 33/11kV Muhuripur (New) S/s - 15.683 km
14. Srinagar (New) S/s - Manughat (New) S/s 33kV line - 16.223 km
15. Srinagar (New) S/s - Satchand (New) S/s 33kV line - 17.664 km
16. Tapping point of Belonia to Hryshumukh line at 33/11kV Srinagar (New) S/s - 15.329 km
17. Manughat (New) S/s - 132/33kV Sabroom (New) S/s 33kV line - 12.825 km
18. Rupaichari (New) S/s - Sabroom (New) S/s 33kV line - 14.578 km
19. Rupaichari (New) S/s - Satchand (New) S/s 33kV line - 6.913 km

**ii) Substations:**

1. Establishment of 33/11kV substation at Dalak
2. Establishment of 33/11kV substation at Checua
3. Establishment of 33/11kV substation at Taidu
4. Establishment of 33/11kV substation at Maharani

5. Establishment of 33/11kV substation at Garjee
6. Establishment of 33/11kV substation at Karbook
7. Establishment of 33/11kV substation at Chittamara
8. Establishment of 33/11kV substation at Barpathari
9. Establishment of 33/11kV substation at Ekinpur
10. Establishment of 33/11kV substation at Muhuripur
11. Establishment of 33/11kV substation at Srinagar
12. Establishment of 33/11kV substation at Manughat
13. Establishment of 33/11kV substation at Rupaichari

iv. As per existing law, land for tower/ pole and right of way is not acquired<sup>2</sup> and agricultural activities are allowed to continue after construction activity. Land requirements for erecting tower for 132 kV transmission lines are quite minimal and require placing of four legs which need an area of 4 to 6 sq.ft. Thereby, the actual impact is restricted to these 4 legs and some constraints in area coming in between these 4 legs of the tower. Further, line alignments are done in such a way so as to avoid settlements, structures etc. Hence, no relocation of affected persons on account of Transmission Line (TL) is envisaged. Most of the impacts are temporary in nature of loss of standing crops/ trees and other damages for which compensation will be paid to the affected persons including cost of land for tower base area to its owner without acquisition or transfer of title as per provisions of law and Entitlement matrix defined in ESPPF.

v. For the temporary loss of crops, only agricultural land and private plantation land are considered for estimation. Though Right of Way (RoW) for 132kV & 33kV lines are 27 meter & 15 meter respectively, but average affected width/ corridor would be limited to maximum 20 meter for 132kV & 10 meter for 33kV line. Accordingly, for construction of proposed lines, actual impacted area for crops and other damages worked out to be approx. 382.276 acres. Total 13,332 number of trees likely to be affected excluding 433 bamboos during construction of line. Private trees will be compensated as per the entitlement matrix. The total number of affected persons is estimated to be 1,642. However, for the 33kV lines, entire line corridor passes through the govt. / barren land, actual impacted area for crops and other damages is negligible as no trees will be felled during the construction of 33kV lines. However, pruning of trees may be required at some locations.

vi. Public participation and community consultations have been taken up as an integral part of the project's social and environmental assessment process. Public is informed about the project at every stage of execution. During survey also TSECL & POWERGRID's site officials meet people and

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<sup>2</sup> 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.



informed them about the routing of transmission/distribution line. During the construction, every individual, on whose land tower is erected and people affected by RoW, are consulted. There were many informal group and public consultation meetings conducted during survey of the entire routes of transmission lines and substation sites. The process of such consultation will be continued during project implementation and even during Operation & Maintenance (O&M) stage. The draft/ summary CPTD will be disclosed to the affected households and other stakeholders by placing it on website. To maintain the uninterrupted communication channel, TSECL & POWERGRID's site officials are meeting APs and inform about norms and practices of damage assessment and compensation thereof. For wider circulation executive summary of the CPTD and Entitlement Matrix will be translated in local language and placed at construction offices/ sites.

vii. Grievance Redress Mechanism (GRM) is an integral part of project implementation, operation and maintenance stage of the project. For handling grievance, Grievance Redress Committee (GRC) has been established at two places, one at the project/ scheme level and another at corporate/ head quarter level. The GRC includes member from TSECL, POWERGRID, local administration, village panchayat members, affected persons representative and reputed persons from the society and representative from the tribal autonomous district councils selected/decided on nomination basis under the chairmanship of project head. The composition of GRC has been disclosed in Panchayat/ village council office and concerned district headquarter for wider coverage. In case of any complaint, GRC meeting shall be convened within 15 days. If project level GRC is not able to take decision it may refer the complaint to corporate GRC for solution. GRC endeavors to pronounce its decision within 30-45 days of receiving grievances. In case complainant/ appellant is not satisfied with the decision of project level GRC they can make an appeal to corporate GRC for review. The proposed mechanism does not impede access to the country's judicial or administrative remedies at any stage. Further, grievance redressal is also has in-built tree/ crop compensation in the 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 also provides forum for raising the grievance towards any irregularity/ complaint.

viii. The CPTD is based on the TSECL's ESPPF. Being a transmission project, the relevant national laws applicable for this project are (i) The Electricity Act, 2003 and (ii) The Indian Telegraph Act, 1885 and -. The compensation principles adopted for the project shall comply with applicable laws and regulations of the Government of India, TSECL's ESPPF as well as the World Bank Safeguard Policies.

ix. APs will be entitled for compensation for temporary damages to crops/ trees/ structures etc. as per the Entitlement Matrix (EM) given in E-1. Temporary damage will occur during construction of transmission lines for which compensation will be paid as per eligibility criteria of EM and other applicable norms. All APs are paid compensation for actual damages irrespective of their religion, caste and their economic status including non-title holders. However vulnerable households are provided additional one time lump-sum assistance on recommendation of State/local Authorities. As per policy provision construction contractors shall be encouraged to hire local labor that has the necessary skills.

### E-1: Entitlement Matrix

Sl.	Type of Issue/ Impact	Beneficiary	Entitlement Options
1.	Land area below tower base (#)	Owner	100% land cost at market value as ascertained by revenue authorities or based on negotiated settlement without actual acquisition/ title transfer.
2.	Loss/ damage to crops and trees in line corridor	Owner/ Tenant/ sharecropper/ leaseholder	Compensation to actual cultivator at market rate for crops and 8 years income for fruit bearing trees*. APs will be given advance notice to harvest their crops. All timber* will be allowed to retain by the owner.
3.	Other damages (if applicable)	All APs	Actual cost as assessed by the concerned authority.
4.	Loss of structure		
(i)	House	Titleholders	Cash compensation at replacement cost (without deduction for salvaged material and depreciation value) plus Rs. 25,000/- assistance (based on prevailing GOI norms for weaker section housing) for construction of house plus transition benefits as per category-5 below.
(ii)	Shop/ Institutions/ Cattle shed	Individual/ Titleholders	Cash compensation plus Rs. 10000/- for construction of working shed/shop plus transition benefits as per category-5 below
(iii)	Losses during transition under (i) & (ii) above for Shifting / Transport	Family/ unit	Provision of transport or equivalent cash for shifting of material/ cattle from existing place to alternate place
(iv)	Tribal/ Vulnerable APs	Vulnerable APs <sup>3</sup>	One time additional lump sum assistance not exceeding 25% of total compensation on recommendation of State Authority/ADC/VC.

(#) As decided by State Govt./TSECL only land compensation for tower base shall be paid as per prevailing practice

\* Assistance/ help of Forest department for timber yielding trees and Horticulture department for fruit bearing trees shall be taken for assessing the true value.

<sup>3</sup> Vulnerable APs include scheduled tribes residing in scheduled areas/ physically handicapped/ disabled families etc.

x. Due to inherent flexibility in routing of line, no major damages to structures or physical displacement is envisaged in transmission/distribution line. Hence, there are no adverse impacts such as permanent loss of assets, livelihood loss or physical resettlement/relocation due to project intervention. However, in case it is completely unavoidable, compensation for structures as decided by committee based on government norms and entitlement matrix shall be provided. A notice for damage is issued to APs and the joint measurement by TSECL/ POWERGRID and APs is carried out before start of construction and same is assessed and verified by revenue official during/after construction for estimation of compensation against actual damages. Hence, compensation is paid in parallel with the construction activity of transmission/distribution line. The cost estimate for the project includes eligible compensation for loss of crops, trees and support cost for implementation of CPTD, monitoring, other administrative cost etc. The budget estimation presented in CPTD is tentative and may get revised during the course of implementation. The total indicative cost is estimated to be INR 597.26 Lakhs equivalent to USD 0.919 million.

xi. The implementation and monitoring are critical activities which shall be followed as per Implementation Chart/ Schedule provided in Chapter X. POWERGRID will be the Implementing Agency (IA) for the Project. For the day to day implementation of Project activities, PMC Project Implementation Units (PPIUs) located in each participating State, has been formed including members of Utility on deputation, with its personnel being distributed over work site & working in close association with the State Project Coordination Unit (SPCU)/ Central Project Implementation Unit (CPIU). PPIU report to State level "Project Manager" nominated by the Project In-charge of IA. The IA will have a Core team stationed at the CPIU on permanent basis and other IA officers (with required skills) will visit as and when required by this core team. This team shall represent IA and shall be responsible for all coordination with SPCU, PIU, within IA and MoP, GoI. CPIU shall also assist MoP, GoI in monitoring project progress and in its coordination with The Bank.

xii. Monitoring will be the responsibility of both TSECL & IA. TSECL/ POWERGRID will submit semi-annual monitoring reports on their implementation performance and submit the reports to The World Bank. If required, TSECL/ POWERGRID will engage the services of an independent agency/ external monitor for which necessary provisions have been kept in the budget.

# I. INTRODUCTION AND PROJECT DESCRIPTION

## 1.1. Project Background

1. Recognizing that intrastate T & D systems in North Eastern Region (NER) have remained very weak and that there is a critical need to improve the performance of these networks, the Central Electricity Authority (CEA) developed a comprehensive scheme for the NER in consultation with POWERGRID and the concerned state governments. This scheme is intended to (a) augment the existing T & D infrastructure to improve the reliability of service delivery across all the NER states and (b) build institutional capacity of the power utilities and departments in the NER. This scheme is part of the GoI's wider efforts to develop energy resources in the NER for electricity supply within the region, to strengthen transmission networks, expand and strengthen sub-transmission systems, and extend last mile electricity connectivity to household.

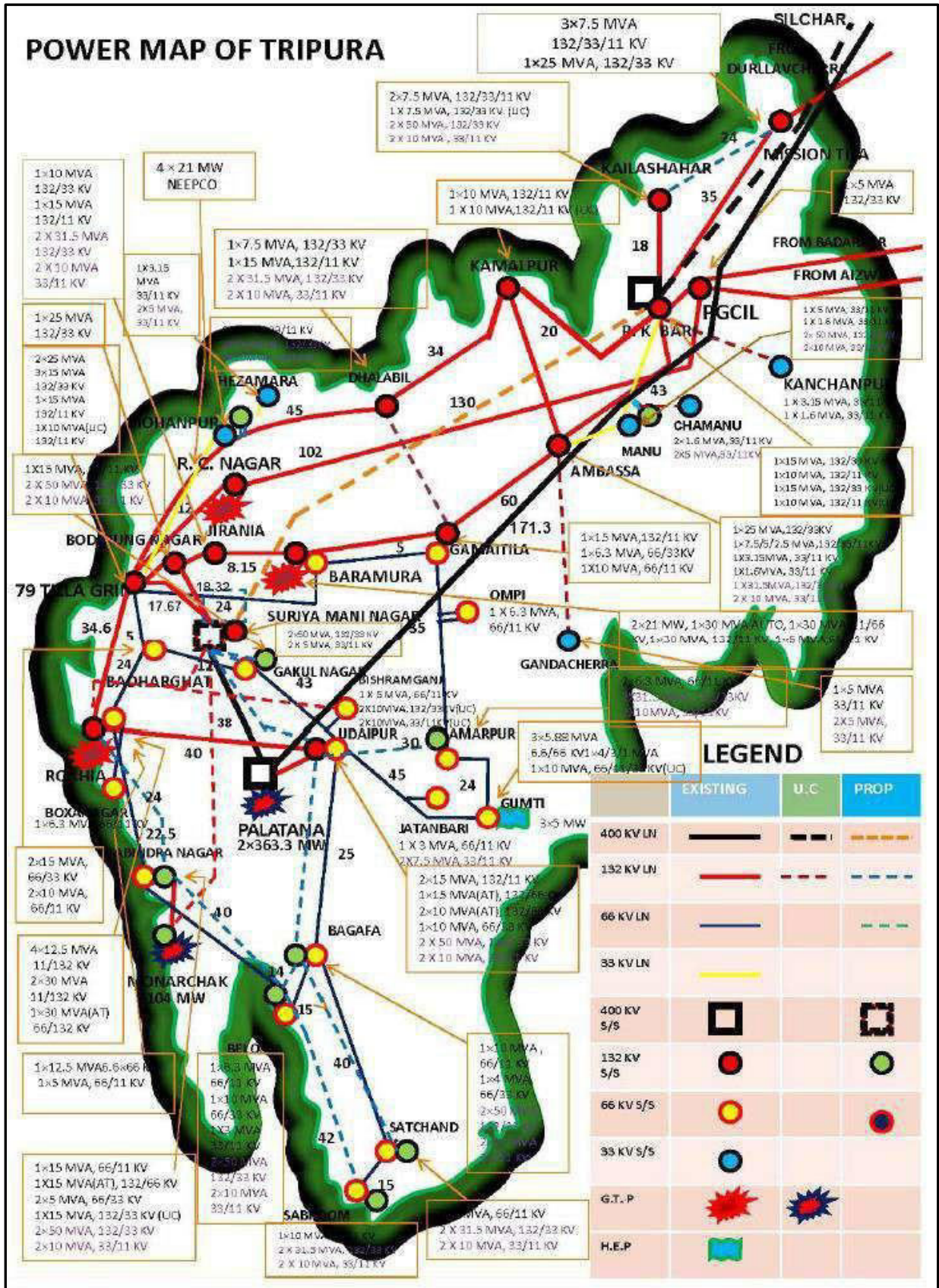
2. GoI requested for World Bank's support in implementing a set of priority investments in six NER states. In 2016, the World Bank (WB) has approved a loan (IBRD 470 USD Million) to the Government of India (GoI) for North Eastern Region Power System Improvement Project (NERPSIP) which aims to create a robust intrastate transmission and distribution network in all the six (6) North Eastern States including Tripura. The project being funded on 50:50 (World Bank loan: GoI) basis except the component of capacity building for Rs.89 crore, which GoI will bear entirely. The scheme is to be taken up under a new Central Sector Plan Scheme of Ministry of Power (MoP).

3. Ministry of Power, GoI has appointed POWERGRID as Implementing Agency (IA) to six North Eastern States for the said project. However, the ownership of the assets shall be with the respective State Utilities/ State Government which upon progressive commissioning shall be handed over to them for taking care of Operation and Maintenance of assets.

4. The project will be implemented over a seven-year period and has two components, namely Component A: Priority Investments for Strengthening Intrastate Transmission, Sub-transmission, and Distribution Systems, and Component B: Technical Assistance for Capacity Building and Institutional Strengthening (CBIS) of Power Utilities and Departments of Participating States.

5. The scope of work under NERPSIP in the state of Tripura includes construction of 261 km of 132 kV transmission lines & associated 16 Nos. (09 Nos. New & 07 Nos. Extension) and 1091 ckm of 33kV distribution lines & associated 61 Nos. distribution substations (34 Nos. New & 27 Nos. Extension/ Augmentation/ Strengthening) spread across the State. The power map of Tripura indicating the existing intra-state transmission network along with proposed project under Tranche-1 of NERPSIP is presented in **Figure-1.1**.

Figure-1.1: Power Map of Tripura along with proposed project



## 1.2. Project Components

6. The project components under the scope of present CPTD include following transmission/ distribution lines and associated substations proposed in Gumti & South Tripura districts of Tripura;

### A. Transmission Scheme Component

#### i) Transmission Lines:

1. Udaipur - Bagafa 132kV D/C line - 31.943 km
2. Bagafa - Belonia 132kV D/C line - 12.745 km
3. Belonia - Sabroom 132kV D/C line - 38.623 km
4. Bagafa - Satchand 132kV D/C line - 29.376 km
5. Udaipur - Amarpur 132kV D/C line - 15.231 km

#### ii) Substations:

1. Establishment of 132/33kV substation at Bagafa
2. Establishment of 132/33kV substation at Belonia
3. Establishment of 132/33kV substation at Sabroom
4. Establishment of 132/33kV substation at Satchand
5. Establishment of 132/33kV substation at Amarpur

### B. Distribution Scheme Component

#### i) Distribution Lines:

1. Amarpur (New) S/s - Dalak (New) S/s 33kV line - 14.332 km
2. Dalak (New) S/s - Jatanbari (Existing) S/s 33kV line - 7.932 km
3. Amarpur (New) S/s - Checua (New) S/s 33kV line - 19.765 km
4. Taidu (New) S/s - Checua (New) S/s 33kV line - 16.215 km
5. Taidu (New) S/s - Teliamura (Existing) S/s 33kV line - 13.401 km
6. Maharani (New) S/s - Garjee (New) S/s 33kV line - 20.104 km
7. Maharani (New) S/s - Udaipur (Existing) S/s 33kV line - 6.017 km
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14. Srinagar (New) S/s - Manughat (New) S/s 33kV line - 16.223 km
15. Srinagar (New) S/s - Satchand (New) S/s 33kV line - 17.664 km
16. Tapping point of Belonia to Hryshumukh line at 33/11kV Srinagar (New) S/s - 15.329 km

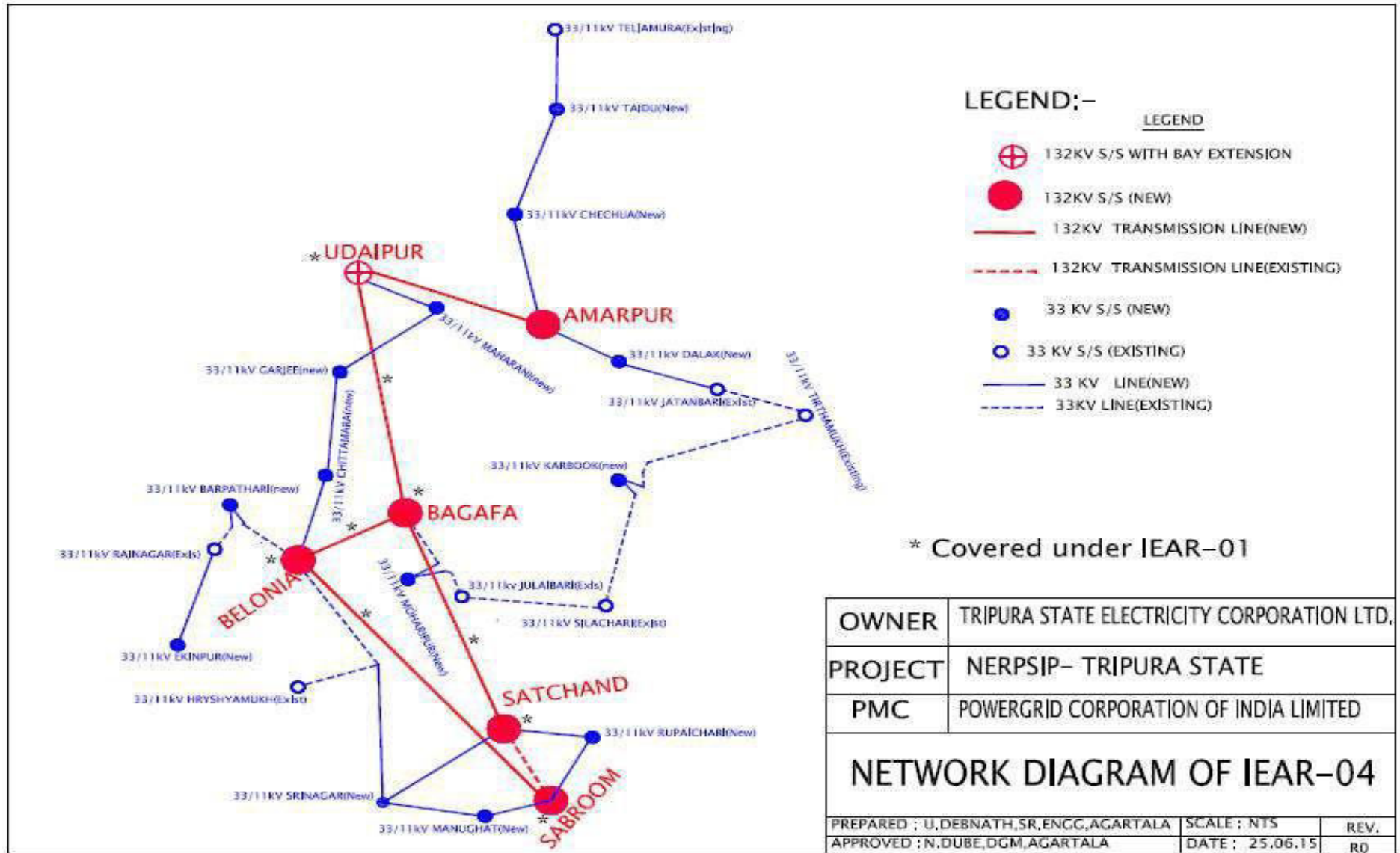
17. Manughat (New) S/s - 132/33kV Sabroom (New) S/s 33kV line - 12.825 km
18. Rupaichari (New) S/s - Sabroom (New) S/s 33kV line - 14.578 km
19. Rupaichari (New) S/s - Satchand (New) S/s 33kV line - 6.913 km

**ii) Substations:**

1. Establishment of 33/11kV substation at Dalak
2. Establishment of 33/11kV substation at Checua
3. Establishment of 33/11kV substation at Taidu
4. Establishment of 33/11kV substation at Maharani
5. Establishment of 33/11kV substation at Garjee
6. Establishment of 33/11kV substation at Karbook
7. Establishment of 33/11kV substation at Chittamara
8. Establishment of 33/11kV substation at Barpathari
9. Establishment of 33/11kV substation at Ekinpur
10. Establishment of 33/11kV substation at Muhuripur
11. Establishment of 33/11kV substation at Srinagar
12. Establishment of 33/11kV substation at Manughat
13. Establishment of 33/11kV substation at Rupaichari

7. The schematic diagram of proposed transmission/ distribution network under Tranche-1 of NERPSIP is shown in **Figure-1.2**.

Figure - 1.2: Proposed Transmission Network in Gumti & South Tripura Districts under NERPSIP





### **1.3. Objective of Compensation Plan for Temporary Damages (CPTD)**

8. The primary objective of the CPTD is to identify impacts/damages and to plan measures to mitigate losses likely to be caused by the projects. The CPTD is based on the general findings of field visits, detailed survey and meetings with various project-affected persons in the project areas. The CPTD report include (i) introduction and project description (ii) socio-economic information and profile (iii) legal & regulatory framework (iv) project impacts,(v) entitlement, assistance and benefit (vi) information disclosure, consultation and participation (vii) institutional arrangements (viii) grievance redress mechanism (ix) budget (x) implementation schedule & (xi) monitoring and reporting.

### **1.4. Scope and Limitation of the CPTD**

9. Based on the assessment of proposed project components and intervention as well as provisions of existing law/regulations, it has been established that no permanent land acquisition is involved and only temporary impacts on land and loss of standing crops/ trees are anticipated. The present CPTD has been prepared based on the detailed survey/ investigation. However, the temporary impacts on land and loss of crops/ trees occurred only during the project implementation/ construction. Therefore, the CPTD remains as draft, as actual temporary impacts on crop/tree including details of Affected Persons (AP) shall be ascertained during check survey and tower spotting once the construction contractor is mobilized for implementation. TSECL/ POWERGRID<sup>4</sup> provide compensation for actual damages after assessment by revenue authority. Check survey is done progressively during the construction of the transmission/distribution line. Normally the work is done in off season when there is no standing crop. The compensation for damage is assessed in actual after construction activities of transmission lines in three stages i.e. after completion of foundation, tower erection and stringing of conductor. The payment of compensation is also paid in three instances, if there are damages during all the above three stages. Assessment of damages at each stage and subsequent payment of compensation is a continuous process. Hence, CPTD updating will also be a continuous process during construction and updated data on APs shall be disclosed through semi-annual E & S monitoring report submitted by TSECL/ POWERGRID.

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<sup>4</sup> For the purpose of CPTD, TSECL and POWERGRID may be referred as SPCU and PPIU respectively. For further details, please refer Chapter - VII institutional arrangements.

## 1.5. Measures to Minimize Impact

10. In keeping with provisions of ESPPF and Bank's Safeguard Policies, TSECL/ POWERGRID has selected and finalized the routes of transmission line with due consideration of avoidance and minimization to the extent possible and same principles shall also be followed during construction stages of project to further restrict the possibility of temporary damages on crops/ trees/ structures etc. in the Right of Way (RoW). Similarly, the route of distribution lines are mostly selected/ finalized along the existing roads (PWD roads/ Village roads etc.) involving minimum habituated areas and also through barren lands wherever possible. Regular field visits and public consultations helped in developing the measures for further minimizing the possible social impacts.

11. For transmission/distribution line there is no permanent land acquisition involved as per applicable legal framework i.e. in exercise of the powers under Indian Telegraph Act-1885. Part 3, section 10 to 16 conferred under Section 164 of the Electricity Act, 2003 through Dept. of Power, Govt. of Tripura vide notification dated 20<sup>th</sup> June 2014, TSECL have the mandate to place and maintain transmission lines under/ over/ along or across and posts in or upon, any immovable property. However, clause 10 (d) of same act stipulates that the user agency shall pay full compensation to all interested for any damages sustained during the execution of said work. Therefore, TSECL/ POWERGRID have developed a procedure which is designed to minimize impacts, during the preliminary survey/ investigation (for screening & scoping of the project with at least 3 alternative route alignments), thereafter during detailed survey (spot)/ design followed by foundation work, tower erection and during the stringing of conductors.

12. All tower foundations and tower footings are dug and laid, including transportation of material and land clearance, generally at the end of a crop season to avoid impacts on cultivations and need for compensation. After construction of transmission towers, farmers are allowed to continue agricultural activity below tower.

13. Because the concrete needs time to dry and settle, all towers are erected normally three weeks after casting of foundation. Thus, both foundation and erection works are generally completed in available gap in between two crop seasons.

14. Given the limited time needed for the stringing, the latter can be done right after the tower construction, before the following crop season.

15. For this reason no household is significantly affected due to the project. Thus, productive loss due to construction is negligible. However, due care shall be taken to avoid damages to crop/ trees by taking up the construction activities during lean period or post-harvest season. As per the

prevailing norms farming activity shall be allowed after the construction work is completed. All affected farmers will be compensated for all sorts of damages during construction as per the laid down procedure.

### **1.6. Route Selection and Study of Alternatives**

16. For selection of optimum route, the following points are taken into consideration:

- (i) The route of the proposed transmission/ distribution lines does not involve any human displacement/ rehabilitation.
- (ii) Any monument of cultural or historical importance is not affected by the route of the transmission/ distribution line.
- (iii) The proposed line route does not create any threat to the survival of any community with special reference to Tribal Community.
- (iv) The proposed line route does not affect any public utility services like playgrounds, schools, other establishments etc.
- (v) The line route does not pass through any National Parks, Sanctuaries etc.
- (vi) The line route does not infringe with area of natural resources.

17. In order to achieve this, TSECL/ POWERGRID undertake route selection for individual line in close consultation with representatives of concerned Forest Department and the Department of Revenue. Although under the law, TSECL has the right of eminent domain yet alternative alignments are considered, keeping in mind, the above-mentioned factors during site selection, with minor alterations often added to avoid environmentally sensitive areas and settlements at execution stage.

- a. As a rule, alignments are generally cited away from major towns, whenever possible, to account for future urban expansion.
- b. Similarly, forests are avoided to the extent possible, and when it is not possible, a route is selected in consultation with the local Divisional Forest Officer, that causes minimum damage to existing forest resources.
- c. Alignments are selected to avoid wetlands and unstable areas for both financial and environmental reasons.

18. In addition, care is also taken to avoid National Parks and Wildlife Sanctuaries and any other forest area rich in wildlife. Keeping above in mind the route of proposed lines have been so aligned that it takes care of above factors. As such different alternatives were studied with the help of Govt. published data like Forest atlas, Survey of India topo maps, satellite imageries etc. to arrive at most optimum sections of the route which can be taken up for detailed survey and assessment of environmental & social impacts for their proper management.

19. The comparative details of three alternatives in respect of proposed lines are presented in **Annexure-1**.

## II. SOCIOECONOMIC INFORMATION AND PROFILE

### 2.1. General

20. The socio-economic profile of the project area is based on general information collected from various secondary sources. As the assets of any sorts will not be acquired but for temporary damage to crops/ trees or any other structures adequate compensation as per norms shall be paid to all APs. This chapter provides broad socio-economic profile in terms of demography, literacy, employment and other infrastructure etc. in the State of Tripura and project districts in particular i.e. Gumti & South Tripura through which the various lines will traverse. It may be noted that Gumti district was carved out from South Tripura district in January 2012 and due to non-availability of socio-economic information of this district separately, data of undivided South Tripura district has been provided. Following section briefly discuss socio-economic profile of the State and project area district in particular.

### 2.2. Socio-Economic Profile

#### 2.2.1. Land Use

21. Tripura, is situated in the north eastern part of the country and shares international border with Bangladesh from three sides The area of the State is 10,491 sq. km which forms 0.32% of country's geographical area. The State lies between latitude 22°57' N and 24°33' N and longitude 91°10' E and 92°20' E in North Eastern Region physiographic zone. The general land use pattern of the State is given in **Table-2.1**.

**Table-2.1: Land Use Pattern**

Land Use	Area in '000 ha	Percentage
Total geographical area	1,049	
Reporting area for land utilization	1,049	100.00
Forests	629	59.96
Not available for cultivation	141	13.44
Permanent pastures and other grazing lands	02	0.19
Land under misc. tree crops & groves	14	1.33
Cultivable wasteland	04	0.38
Fallow lands other than current fallows	02	0.19
Current Fallows	02	0.19
Net area sown	256	24.40

*Source: Land use statistics, Ministry of Agriculture, GOI, 2011-12*

22. Gumti district was created from South Tripura district in January 2012. Erstwhile South Tripura district (including the area of newly created Gumti district) lies between latitude 22°56' & 23°45' N and longitude 91°18' E & 91°59' E. Total Geographical area of the district is 1514.3 sq.

km. The district is bounded by Dhalai & West Tripura districts in North and by international border with Bangladesh on the other sides.

### **2.2.2. Climate**

23. The State has a tropical savanna type climate, designated under the Koppen climate classification. The undulating topography leads to local variations, particularly in the hill ranges. The four main seasons are winter from December to February, pre-monsoon or summer from March to April, monsoon from May to September and post-monsoon from October to November. During the monsoon season the south west monsoon brings heavy rains, which cause frequent floods.

24. The climate of South Tripura district is mostly warm and is characterized by a humid summer and a dry cool winter.

25. The annual rainfall of the State varies between 2,250 mm to 2,500 mm. Average annual rainfall in South Tripura districts is about 2000 mm.

### **2.2.3. Water Resources**

26. The State of Tripura has rich water resources with the presence of as many as ten major rivers, including Gumti, Manu-Deo and Khowai. All rivers are rain-fed and ephemeral in nature. All major rivers originate from hill ranges and show a typical drainage pattern called trellis, except a few instances of dendrite pattern. A study of basin characteristics by CSME (1989) indicate that eight of the ten basins are within the territorial limit of Tripura while basin areas of river Fenni and Langai are shared by two Indian States viz. Tripura and Mizoram and Bangladesh. Collectively basin area of ten major rivers and other minor streams covers nearly 10,500 sq. km. In terms of percentage of the basin of individual rivers vis-a-vis, total basin Gumti (22.66%), is followed by Manu-Deo (18.36%) and Khowai.

27. The main rivers flowing through South Tripura district are Gumti, Muhuri and Feni. The river Feni forms natural boundary between the South Tripura district and Bangladesh.

### **2.2.4. Soil**

28. The soil in Tripura can be classified into five distinct categories i.e.1) Red loamy soil and sandy soil (cover 43.07 % of the total land area of the State) 2) Reddish yellow brown sandy soil (cover 33.06 % of the land area of the State). The three other types of soil that prevail in the region are the 3) Lateritic soil 4) Younger Alluvial soil 5) Older alluvial soil. The factors influencing the prevalence of different types of soil in Tripura include topographical changes, climate changes,

prevalent rock materials and the vegetation. Soil erosion caused by chemical weathering of the soil in the State of Tripura has led to the bed rock of the region being revealed.

### **2.2.5. Ecological Resources**

29. The total forest area is 6292.618 km<sup>2</sup> in the whole state. Reserved forest is 3588.183 km<sup>2</sup>, unclassified Government forest is 2195.473 km<sup>2</sup>, while proposed reserved forest is 509.025 km<sup>2</sup>. The forests in the state are mainly tropical evergreen, semi evergreen, and moist deciduous. Sizeable area is covered with bamboo brakes which virtually form a “Sub climax” resulting from shifting cultivation from time immemorial. Bamboo plays a very vital role in the economy of the State as it serves the artisan & non artisan users of the state. The South Tripura district is rich in forest resources with forest cover of 80.93% of total geographical area. The state has two National Parks and four Wildlife Sanctuaries covering an area of 603.64 sq.km constituting 5.75% of the total geographical area of the State. The proposed transmission lines are not passing through any protected area like national parks, sanctuaries, and biosphere reserves etc, as all such areas have been completely avoided through careful route selection.

### **2.2.6. Crops**

30. Tripura is an agrarian State with more than half of the population dependent on agriculture and allied activities. However, due to hilly terrain and forest cover, only 27% of the land is available for cultivation. Rice, the major crop of the state, is cultivated in 91% of the cropped area. According to the Directorate of Economics & Statistics, Government of Tripura, in 2014-15, potato, sugarcane, pulses and jute were the other major crops cultivated in the State. Jackfruit and pineapple top the list of horticultural products. Traditionally, most of the indigenous population practiced jhum method (a type of slash-and-burn) of cultivation. The number of people dependent on jhum has declined over the years.

### **2.2.7. Human and Economic Development**

31. Tripura being a farming state, paddy is the major crop cultivated in 91% of total crop area across the State. Potato, sugarcane, pulses and jute also contribute significantly to the State agriculture. Pisciculture has made significant advances in the State. Tripura ranks second only to Kerala in the production of natural rubber in the country. The State is known for its handicraft, particularly hand-woven cotton fabric, wood carvings, and bamboo products. High quality timber including sal, garjan, teak and gamar are found abundantly in the forests of Tripura. The industrial sector of the State continues to be highly underdeveloped - brickfields and tea industry are the only two organised sectors. Tripura has considerable reservoirs of natural gas. According to

estimates by Oil and Natural Gas Corporation (ONGC), the State has 400 billion cum reserves of natural gas, with 16 billion cum is recoverable. ONGC produced 480 million cum natural gas in the State, in 2006-07. In 2011 and 2013, new large discoveries of natural gas were announced by ONGC.

32. The economy of Tripura can be characterized by rate of poverty, low capital formation inadequate infrastructure facilities, Geographical isolation and communication bottleneck, inadequate exploration and use of forest and mineral resources, slow industrialization and high unemployment. More than 50% of the population depends on agriculture for sustaining their livelihood. However, share of agriculture and allied activities in Gross State Domestic Production (GSDP) is only 23% primarily due to low capital base in the sector.

33. Around 72% rural population of the South Tripura district is Below Poverty Line (BPL), which indicates the weak economic base of the district. Presence of only two Industrial Areas located at Belonia and Sabroom. There are about 132 nos. of reported registered factories in the district employing around 2250 workers. There are 5 nos. of Handloom units and around 18750 nos. of handloom weavers in the district. It has been informed that lack of reliable and uninterrupted power is considered to be major hurdle in the industrial development of the area.

34. Agriculture is the main source of livelihood of the South Tripura district, with 41,840 Ha of agricultural land under cultivation. Paddy is the main food crop. Potato, sugarcane, jute and mustard are also grown. Fisheries and Animal Husbandry are other prominent sources of employment; current fish productivity of the district is 2281 kg/Ha/year.

## 2.2.8. Demography Features

### 2.2.8.1. Total Population

35. Total population in Tripura stands at 36,73,917 of which 27,12,464 (73.83%) population belong to rural area and 9,61,453 (26.17%) population belong to urban area. The South Tripura district has a total of 8,76,001 population of which 85.96% resides in rural areas and 14.04% belongs to urban areas. Details are given in **Table-2.2**.

**Table-2.2: Details on Total Population**

Name	Total Population	Total (Rural)	Total (Urban)	Percentage (Rural)	Percentage (Urban)
Tripura	36,73,917	27,12,464	9,61,453	73.83	26.17
South Tripura*	8,76,001	7,52,970	1,23,031	85.96	14.04

Source: Census of India, 2011

*\*Since Gumti district was carved out from South Tripura district in 2012, the census data of this district was merged with South Tripura district as per the 2011 census. Therefore the demographic data given here for South Tripura district as per 2011 census would be considered as the combined demographic data of the two districts viz. South Tripura and Gumti.*

### 2.2.8.2. Male and Female Population

36. Out of total population 36,73,917 of the State, male population constitutes 18,74,376 (51.02%) and female population is 17,99,541 (48.98%). Total population in South Tripura district stands at 8,76,001 of which male population stands at 4,47,544 (51.67%) and female population stands at 4,28,457 (48.33%) with sex ratio 957 which is slightly lower than State's average of 960. Details are given in **Table-2.3**.

**Table 2.3: Details on Male/ Female Population**

Name /Particulars	Total Population	Total Male	Total Female	Percentage (Male)	Percentage (Female)	Sex Ratio
Tripura	36,73,917	18,74,376	17,99,541	51.02	48.98	960
South Tripura	8,76,001	4,47,544	4,28,457	51.67	48.33	957

*Source: Census of India, 2011*

### 2.2.8.3. Scheduled Caste (SC) and Scheduled Tribe (ST) Population

37. As per census 2011, the Scheduled Caste (SC) & Scheduled Tribe (ST) population of the State stands at 6,54,918 (17.83%) and 11,66,813 (31.76%), respectively. The South Tripura district has a total SC population of 8,76,001 (16.00%) and ST population of 3,44,835 (39.36%). Details are given in **Table-2.4**.

**Table-2.4: Details on Percentage SC/ ST**

Name/ Particulars	Total Population	Total SC Population	Percentage of SC Population	Total ST Population	Percentage of ST Population
Tripura	36,73,917	6,54,918	17.83	11,66,813	31.76
South Tripura	8,76,001	1,40,168	16.00	3,44,835	39.36

*Source: Census of India, 2011*

### 2.2.8.4. Literacy

38. The literacy rate of South Tripura district stands at 73.84% which is slightly less than State's average (76.34%). However, the female literacy rate of South Tripura district is 45.72%. Details are given in **Table-2.5**.

**Table-2.5: Literate and Illiterate Population**

Name/Particulars	Total Population	Total Literate	Percentage of Literate	Percentage (Male)	Percentage (Female)
Tripura	36,73,917	28,04,783	76.34	53.53	46.77
South Tripura	8,76,001	6,46,810	73.84	54.28	45.72

*Source: Census of India, 2011*

### 2.3.8.5. Total Workers (Male and Female)

39. Total population into work in Tripura stands at 14,69,521 of which total Male (work)



population stands at 10,45,326 (71.13%) and total female (Work) population stands at 4,24,195 (28.87%). The South Tripura district has a total work population of 3,66,845 of which total Male (work) population stands at 2,53,229 (69.03%) and total female (Work) population stands at 1,13,616 (30.97%). Details are given in **Table-2.6**.

**Table-2.6: Details on Workers**

Name/ Particulars	Total Population (Work)	Total Male (Work)	Total Female (Work)	Percentage (Male)	Percentage (Female)
Tripura	14,69,521	10,45,326	4,24,195	71.13	28.87
South Tripura	3,66,845	2,53,229	1,13,616	69.03	30.97

*Source: Census of India, 2011*

### 2.3.8.6. Households

40. Total Households in Tripura stands at 8,55,556 of which 6,16,582 (72.06%) households belong to rural area and 2,38,974 (27.94%) households belong to urban area. South Tripura district has a total of 2,08,127 households of which 1,76,230 (84.67%) households belong to rural area and 31,897 (15.33%) households belong to urban area. Details are given in **Table-2.7**.

**Table-2.7: Details on Households**

Name/ Particulars	Total Households	Total (Rural)	Total (Urban)	Percentage (Rural)	Percentage (Urban)
Tripura	8,55,556	6,16,582	2,38,974	72.06	27.94
South Tripura	2,08,127	1,76,230	31,897	84.67	15.33

*Source: Census of India, 2011*

### III. LEGAL & REGULATORY FRAMEWORK

#### 3.1. Overview

41. In India, compensation for land acquisition (LA) and rehabilitation/resettlement of project affected persons/ families is governed by the National law i.e. “The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 (hereafter RFCTLARR, 2013)”, effective from 1st January 2014. Since in case of transmission line project, land for tower / pole and right of way is not acquired and ownership of land remains with the owner this act is not applicable. However, as per existing laws<sup>6</sup> compensation for all damages is paid to the individual land owner. The relevant national laws applicable for transmission project are (i) The Electricity Act, 2003 and (ii) The Indian Telegraph Act, 1885. The compensation principles adopted in the Entitlement Matrix for this project comply with applicable laws /regulations of the GOI/ State Govt., World Bank’s Safeguard Policies and TSECL’s ESPPF.

#### 3.2. Statutory Requirements

42. Transmission lines are constructed under the ambit of The Electricity Act, 2003. The provisions stipulated in section 67-68 of the Electricity Act, 2003 read with section 10 & 16 of the Indian Telegraph Act, 1885 governs the compensation as TSECL has been vested with the powers of Telegraph Authority vide Dept. of Power, Govt. of Tripura notification dated 20<sup>th</sup> June 2014, under Section - 164 of the Electricity Act. As per the provision of Indian Telegraph Act, 1885 under section 10 (b), TSECL is not authorized to acquire any land hence land under tower is not acquired. However, compensation for all damages is paid to the individual land owner as per the provision of Section-10 (d) of Indian Telegraph Act, 1885.

43. The provisions in the Electricity Act, 2003 and Indian Telegraph Act, 1885 regarding compensation for laying of transmission lines are as follows:

##### 3.2.1. The Electricity Act, 2003, Part-VIII, Section 67 & 68

**Quote:**

**Section 67 (3-5):**

*(3) A licensee shall, in exercise of any of the powers conferred by or under this section and the rules made there under, cause as little damage, detriment and inconvenience as may be, and*

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<sup>6</sup> 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

*shall make full compensation for any damage, detriment or inconvenience caused by him or by any one employed by him.*

- (4) Where any difference or dispute [including amount of compensation under sub-section (3)] arises under this section, the matter shall be determined by the Appropriate Commission.*
- (5) The Appropriate Commission, while determining any difference or dispute arising under this section in addition to any compensation under sub-section (3), may impose a penalty not exceeding the amount of compensation payable under that sub-section.*

**Section 68 (5 & 6):**

- (5) Where any **tree standing or lying near an overhead line or where any structure or other object which has been placed or has fallen near an overhead line** subsequent to the placing of such line, interrupts or interferes with, or is likely to interrupt or interfere with, the conveyance or transmission of electricity or to interrupt or interfere with, the conveyance or transmission of electricity or the accessibility of any works, an Executive Magistrate or authority specified by the Appropriate Government may, on the application of the licensee, cause the tree, structure or object to be removed or otherwise dealt with as he or it thinks fit.*
- (6) When disposing of an application under sub-section (5), an Executive Magistrate or authority specified under that sub-section shall, in the case of any tree in existence before the placing of the overhead line, **award to the person interested in the tree such compensation as he thinks reasonable, and such person may recover the same from the licensee.***

*Explanation - For purposes of this section, the expression “tree” shall be deemed to include any shrub, hedge, jungle growth or other plant.*

**Unquote**

**3.2.2. The Indian Telegraph Act, 1885, Part-III, Section 10:**

**Quote:**

**Section 10** – *The telegraph authority may, from time to time, place and maintain a telegraph line under, over, along, or across, and posts in or upon any immovable property, Provided that*

- (a) the telegraph authority shall not exercise the powers conferred by this section except for the purposes of a telegraph established or maintained by the [Central Government], or to be so established or maintained;*
- (b) **the [Central Government] shall not acquire any right other than that of user only in the property under, over, along, across in or upon which the telegraph authority places any telegraph line or post; and***

- (c) *except as hereinafter provided, the telegraph authority shall not exercise those powers in respect of any property vested in or under the control or management of any local authority, without the permission of that authority; and*
- (d) *in the exercise of the powers conferred by this section, the telegraph **authority shall do as little damage as possible, and, when it has exercised those powers in respect of any property other than that referred to in clause (c), shall pay full compensation to all persons interested for any damage sustained by them by reason of the exercise of those powers.***

#### **Unquote**

**Section 16 of the Indian Telegraph Act, 1885 which stipulates as under:**

***16. Exercise of powers conferred by section 10, and disputes as to compensation, in case of property other than that of a local authority:***

- (1) *If the exercise of the powers mentioned in Section 10 in respect of property referred to in clause (d) of that section is resisted or obstructed, the District Magistrate may, in his discretion, order that the telegraph authority shall be permitted to exercise them.*
- (2) *If, after the making of an order under sub section (1), any person resists the exercise of those powers, or, having control over the property, does not give all facilities for this being exercised, he shall be deemed to have committed an offence under section 188 of the Indian Penal Code (45 of 1860).*

#### **3.3. TSECL's ESPPF**

44. To address the environmental and social issues related to its power transmission and distribution projects under NERPSIP, TSECL has adopted an Environmental and Social Policy & Procedures Framework (ESPPF) in 2015 based on the principles of *avoidance, minimization, and mitigation*. The ESPPF had been developed by POWERGRID on behalf of the State Utility based on ESPP of POWERGRID, who has proven credentials in management of environmental and social issues of large number of power transmission projects both within and outside the country after a comprehensive review of Utility's existing policies/provisions and consultation with stakeholders.

45. ESPPF's outlines Utility's approach and commitment in dealing with the environmental and social issues relating to its transmission projects, lays down the management procedures and protocols for the purpose that includes the framework for identification, assessment, and management of environmental and social concerns at both organizational and project levels.

46. ESPPF's provides compensation to affected persons in respect of temporary damages like crop/tree/structure etc during construction of transmission line as per the eligibility criteria stipulated in Entitlement Matrix (EM) (**Table-5.1**). Accordingly, compensation is paid to eligible APs for actual damages including non-title holders such as squatter, encroacher etc. As regard land compensation for transmission line, as per prevailing practice only compensation @100% of land cost for tower base shall be paid to affected land owner.

47. Specifically on social, the following criteria and approach are considered in the ESPPF;

- (i) Take due precautions to minimize disturbance to human habitations, tribal areas and places of cultural significance.
- (ii) Take due care of Project Affected Persons (PAP).
- (iii) Involve affected people from inception stage to operation and maintenance.
- (iv) Consult affected people in issues of RoW, land acquisition or loss of livelihood.
- (v) Encourage consultation with communities in identifying environmental and social implications of the project.
- (vi) Guarantee entitlements and compensation to affected people as per entitlement matrix.
- (vii) Share information with local communities about environmental and social implications.
- (viii) Always maintain highest standards of health and safety and adequately compensate affected persons in case of any eventuality.

### **3.4. Basic Principles for the Project**

48. The basic principles adopted for the Project are;

- (i) Avoid negative impacts of land acquisition and involuntary resettlement on persons affected by the Project to the extent possible.
- (ii) Where negative impacts cannot be avoided, assist affected persons (AP), in improving or at least regaining their standard of living and income.
- (iii) Carry out meaningful consultations with affected persons and inform all displaced persons of their entitlements and resettlement options. Ensure their participation in planning, implementation and monitoring of the Project
- (iv) Disclose all information related to, and ensure AP participation in resettlement planning and implementation.
- (v) Provide compensation for acquired assets at replacement/market value in accordance with the RP/ CPTD.
- (vi) Ensure that displaced persons without titles to land or any recognizable legal rights to land are eligible for resettlement assistance and compensation for loss of non-land assets.

- (vii) Provide resettlement assistance and income restoration to APs.
- (viii) Provide for APs not present during enumeration. However, anyone moving into the project area after will not be entitled to assistance.
- (ix) Develop procedures in a transparent, consistent, and equitable manner if land acquisition is through negotiated settlement to ensure that those people who enter into negotiated settlements will maintain the same or better income and livelihood status.
- (x) Provide compensation and resettlement assistance prior to taking possession of the acquired lands and properties.
- (xi) Establish grievance redress mechanisms to ensure speedy resolution of disputes.
- (xii) Ensure adequate budgetary support to cover implementation costs for CPTD.
- (xiii) Monitoring of the implementation of CPTD.

49. Additionally, the issues related to the Right of Way (RoW) for the transmission/ distribution lines will be dealt with proper care especially for the temporary loss. For the loss of crops and trees and land cost for tower base area due compensation will be paid either by cheque/ through online transfer during construction works. Similarly, compensation (by cheque/ online transfer) to the APs for any temporary loss of crop and trees, if occurred, during the time of major maintenance and repair shall also be disbursed.

### **3.5. World Bank's Environmental & Social Safeguard Policies**

50. The objective of Bank's policies is to prevent and mitigate undue harm to people and their environment in the development process. Safeguard policies provide a platform for the participation of stakeholders in project design, and act as an important instrument for building ownership among local populations. Operational Policies (OP) are the statement of policy objectives and operational principles including the roles and obligations of the Borrower and the Bank, whereas Bank Procedures (BP) is the mandatory procedures to be followed by the Borrower and the Bank. Apart from these, World Bank Group Environmental, Health, and Safety (EHS) General Guidelines and EHS Guidelines for Electric Power Transmission and Distribution are also relevant for environmental protection and monitoring of transmission projects. The WB's relevant social safeguard policies and their objective are given in **Table-3.1**.

**Table-3.1: World Bank’s Operational Policies for Social Safeguard**

<b>Operational Policy (OP)</b>	<b>Policy Objectives</b>
OP 4.11 - Physical Cultural Resources (PCR)	To preserve PCR and in avoiding their destruction or damage. PCR includes resources of archeological, paleontological, historical, architectural, and religious (including graveyards and burial sites), aesthetic, or other cultural significance.
OP 4.12 - Involuntary Resettlement	To avoid or minimize involuntary resettlement and, where this is not feasible, assist displaced persons in improving or at least restoring their livelihoods and standards of living in real terms relative to pre-displacement levels or to levels prevailing prior to the beginning of project implementation, whichever is higher.
OP 4.10 - Indigenous Peoples	To ensure that the Indigenous Peoples receive social and economic benefits those are culturally appropriate and gender and inter generationally inclusive. The project shall ascertain broad community support for the project based on social assessment and free prior and informed consultation with the affected Tribal community, if any.

## IV. PROJECT IMPACTS

### 4.1. General

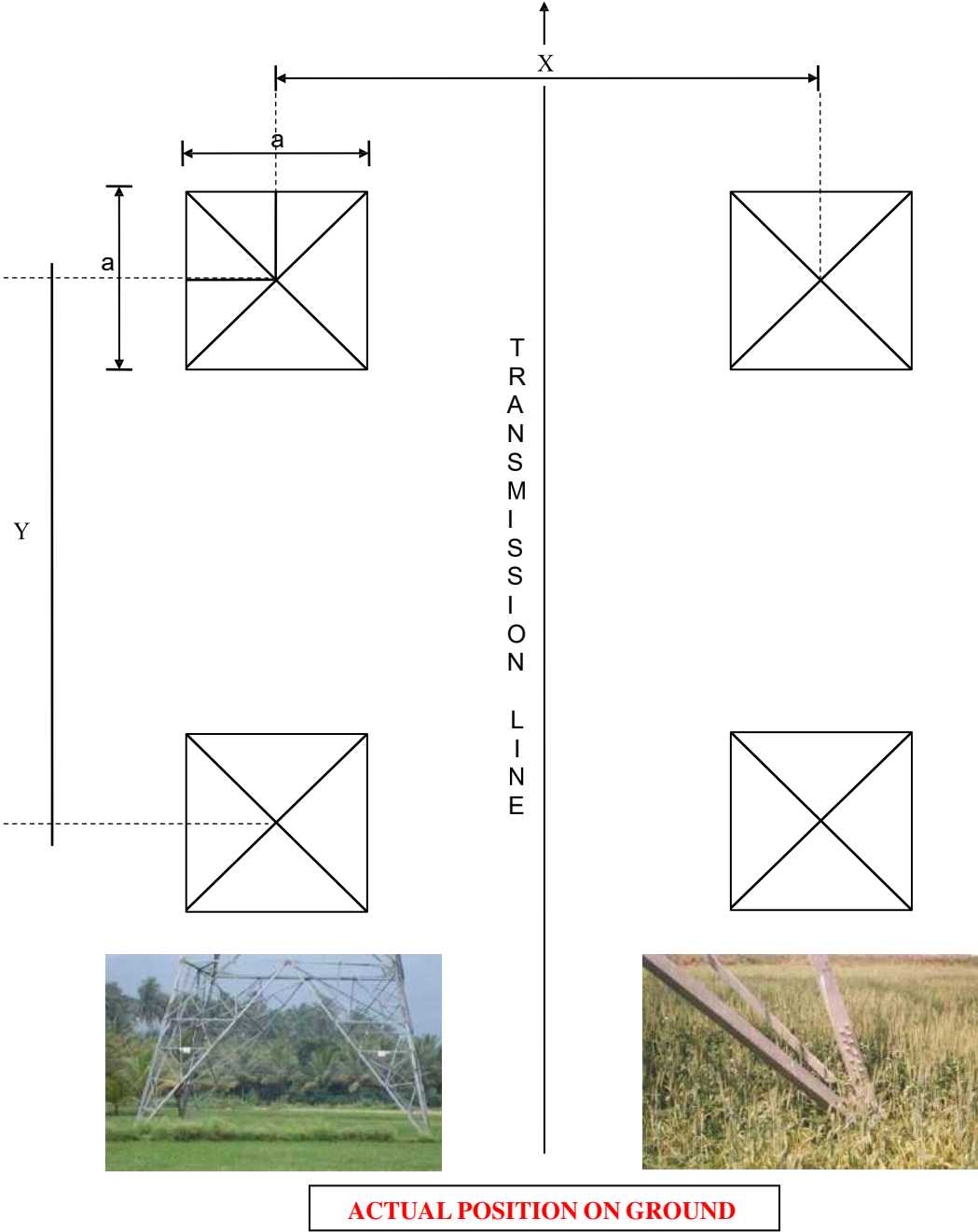
51. The project does not require any private land acquisition for construction of transmission/distribution lines. Due to inherent flexibility in routing of line, no major damages to structures or physical displacement is envisaged. Hence, there are no adverse impacts such as permanent loss of assets, livelihood loss or physical resettlement/relocation due to project intervention. However, there are some social impacts due to construction of lines/ placing of towers & poles which are temporary in nature in terms of loss of standing crops/ trees/ structures in the RoW. Preliminary investigation/ survey has been carried out for transmission/distribution line to estimate/ arrive at the selection of one best feasible alignment route out of at least 3 alternative alignments studied, for detailed survey to be undertaken during execution of main contracts. The details of tower schedule depicting location & its coordinate including major crossings in proposed route alignments is placed as **Annexure-2**. The compensation for damage is assessed in actual after construction activities of transmission lines in three stages i.e. after completion of foundation, tower erection and stringing of conductor. The payment of compensation is also paid in three instances, if there are damages during all the above three stages. Assessment of damages at each stage and subsequent payment of compensation is a continuous process. Hence, CPTD updating will also be a continuous process during construction. The details of land use have been gathered to have an idea about the temporary damages that might occur during construction of lines. The RoW width is 27 and 15 meter for 132kV trans. line & 33 kV distribution line respectively.

52. Soil & Surface Geology: In plain areas impact on soil & geology will be almost negligible as the excavated pit material is stacked properly and back filled as well as used for resurfacing the area. On hill slopes where soil is disturbed will be prone to erosion is suitably protected by revetment, breast walls, and proper drainage. Besides extensive leg/ chimney extension shall be used to avoid benching or cutting of slopes to minimize the impact on slope stability.

53. The land requirement for erection of tower legs is very small i.e. for each leg of tower actual construction is done on a small square area with side length ranging from 0.20 to 0.30 meter depending on the types of tower. Four such square pieces of land will be required to place the legs of tower. The area that becomes unavailable because of the erection of tower legs for an average 132 kV D/C transmission tower ranges from 0.16-0.36 sq. m. of land. Thus, the actual impact is restricted to 4 legs of the tower and agriculture can continue as clearly depicted in the Figure-4.1. In case of 33kV distribution line area affected by pole is quite negligible/ insignificant that. (1 sq. ft. approx) (refer **Figure-4.2** depicting actual base area impact). Due diligence confirms



Figure-4.1: Typical Plan of Transmission Line Tower Footing

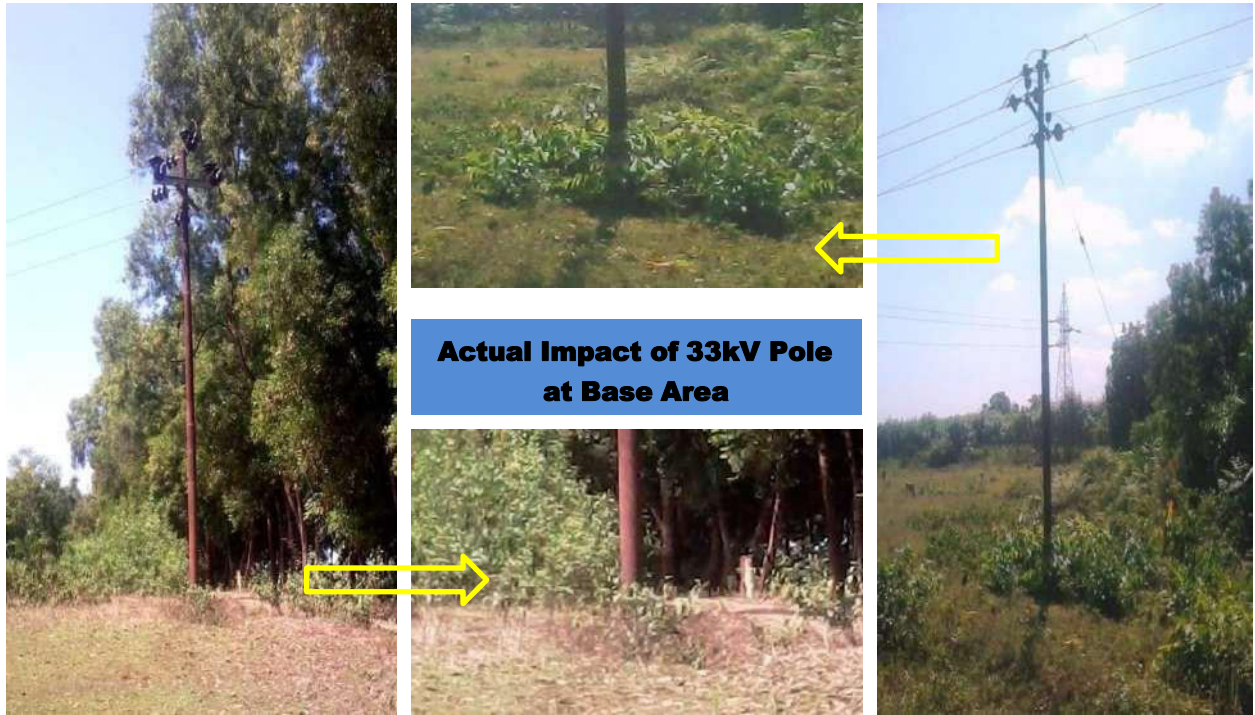


**INDICATIVE MEASURES**

X & Y = 5-10 METERS

a = 200- 300 mm

**Figure-4.2: 33kV lines (Single & H pole) depicting base area impact**



**33kV line inside city area of Assam**



**33kV (H Pole) line inside substation**

that land is either agricultural or barren, and current land use is not altered and resumed after construction. As per present practices, full compensation (100%) towards land value in tower base areas as decided by the district authority is paid towards damages to the affected persons/land owners in addition to normal crop and tree damages. Since Govt. of Tripura has not approved the adoption of said guidelines no payment will be paid for land compensation for RoW corridor.

54. Crops: Construction of line in crop season is avoided as far as possible. During installation of towers/poles, if there any impacts on agricultural activity, detailed assessment/ survey is conducted looking at existing crops, general crop patterns, seasonal particulars, nature and extent of yield. This data is compiled and analysed to study the extent and nature of impact. The compensation is in terms of yield/ hectare and rate/ quantity for prevailing crops in the area. Based on this, total compensation is calculated in consultation with revenue authorities. Compensation is paid to the owners and their acknowledgement obtained.

55. Trees: Construction of line in fruit bearing season is avoided as far as possible including measures by increasing the height of tower to cross such orchard without affecting the trees. Tree compensation is calculated on the basis of tree enumeration, tree species and an estimate of the compensation will be calculated on the basis of 8 years yield (assessed by revenue/ horticulture department). Market rates of compensation are assessed by the relevant government authorities. The total estimate is submitted for approval of the competent authority. Payments are made to owners in the presence of local revenue authorities or village head/ Sarpanch and respective acknowledgements are obtained.

56. Other Damages: Any other damages such as bund, water bodies, fish pond, approach path, drainage and irrigation canal etc. are at best avoided. However, if damaged the revenue department assess the cost of damage as per State Govt. norms. The total estimate is submitted for approval to the competent authority. Payments are made to owners in the presence of local revenue authorities or village head/ Sarpanch and respective acknowledgements are obtained and POWERGRID/ TSECL pay the compensation. Hindrances to power, telecom carrier & communication lines etc. are paid as per Govt. norms.

#### **4.2. Impact due to construction of New Substation and Bay extension**

57. The project component consists of establishment of 4 no. of new 132/33kV substations at Bagafa, Belonia, Sabroom and Satchand located in Gumti & South Tripura districts of Tripura. Land for all new substations are already in possession with TSECL. Since no fresh land acquisition is involved, R&R will not be an issue in the instant project. The details are provided in **Table-4.1**.

**Table-4.1: Details of Substation**

Name of substation	Permanent Impact on Land Use	Temporary Impact on loss of crops	Impact on Loss of Trees	Details of Land			
				Land Area (acre)	No. of Land owner	Compensation (Rs. Million)	Land Type/ Securing method
132/33kV Bagafa	No	Nil	Nil	3.7	NA	NA	TSECL Land
132/33kV Belonia	No	Nil	Nil	3.0	NA	NA	
132/33kV Sabroom	No	Nil	2	1.64	NA	NA	
132/33kV Satchand	No	Nil	Nil	2.02	NA	NA	
132/33kV Amarapur	Yes	Nil	Nil	3.34	1	5.936	Private land purchase on negotiated rate based on "Willing Buyer Willing Seller" basis.
33/11kV Manughat	Yes	Nil	Nil	0.80	1	0.657	
33/11kV Taidu	No	Nil	Nil	0.73	1	NA	Land willingly donated by owner.
33/11kV Dalak	No	Nil	Nil	1.38	NA	NA	TSECL Land
33/11kV Checua	No	Nil	Nil	0.41	NA	NA	
33/11kV Maharani	No	Nil	Nil	0.89	NA	NA	
33/11kV Garjee	No	Nil	Nil	0.79	NA	NA	
33/11kV Karbook	No	Nil	Nil	0.59	NA	NA	
33/11kV Chittamara	No	Nil	Nil	0.62	NA	NA	
33/11kV Barpathari	No	Nil	Nil	0.74	NA	NA	
33/11kV Ekinpur	No	Nil	Nil	1.03	NA	NA	
33/11kV Muhuripur	No	Nil	1	0.99	NA	NA	
33/11kV Srinagar	No	Nil	Nil	1.46	NA	NA	
33/11kV Rupaichari	No	Nil	Nil	0.62	NA	NA	

### 4.3. Temporary Impacts Caused due to Transmission/Distribution Line (Right of Way)

#### 4.3.1. Type and Use of Land within Corridor Right of Way

58. The lines corridor will pass through mixed land uses which are generally agricultural land, private plantation, forest land, govt. land etc. The calculations are based on detailed survey/ investigation carried out along the route of T & D lines and considering the total line length of the line and its right of way. The total line length of transmission line is 127.918 km which will impact an estimated of 853.419 acres<sup>7</sup> of land. These include 48.253 km of line passing through agricultural land (321.922 acres of agricultural land), 29.101 km of private plantation (194.150 acres of private plantation), 31.853 km of forest land (212.511 acre of forest land) and 18.712 km of government/ barren land (124.836 acres of government/ barren land). However, the entire distribution line corridor will pass only through the govt. / barren land.

<sup>7</sup> Total Line Length (kilometers) X Right of Way (meters)X1000/4,047= Area in Acre

59. The calculations are based on detailed survey/ investigation carried out along the route of distribution lines and considering the total line length of the line and its right of way. The total line length of distribution line is 251.692 km which will impact an estimated of 932.884 acres of land. Hence, the total area of 1786.30 acres will be impacted for construction of proposed 379.61 km transmission and distribution line. A brief description about the type and use of land in the corridor is given in **Table-4.2**.

**Table-4.2: Type and Use of Land within Corridor of RoW (in Km/Hectares)**

Sl. No.	Name of the Line	RoW (in mtr)	Agricultural land	Private Plantation	Forest	Govt/ Barren	Total
<b>A. Transmission Line</b>							
1.	Udaipur - Bagafa 132kV D/C	27	10.719 km (71.510 acre)	3.373 km (22.503 acre)	9.916 km (66.156 acre)	7.936 km (52.943 acre)	31.943 km (213.111 acre)
2.	Bagafa - Belonia 132kV D/C		5.212 km (34.772 acre)	3.083 km (20.569 acre)	0.930 km (6.205 acre)	3.520 km (23.484 acre)	12.745 km (85.030 acre)
3.	Belonia - Sabroom 132kV D/C		9.672 km (64.528 acre)	19.091 km (127.368 acre)	9.452 km (63.060 acre)	0.408 km (2.722 acre)	38.623 km (257.678 acre)
4.	Bagafa-Satchand 132kV D/C		18.790 km (125.360 acre)	2.691 km (17.953 acre)	3.389 km (22.610 acre)	4.506 km (30.062 acre)	29.376 km (195.985 acre)
5.	Udaipur -Amarpur 132kV D/C		3.860 km (25.752 acre)	0.863 km (5.758 acre)	8.166 km (54.480 acre)	2.342 km (15.625 acre)	15.231 km (101.615 acre)
<b>Sub-Total A</b>			<b>48.253 km (321.922 acre)</b>	<b>29.101 km (194.150 acre)</b>	<b>31.853 km (212.511 acre)</b>	<b>18.712 km (124.836acre)</b>	<b>127.918 km (853.419 acre)</b>
<b>B. Distribution Line</b>							
1.	Amarpur -Dalak 33kV	15	Nil	Nil	Nil	14.332 km (53.121 acre)	14.332 km (53.121 acre)
2.	Dalak – Jatanbari 33kV		Nil	Nil	Nil	7.932 km (29.400 acre)	7.932 km (29.400 acre)
3.	Amarpur - Checua 33 kV		Nil	Nil	Nil	19.765 km (73.258 acre)	19.765 km (73.258 acre)
4.	Taidu - 33/11kV Checua		Nil	Nil	Nil	16.215 km (60.100 acre)	16.215 km (60.100 acre)
5.	Taidu - Teliamura 33kV		Nil	Nil	Nil	13.401 km (49.670 acre)	13.401 km (49.670 acre)
6.	Maharani - Garjee 33 kV		Nil	Nil	Nil	20.104 km (74.514 acre)	20.104 km (74.514 acre)
7.	Maharani - Udaipur 33kV		Nil	Nil	Nil	6.017 km (22.302 acre)	6.017 km (22.302 acre)
8.	Chittamara - Garjee 33kV		Nil	Nil	Nil	19.487 km (72.228 acre)	19.487 km (72.228 acre)
9.	LILO Tirthamukh - Silachari I33kV		Nil	Nil	Nil	0.140 km (0.519 acre)	0.140 km (0.519 acre)
10.	Chittamara - Belonia 33kV		Nil	Nil	Nil	9.539 km (35.356 acre)	9.539 km (35.356 acre)
11.	LILO Belonia - Rajnagar 33kV		Nil	Nil	Nil	9.627 km (35.682 acre)	9.627 km (35.682 acre)

12.	Ekinpur - Rajnagar 33kV	Nil	Nil	Nil	15.918 km (58.999 acre)	15.918 km (58.999 acre)
13.	LILO Julaibari -	Nil	Nil	Nil	15.683 km	15.683 km
	Bagafa 33kV				(58.128 acre)	(58.128 acre)
14.	Srinagar - Manughat 33kV	Nil	Nil	Nil	16.223 km (60.130 acre)	16.223 km (60.130 acre)
15.	Srinagar - Satchand 33kV	Nil	Nil	Nil	17.664 km (65.471 acre)	17.664 km (65.471 acre)
16.	Tapping point of Belonia – Hryshumukh 33kV	Nil	Nil	Nil	15.329 km (56.816 acre)	15.329 km (56.816 acre)
17.	Manughat - Sabroom 33kV	Nil	Nil	Nil	12.825 km (47.535 acre)	12.825 km (47.535 acre)
18.	Rupaichari - Sabroom 33kV	Nil	Nil	Nil	14.578 km (54.033 acre)	14.578 km (54.033 acre)
19.	Rupaichari - Satchand 33kV	Nil	Nil	Nil	6.913 km (25.623 acre)	6.913 km (25.623 acre)
<b>Sub-Total B</b>		<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>251.692 km (932.884 acre)</b>	<b>251.692 km (932.884 acre)</b>
<b>Total (A + B)</b>		<b>48.253 km (321.922 acre)</b>	<b>29.101 km (194.150 acre)</b>	<b>31.853 km (212.511 acre)</b>	<b>270.404 km (1057.72 acre)</b>	<b>379.61 km (1786.30 acre)</b>

Source: Detailed Survey

#### 4.3.2. Total loss of crop area (RoW Corridor & Tower/Pole)

60. For the temporary loss of crops, only agricultural land and private plantation land are considered for estimation. The damages are not done in complete RoW of line (27 m for 132kV) but mostly restricted to tip to tip of the conductor and tower base area where average affected width/ corridor would be limited to 20 meter (maximum). In case of 33kV distribution line, damages are minimal (mostly near bi-pole/ quad-pole structure) however, 10 meter corridor is considered for accessing the damages. Moreover, all efforts are made to reduce the damages to crops and to minimize the impacts whatsoever. One of the reasons is that schedules of construction activities are undertaken in lean season or post-harvest periods. As the assets of any sorts will not be acquired but during construction, only temporary damages will occur for which the compensation shall be paid to affected persons as per entitlement matrix.

61. Based on the above estimation, the total land considered for crop compensation for transmission/distribution line corridor and tower/ pole foundation for the entire subproject covered under the scope of above CPTD is 382.276 acres. Since entire distribution line passes through the govt. / barren land, the total land considered for crop compensation for the distribution line corridor and pole foundation for the subproject covered under the scope of above CPTD is nil. Details of estimated impacted area for crop damages are given in **Table-4.3**.

**Table-4.3: Estimation on Loss of Land for Crop Damage due to Overhead Lines**

Name of the line	Width Considered for Estimation of Loss of Crops & other impacts (Meter)	Total Agricultural Land (km)	Total Private Plantation (km)	Total Line Length Considered for Crop Compensation (km)	Total Land Area considered for Crop Compensation (Acre)
Udaipur - Bagafa 132kV D/C	20	10.719	3.373	14.092	69.639
Bagafa - Belonia 132kV D/C		5.212	3.083	8.295	40.993
Belonia - Sabroom 132kV D/C		9.672	19.091	28.763	142.145
Bagafa - Satchand 132kV D/C		18.79	2.691	21.481	106.158
Udaipur - Amarpur 132kV D/C		3.86	0.863	4.723	23.341
<b>Total</b>		<b>48.253</b>	<b>29.101</b>	<b>77.354</b>	<b>382.276</b>

Source: Detailed Survey

#### 4.3.3. Actual loss of land for Tower Base

62. As already explained, the impact of transmission line is restricted to 4 legs of the tower and agriculture can continue after construction activity is over. The average land area will be unavailable for erection of one 132kV T/L tower and one pole for 33kV D/L is approx. 0.25 sq. m & 0.092 sq. m. respectively. Based on above, total land lost for construction of 127.918 km of 132kV transmission lines and 251.692 km of 33kV distribution lines proposed under the present scheme are estimated to be 0.0327 acre and 0.263 acre respectively. However, compensation toward loss of land shall be provided to APs which is part of RoW compensation. Detail of land loss for tower base & pole is given in **Table-4.4**.

**Table 4.4: Estimation of Actual Loss of Land for Tower Base & Pole**

Name of the line	Line length (km)	Total Tower (Nos.)	Land loss per tower/ pole base (sq.m.)	Total land loss area for tower & pole base (sq.m.)
<b>A. Transmission line</b>				
Udaipur - Bagafa 132kV D/C	31.943	126	0.25	31.50
Bagafa - Belonia 132kV D/C	12.745	53	0.25	13.25
Belonia - Sabroom 132kV D/C	38.623	169	0.25	42.25
Bagafa - Satchand 132kV D/C	29.376	118	0.25	29.50
Udaipur - Amarpur 132kV D/C	15.231	63	0.25	15.75
<b>Total - A</b>				<b>132.25 <math>\cong</math> 0.0327 acre</b>
<b>B. Distribution line</b>				
Amarpur - Dalak 33kV	14.332	634	0.092	58.328
Dalak - Jatanbari 33kV	7.932	324	0.092	29.808
Amarpur - Checua 33 kV	19.765	806	0.092	74.152
Taidu - 33/11kV Checua	16.215	821	0.092	75.532
Taidu - Teliamura 33kV	13.401	750	0.092	69.000

Maharani - Garjee 33 kV	20.104	549	0.092	50.508
Maharani - Udaipur 33kV	6.017	336	0.092	30.912
Chittamara - Garjee 33kV	19.487	728	0.092	66.976
LILO Tirthamukh-Silachari 33kV	0.140	13	0.092	1.196
Chittamara - Belonia 33kV	9.539	500	0.092	46.000
LILO Belonia - Rajnagar 33kV	9.627	359	0.092	33.028
Ekinpur - Rajnagar 33kV	15.918	767	0.092	70.564
LILO Julaibari - Bagafa 33kV	15.683	569	0.092	52.348
Srinagar - Manughat 33kV	16.223	989	0.092	90.988
Srinagar - Satchand 33kV	17.664	947	0.092	87.124
Tapping point of Belonia – Hryshumukh 33kV	15.329	702	0.092	64.584
Manughat - Sabroom 33kV	12.825	695	0.092	63.94
Rupaichari - Sabroom 33kV	14.578	758	0.092	69.736
Rupaichari - Satchand 33kV	6.913	328	0.092	30.176
<b>Total - B</b>				<b>1064.9 <math>\cong</math> 0.263 acre</b>

Source: Detailed Survey

#### 4.3.4. Land area for RoW compensation as per MoP Guidelines

63. Since Govt. of Tripura has not approved the adoption of MoP guidelines dated 15.10.2015 no payment will be paid for land compensation for RoW corridor area. However, as per prevailing practice compensation @ 100% land value for tower base shall be paid to the affected persons/land owners Details of estimation of land areas to be considered for such compensation are given in **Table-4.5**.

**Table-4.5 Estimated Land area for Tower base Compensation**

Name of the line	Line length (km)	Nos. of Tower	Land area for Tower base per km (in acre)	Total land area for tower base (In acre)
Udaipur - Bagafa 132kV D/C	31.943	126	0.036	1.150
Bagafa - Belonia132kV D/C	12.745	53	0.036	0.459
Belonia -Sabroom 132kV D/C	38.623	169	0.036	1.390
Bagafa-Satchand132kV D/C	29.376	118	0.036	1.058
Udaipur-Amarpur132kV D/C	15.231	63	0.036	0.548
<b>Total</b>				<b>4.605</b>

#### 4.3.5. Loss of Trees

64. Total numbers of trees likely to be affected due to construction of 127.918 km of 132kV line is approx. 13332, out of which 10,936 trees are in private area and 2396 trees are in Govt. area. Additionally, 433 nos. private bamboo trees are likely to be affected. The major species to be



affected are Betel nut (*Areca catechu*), Rubber (*Hevea brasiliensis*), Gamari (*Gmelina arborea*), Jackfruit (*Artocarpus heterophyllus*), Ber (*Ziziphus mauritiana*, Jamrul (*syzygium samarangense*), Bamboo (*Bambusa vulgaris*) etc. During construction, private trees will be compensated as per the entitlement matrix. No trees will to be felled during the construction of 251.692 km of 33kV line. However, pruning of trees may be required at some locations. Details on number of trees for each transmission line are given **Table-4.6**.

**Table-4.6: Loss of Trees**

Name of Line	Trees in Private Area (Numbers)	Trees in Govt. Area (Numbers)	Total Trees (Numbers)
Udaipur - Bagafa 132kV D/C	758	Nil	758
Bagafa - Belonia 132kV D/C	2200	780	2980
Belonia - Sabroom 132kV D/C	4427 + 50 Bamboo	289	4716 + 50 Bamboo
Bagafa - Satchand132kV D/C	3226	1145	4371
Udaipur - Amarpur132kV D/C	325 + 383 Bamboo	182	507+ 383 Bamboo
<b>Total</b>	<b>10,936 + 433 Bamboo</b>	<b>2,396</b>	<b>13,332 + 433 Bamboo</b>

Source: Detailed Survey

#### 4.3.6. Loss of Other Assets (Small Shed in Agriculture Fields)

65. It has been observed during survey that approximately 9 numbers of small structures exist along the right of way of proposed 132kV lines. These are small storage sheds/ huts which are mostly temporary structure associated with the agricultural fields. People do not use these small structures/ sheds for residential purpose and they use it as storage of agricultural purpose only. During construction, these will be compensated as per the entitlement matrix. However, no structures exist along the right of way of proposed 33kV distribution lines. Details on impacts on small structures are given in **Table-4.7**.

**Table-4.7: Loss of Other Assets**

Name of Line	Total no. of storage sheds/ huts
Udaipur - Bagafa 132kV D/C	02
Bagafa - Belonia132kV D/C	04
Belonia - Sabroom 132kV D/C	Nil
Bagafa - Satchand132kV D/C	02
Udaipur - Amarpur132kV D/C	01
<b>Total</b>	<b>09</b>

Source: Detailed Survey

#### 4.4. Details on Affected Persons

66. It is estimated that total number of affected persons which may be impacted temporarily by construction of 132 kV line will be approximately 1642, however in the case of 33 kV line, there are no persons likely to be affected as the entire line corridor passes through the govt. / barren land.

Details of line wise APS are given in **Table-4.8**. However, the number of APs in the table refers to the most conservative option. State Utilities/ POWERGRID will schedule civil works in such a way to minimize impacts and substantially reduce the damages to crops and therefore the number of affected persons and Agricultural Households (AHH).

**Table-4.8: Number of Affected Persons**

Name of Line	Total APs
Udaipur - Bagafa 132kV D/C	371
Bagafa - Belonia132kV D/C	180
Belonia - Sabroom 132kV D/C	620
Bagafa -Satchand132kV D/C	323
Udaipur -Amarpur132kV D/C	148
<b>Total</b>	<b>1642</b>

Source: Detailed Survey

#### 4.5. Other Damages

67. As far as possible damages to bund, water body, fish pond, approach path, drainage & irrigation canal etc. are avoided. However, if damaged during construction activities, compensation as per practice is paid to affected persons after assessment of the cost of damage by the State Govt. Revenue Department. The total estimate is submitted for approval to the competent authority. TSECL/ POWERGRID pay the compensation to owners in the presence of local revenue authorities or Village head/ Sarpanch and respective acknowledgements are obtained. Any hindrances to power, telecom carrier & communication lines etc. shall also be paid as per Govt. norms.

#### 4.6. Impact on Indigenous People

68. Government of India, under Article 342 of the Constitution, considers the following characteristics to define indigenous peoples [Scheduled Tribes (ST)]:

- (i) tribes' primitive traits;
- (ii) distinctive culture;
- (iii) shyness with the public at large;
- (iv) geographical isolation; &
- (v) social and economic backwardness before notifying them as a Scheduled Tribe.

69. Essentially, indigenous people have a social and cultural identity distinct from the 'mainstream' society that makes them vulnerable to being overlooked or marginalized in the development processes. STs, who have no modern means of subsistence, with distinctive culture

and are characterized by socio-economic backwardness, could be identified as Indigenous Peoples. Indigenous people are also characterized by cultural continuity. Constitution of India identifies schedule areas which are predominately inhabited by such people. The Sixth Schedule of the Constitution applies to a large part of the Tripura state, which is under the jurisdiction of the “Tripura Tribal Areas Autonomous District Council” (TTAADC). Out of the total geographical area of 10,491 sq. km, 7,344 sq. km (about 70%) is under the TTAADC. The Sixth Schedule areas are governed through “Autonomous District Councils” (ADC) that has wide-ranging legislative and executive powers.

70. The instant project is being implemented in Gumti and South Tripura districts which are also part of TTAADC area. Its council and assembly are situated in Khumulwng, a town 26 km away from Agartala, the state capital. Since, the project under NERPSIP is envisaged for economic uplifting of the NE region, hence, no indigenous population will be negatively impacted in the project area. However, It may be noted that all social issues shall be dealt separately in accordance with the provisions of Social Management Framework (SMF, A-C) placed in the TSECL’s ESPPF.

#### 4.7. Summary of Impacts

71. Based on the above assessment, temporary impacts on loss of crops, trees, other structures and number of APs are summarized below in **Table-4.9**.

**Table-4.9: Summary of Impacts**

Particulars	Details	
	Transmission Lines	Distribution Lines
Length of line ( km)	127.918	251.692
Number of Towers/ Poles (Nos.)	529	11575
Total Area under Tower base (in acre)	4.605	Nil
Total APs (Nos.)	1642	Nil
Affected Structures (Small Sheds for agricultural purpose (Nos.)	09	Nil
Area of Temporary Damages for crop compensation (in acre)	382.276	Nil
Total Trees (Nos.)	13332 + 433 Bamboo	Nil

*Source: Detailed Survey*

## V. ENTITLEMENTS, ASSISTANCE AND BENEFITS

### 5.1. Entitlements

72. There is no involuntary acquisition of land involved; only temporary damage will occur during construction of transmission lines for which compensation is paid as per relevant regulations/ norms. APs will be entitled for compensation for land loss and other towards temporary damages to crops/ trees/ structures etc. as per the Entitlement Matrix given in **Table-5.1**. Compensation towards temporary damages to all eligible APs including non-title holders is paid after assessment by relevant authorities of State Govt.

73. All APs are paid compensation for actual damages irrespective of their religion, caste and their economic status. One time additional lump sum assistance will be paid to vulnerable households not exceeding 25% of total compensation on recommendation of State Authority/ ADC/ VC. As an additional assistance, construction contractors are encouraged to hire local labour that has the necessary skills.

### 5.2. Entitlement Matrix

74. An Entitlement Matrix for the subprojects is given in **Table-5.1**.

**Table-5.1: Entitlement Matrix**

Sl.	Type of Issue/ Impact	Beneficiary	Entitlement Options
1.	Land area below tower base (#)	Owner	100% land cost at market value as ascertained by revenue authorities or based on negotiated settlement without actual acquisition/title transfer.
2.	Loss/damage to crops and trees in line corridor	Owner/ Tenant/ sharecropper/ leaseholder	Compensation to actual cultivator at market rate for crops and 8 years income for fruit bearing trees*. APs will be given advance notice to harvest their crops. All timber* will be allowed to retain by the owner.
3.	Other damages (if applicable)	All APs	Actual cost as assessed by the concerned authority.
4.	Loss of structure		
(i)	House	Titleholders	Cash compensation at replacement cost (without deduction for salvaged material and depreciation value) plus Rs. 25,000/- assistance (based on prevailing GOI norms for weaker section housing) for construction of house plus transition benefits as per category-5 below.
(ii)	Shop/ Institutions/ Cattle shed	Individual/ Titleholders	Cash compensation plus Rs. 10000/- for construction of working shed/shop plus transition benefits as per category-5 below

Sl.	Type of Issue/ Impact	Beneficiary	Entitlement Options
(iii)	Losses during transition under (i) & (ii) above for Shifting / Transport	Family/unit	Provision of transport or equivalent cash for shifting of material/ cattle from existing place to alternate place
(iv)	Tribal/ Vulnerable APs	Vulnerable APs <sup>8</sup>	One time additional lump sum assistance not exceeding 25% of total compensation on recommendation of State Authority/ADC/VC.

(#) As decided by State Govt./TSECL only land compensation for tower base shall be paid as per prevailing practice.

\* Assistance/ help of Forest department for timber yielding trees and Horticulture department for fruit bearing trees shall be taken for assessing the true value.

### 5.3. Procedure of Tree/ crop compensation

75. In exercise of the powers conferred by section 164 of the Electricity Act, 2003, Dept. of Power, Govt. of Tripura vide notification dated 20<sup>th</sup> June 2014, has authorized TSECL to exercise all the power vested in the Telegraph Authority under part-III of the Indian Telegraph Act, 1885, to place and maintain transmission lines under over along or across and posts in or upon, any immovable property. However, the provisions of same act in Section 10 (d) stipulates that the user agency shall pay full compensation to all interested for any damages sustained during the execution of said work. Accordingly, TSECL/ POWERGRID shall pay compensation to land owners towards damages, if any for tree, crop etc. during implementation of project as well as during operation and maintenance phase. The procedure followed for such compensation is as follows:

76. TSECL follows the principle of Avoidance, Minimization and Mitigation in the construction of line in agricultural field and cropping areas due to inherent flexibility in phasing the construction activity and tries to defer construction in cropped area to facilitate crop harvesting. However, if it is unavoidable and is likely to affect project schedule, compensation is given at market rate for standing crops. All efforts are also taken to minimize the crop damage to the extent possible in such cases.

77. As regard of trees coming in the Right of Way (RoW) following procedure is adopted for enumeration:

- All the trees which are coming within the clearance belt of RoW on either side of the centre line are identified and marked/numbered from one AP to the other and documented.
- Type, Girth (Measured 1 m. above ground level), approximate height of the tree is also noted for each tree.

<sup>8</sup> Vulnerable APs include scheduled tribes residing in scheduled areas/ physically handicapped/ disabled families etc.

- Trees belonging to Govt., Forest, Highways and other local bodies may be separately noted down or timely follow up with the concerned authorities for inspection and removal.
- Guava, Lemon, and other hybrid trees which are not of tall growing nature are not marked for cutting since these trees can be crossed using standard tower extensions if required.

78. A notice under Electricity Act, 2003/ Indian Telegraph Act, 1885 is served to the landowners informing that the proposed transmission line is being routed through the property of the individual concerned. The notice shall contain the particulars of the land, ownership details and the details of the trees/crops/land inevitably likely to be damaged during the course of the construction of the proposed transmission line and acknowledgement received from land owners. A copy of said notice is further issued to the Revenue Officer/ SDM, who has been authorized by the Tripura Govt. for the purpose of assessment/valuation and disbursement of compensation to the affected parties.

79. The revenue officer shall further issue a notice of intimation to the concerned land owner and inspect the site to verify the documents related to the proof of ownership and a detailed Mouja list is prepared for the identified trees/ crops/ land for tower footing inevitably damaged during the course of the construction. For assessing the true value of timber yielding trees help of forest officials is taken and for fruit bearing trees help of Horticulture department is taken.

80. The Mouja list contained the land owner details; type of tree/ crop, its present age, variety, yielding pattern etc. and the same is prepared at site in the presence of the land owner. These Mouja lists are further compiled and a random verification was conducted by the concerned DC or his authorized representative in order to ascertain the assessment carried out by the revenue office is genuine and correct. After this process the District Collector issue a tree cutting permission to TSECL to enable removal/ damage to the standing tree/crop identified in the line corridor.

81. Once the tree/ crop is removed/ damaged, TSECL shall issue a tree cutting/crop damaged notice to the land owner with a copy to the Revenue Officer to process the compensation payment. Based on the above the compensation payment is generated by means of a computerized programme developed by the National Informatics Centre exclusively for this purpose. The detailed Valuation statement thus generated using this programme is verified at various levels and approval of payment of compensation is accorded by the concerned District Collectors or Council Authority.

82. On approval of compensation, the revenue officer shall further intimate the amount payable to the different landowners and TSECL/ POWERGRID will arrange the payment by way Cheque/

online transfer to the affected parties. The payment is further disbursed at the local village office after due verification of the documents in presence of other witnesses. Process of tree/crop compensation is depicted in **Figure-5.1**.

#### 5.4. Land Compensation for Tower Footing

As per present practices, full compensation (100%) towards land value for tower base areas as decided by the district authority is paid to the affected persons/ land owners in addition to tree/crop damage compensation. Since State Govt./TSECL has decided that only land compensation for tower base shall be paid as per prevailing practice in the State, land compensation for corridor area as per MoP guidelines of Oct'15 shall not be applicable. Copy of Letter from TSECL dated 7<sup>th</sup> September 2018 to MoP is enclosed as **Annexure-3**.

#### 5.5. Compensation for Structure

83. No physical displacement is envisaged in the proposed project. Displacement of structures is normally not envisaged due to flexibility of routing of transmission line. However, whenever it is necessary, compensation for structures as per entitlement matrix shall be provided (refer **Table-5.1**). In the instant case, 09 number of small structures likely to be encountered in the right of way of proposed transmission lines only. These are small sheds/ small storage which are associated with the agricultural fields. People do not use these small structures/ sheds for residential purpose. A notice for damage is issued to APs and the joint measurement by TSECL/ POWERGRID and APs will be done and verified by revenue official for actual damages. The compensation will be paid to the APs as decided by committee based on state government norms. Hence, compensation is paid parallel with the construction activity of line.

#### 5.6. Compensation Disbursement Module

84. In order to streamline the compensation process, a disbursement module has been developed (**Table-5.2**) specifying the time period with respect to various process/ activities which will be implemented during the project execution.

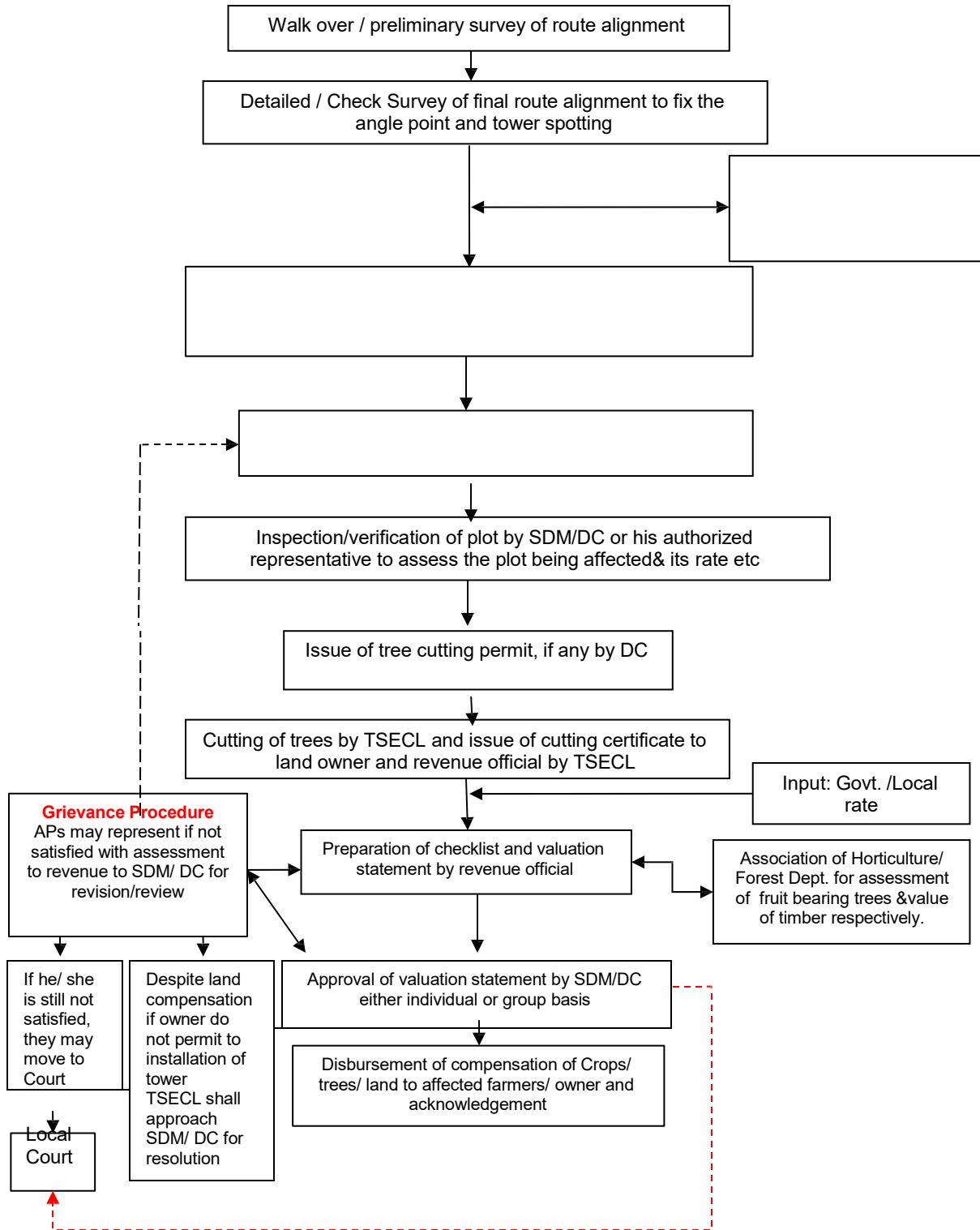
**Table-5.2: Compensation Disbursement Module**

Activity/Stage	Process	Maximum Time Period from Cut-Off date
Tower Foundation/ Erection/ Stringing	Serving of Notice ( <i>Cut-off date</i> )	0 date
	Verification of Ownership by Revenue Dept.	15 days
	Assessment/Verification of damages by Revenue Dept.	45 days
	Online disbursement*	60 days**

\* Provision of advance payment up to 25% (Rs. 1 lakh maximum) of total estimated land compensation already made in the RoW guidelines of POWERGRID and may also be implemented in the NERPSIP after consent of concerned State Utilities.

\*\*60 days is on maximum side. However, based on past experience it's normally concluded within 30-45 days.

**Figure-5.1: Tree/ Crop Compensation Process**





## VI. INFORMATION DISCLOSURE, CONSULTATION & PARTICIPATION

### 6.1. Consultations

85. Public consultation/ information is an integral part of the project implementation. Public is informed about the project at every stage of execution. During survey also TSECL & POWERGRID site officials meet people and inform them about the routing of transmission lines. During the construction, every individual, on whose land tower is erected and people affected by RoW, are consulted. Apart from this, Public consultation using different technique like Public Meeting, Small Group Meeting, informal Meeting shall also be carried out during different activities of project cycle. During such consultation the public are informed about the project in general and in particular about the following;

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

86. In the instant project also, many group meetings were organized (informally and formally) in all villages where the interventions are likely to happen (**Table-6.1**). These meetings were attended by Village Panchayat members, senior/ respected person of village, interested villagers/ general public and representatives from TSECL & POWERGRID. Besides, gender issues have also been addressed to the extent possible during such consultation process (total 53 female out of 323 participants). To ensure maximum participation, prior intimation in local language was given and such notices were also displayed at prominent places/ panchayat office etc. Details of above public consultation meetings including minutes of meeting, list of participants and photographs are enclosed as **Annexure-4**.

**Table-6.1 Details of Consultations**

Date of meeting	Venue of Meeting	Persons attended	Persons Attended
<b>Public Consultation Meeting</b>			
15.09.2014	BDO Office Conference Hall (Bagafa RD Block)	73	Block Development Officer (BDO), Representatives of Panchayat including Chairman, Vice Chairman & Members
20.09.2014	BDO Office Conference Hall (Matabari RD Block)	63	

26.09.2014	BDO Office Conference Hall (Satchand RD Block)	106	and Village Pradhan etc, local villagers & public in general.
<b>Informal Group Meeting</b>			
21.12.2018	Santirbazaar	12	Local villagers including Project Affected Persons
21.12.2018	Manu bazar	08	
26.12.2018	Sachiram Bari	06	
26.12.2018	Muhuripur	09	
03.03.2019	Thalchera locality/ Village (Amarpur)	15	
04.03.2019	Patachara locality, Garjee Village (Udaipur)	08	
06.03.2019	Chechua	19	
10.03.2019	Rupaichari	04	

87. During consultations/ interaction processes with people of the localized areas, TSECL/ POWERGRID field staffs explained benefit of the project & impacts of proposed transmission/distribution line, payment of compensation of crops, trees huts etc.. People more or less welcomed the construction of the proposed project.

88. Various issues inter alia raised by the people during public consultation and informal group meetings are as follows;

- The employment for local people & procedure for the same;
- Electrical safety while working in Agricultural fields below line;
- Improvement in Power supply/availability in villages;
- The width of RoW for cutting trees & compensation for the same; &
- If these lines passes through heavily populated/ house area.

89. TSECL & POWERGRID representative replied their queries satisfactorily and it was assured that all the genuine issues would be duly taken care during the implementation of the project including timely payment of compensation.

## **6.2. Plan for further Consultation and Community Participation during Project Implementation**

90. The process of such consultation to be continued during project implementation and even during O&M stage. The progress and proposed plan for Public consultation is described in **Table-6.2.**

**Table-6.2: Plan for Future Consultations**

S. N.	Activity	Technique	Schedule
1.	Detailed/ Check survey	Formal/Informal Meeting at different places (20-50 Km) en-route final route alignment of line	Public meeting during pre-construction stage
2.	Construction Phase	Localized group meeting, Pamphlet/ Information brochures, Public display etc.	During entire construction period.
3.	O&M Phase	Information brochures, Operating field offices, Response to public enquiries, Press release etc.	Continuous process as and when required.

### 6.3. Information Disclosure

91. The CPTD will be disclosed to the affected households and other stakeholders by placing it on website. To maintain the uninterrupted communication channel, TSECL & POWERGRID site officials are meeting APs and inform about norms and practices of damage assessment and compensation thereof. A notice also issued to APs after the detailed/ checks survey and finalization of tower location during the construction. Affected persons also visited site/construction offices of TSECL & POWERGRID to know about the compensation norms and policies and to discuss their grievances. For wider circulation, executive summary of the CPTD/ Entitlement Matrix will be translated in local language and placed at construction offices/ sites. The CPTD will also be disclosed on the World Bank website. TSECL & POWERGRID will organize further public consultation meetings with the stakeholders to share the views of public and all possible clarifications. This consultation process will continue throughout the project implementation and even during operation and maintenance (O&M) stage.

## VII. INSTITUTIONAL ARRANGEMENTS

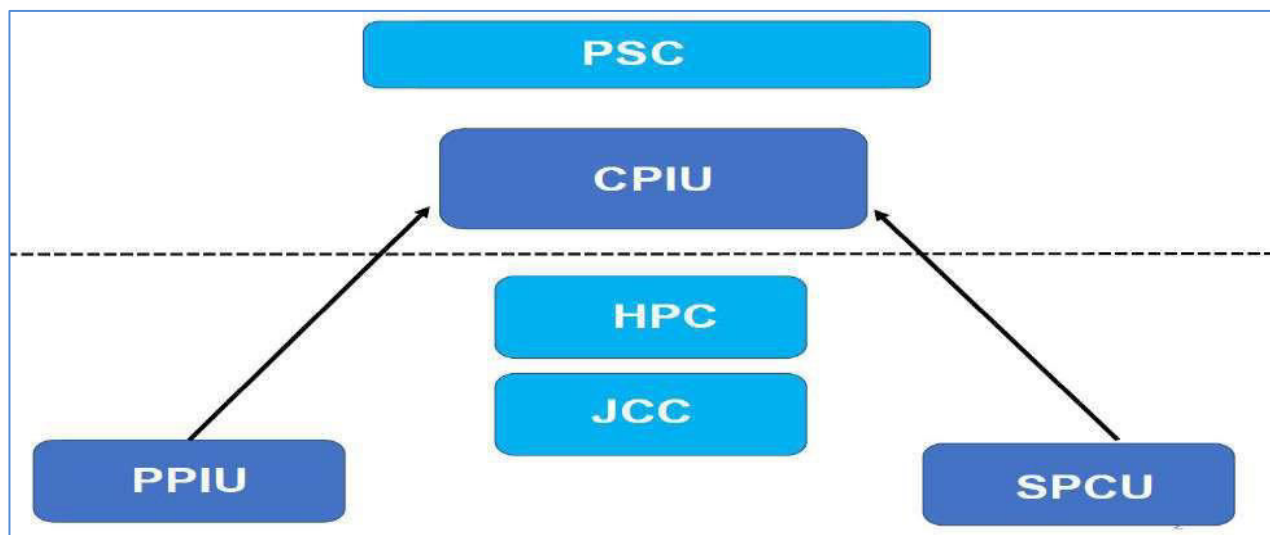
### 7.1. Administrative Arrangement for Project Implementation

92. Ministry of Power (MoP), GoI has appointed POWERGRID as Implementing Agency (IA) to implement the project in close coordination with the respective state power utilities and departments. POWERGRID will implement 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 will form part of overall arrangements for project management and implementation environment. Following implementation arrangement has been proposed at different levels for smooth implementation of this project;

**Central Project Implementation Unit (CPIU)** - A body responsible for coordinating the preparation and implementation of the project and shall be housed within the IA's offices at Guwahati. The "Project-In-Charge" of IA & Head of each of the SPCU shall be a member of CPIU.

**State Project Coordination Unit (SPCU)** – A body formed by the Utility and responsible for coordinating with IA in preparing and implementing the project at the State level. It consist of experts across different areas from the Utility and shall be headed by an officer of the rank not below Chief Engineer, from the Utility.

**PMC Project Implementation Unit (PPIU)** – A body formed by the IA, including members of Utility on deputation, and responsible for implementing the Project across the State, with its personnel being distributed over work site & working in close association with the SPCU/ CPIU. PIU report to State level "Project Manager" nominated by the Project-in-Charge of IA. The IA will have a Core team stationed at the CPIU on permanent basis and other IA officers (with required skills) will visit as and when required by this core team. This team shall represent IA and shall be responsible for all coordination with SPCU, PIU, within IA and MoP, GoI. CPIU shall also assist MoP, GoI in monitoring project progress and in its coordination with The Bank.



## 7.2. Review of Project Implementation Progress:

93. To enable timely implementation of the project/ subprojects, following committee has been setup to review the progress;

**A. Joint Co-ordination Committee (JCC):** IA and SPCU nominate their representatives in a body called JCC to review the project. IA shall specify quarterly milestones or targets, which shall be reviewed by JCC through a formal monthly review meeting. This meeting forum shall be called as Joint Co-ordination Committee Meeting (JCCM). The IA shall convene & keep a record of every meeting. MoP, Gol and The Bank may join as and when needed. Minutes of the meeting will be shared with all concerned and if required, with Gol and The Bank.

**B. High Power Committee (HPC):** The Utility in consultation with its State Government shall arrange to constitute a High Power Committee (HPC) consisting of high level officials from the Utility, State/ District Administration, Law enforcement agencies, Forest Department. etc. so that various permission/ approvals/ consents/ clearances etc. are processed expeditiously so as to reach the benefits of the Project to the end consumers. HPC shall meet on bimonthly basis or earlier, as per requirement. This forum shall be called as High Power Committee Meeting (HPCM) and the SPCU shall keep a record of every meeting. Minutes of the meeting will be shared with all concerned and if required, with Gol and The Bank.

**C. Contractor's Review Meeting (CRM):** Periodic Review Meeting will be held by officials of PIU with Contractors at field offices, State Head Quarters (PIU location) and if required with core team of IA at Guwahati. These shall be called "Contractor's Review Meeting" (CRM). PIU shall

keep a record of all CRMs, which shall be shared with all concerned and if required, with Gol and The Bank.

D. A review will be held among MoP, Gol, The Bank, State Government., Utility and IA, at four (4) months interval or earlier if needed, primarily to maintain oversight at the top level and also to debottleneck issues that require intervention at Gol/ State Government level. Minutes of the meeting shall be prepared by IA and shared with all concerned.

### **7.3. Arrangement for Safeguard Implementation**

94. At the CPIU is based at Guwahati, POWERGRID has set up an Environmental and Social Management cell (ESMC) which is headed by Executive Director (ED) to oversee Environmental and Social issues of the projects and to coordinate with SPCU & Site Offices.

95. At the State level, POWERGRID has already set up PPIU at the capital of each participating State. The PPIU is staffed with dedicated multidisciplinary team headed by Project Manager who is also responsible for overseeing and implementing the environmental and social aspects of project in their respective state. The PPIU team is assisted by a dedicated Field Officer (Environment & Social Management) who has been specifically recruited for this purpose by POWERGRID. Moreover, State Utilities have constituted State Project Coordination Unit (SPCU) at each state and also designated their Environmental & Social Officer within SPCU to work in close co-ordination with the PMC Project Implementation Unit of POWERGRID and CPIU team at Guwahati. Major responsibilities of Environment and Social team at State level are conducting surveys on environmental and social aspects to finalize the route/substation land, implementation Environment Management Plan (EMP)/ CPTD, co-ordination with the various statutory departments, monitoring EMP/CPTD implementation and producing periodic progress reports to CPIU.

96. In the instant subprojects, POWERGRID will implement the CPTD in close co-ordination with TSECL which includes overall coordination, planning, implementation, financing and maintaining all databases & also work closely with APs and other stakeholders. A central database will also be maintained for regular updating of social assessment & compensation data. State Utilities & POWERGRID will ensure that local governments are involved in the CPTD implementation to facilitate smooth settlement of compensation related activities. Roles and responsibilities of various agencies for CPTD implementation are presented in **Table-7.1**.

**Table-7.1: Agencies Responsible for CPTD Implementation**

Activity	Agency Responsible	
	Primary	Secondary
Implementing CPTD	Field staffs of POWERGRID & TSECL	
Updating the CPTD	POWERGRID	TSECL
Review and Approval of CPTD	TSECL	POWERGRID
Verification survey for identification of APs	POWERGRID, TSECL field staffs	Revenue Officials
Survey for identification of plots for Crop/Tree/ other damages Compensation	POWERGRID, TSECL	Revenue Officials
Consultation and disclosure of CPTD to APs	POWERGRID, TSECL	Revenue Officials
Compensation award and payment of compensation	Revenue Dept. / Competent Authority	POWERGRID, TSECL
Fixing of replace cost and assistance	Revenue Dept. / Competent Authority	POWERGRID, TSECL
Payment of replacement cost compensation	POWERGRID & TSECL	Revenue Dept.
Takeover temporary possession of land/houses	POWERGRID & TSECL	Revenue Dept.
Hand over temporary possession land to contractors for construction	POWERGRID & TSECL	Contractor
Notify construction starting date to APs	POWERGRID, TSECL Field Staff	Contractor
Restoration of temporarily acquired land to its original state including restoration of private or common property resources	Contractor	POWERGRID & TSECL
Development, maintenance and updating of Compensation database	POWERGRID & TSECL	
Development, maintenance and updating of central database	POWERGRID & TSECL	
Internal monitoring	POWERGRID & TSECL	
External monitoring, if required	POWERGRID & TSECL	

#### 7.4. Responsibility Matrix to manage RoW Compensation

97. In order to manage the RoW compensation effectively, a Work Time Breakdown (WTB) matrix depicting sequence of activities, timing, agencies responsible have been drawn both for Tree/ Crop and Land compensation which will be implemented during project execution.

**a) WTB for Tree/ Crop Compensation**

Activities	Responsibility		Time Schedule
	Primary	Secondary	
Identification of APs (During Tower spotting & Check Survey)	Contractor	TSECL& IA field staffs	In 3 different Stages i.e. before start of Foundation, Erection & Stringing Works
Serving Notice to APs	TSECL& IA field staffs	Revenue Dept.	0 date
Verification of ownership	TSECL, IA & Revenue Dept.	ADC (if applicable)	0-15 days
Joint Assessment of damages	Revenue Dept. & APs	TSECL/ IA	16-45 days
Payment (online/DD) of compensation to AP*	TSECL& IA		46-60 days

**b) WTB for Land Compensation\*\* for Tower base**

Activities	Responsibility		Time Schedule
	Primary	Secondary	
Identification of APs (During Tower spotting and Check Survey)	Contractors	TSECL& IA field staffs	Before start of Foundation/ Erection & Stringing Works
Fixation of land rate	DC, ADC/ Executive Committee (if applicable)	TSECL& IA	0 date
Serving Notice to APs	TSECL, IA field staffs	Revenue Dept.,	0-7 days
Assessment of compensation/ Verification of ownership	Revenue Dept./ ADC	TSECL& IA	8-15 days
Payment (online/DD) of compensation to AP*	TSECL& IA		16-30 days

\* AP can approach to DC for any grievance on compensation.

\*\* Discussion for release of certain % as advance is also under progress with Utilities.

**Note: Both a and b activities shall run parallel**



## VIII. GRIEVANCE REDRESS MECHANISM

98. Grievance Redress Mechanism (GRM) is an integral and important mechanism for addressing/resolving the concern and grievances in a transparent and swift manner. Many minor concerns of peoples were addressed during public consultation process initiated at the beginning of the project. For handling grievance, a two tier GRM consisting of Grievance Redress Committee (GRC) at two levels, i.e. project/scheme level and Corporate/ HQ level have been constituted. The project level GRCs include members from TSECL, POWERGRID, Local Administration, Village Council/ 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. The composition of GRC also disclosed in Panchayat/ Village council offices and concerned district headquarter for wider coverage.

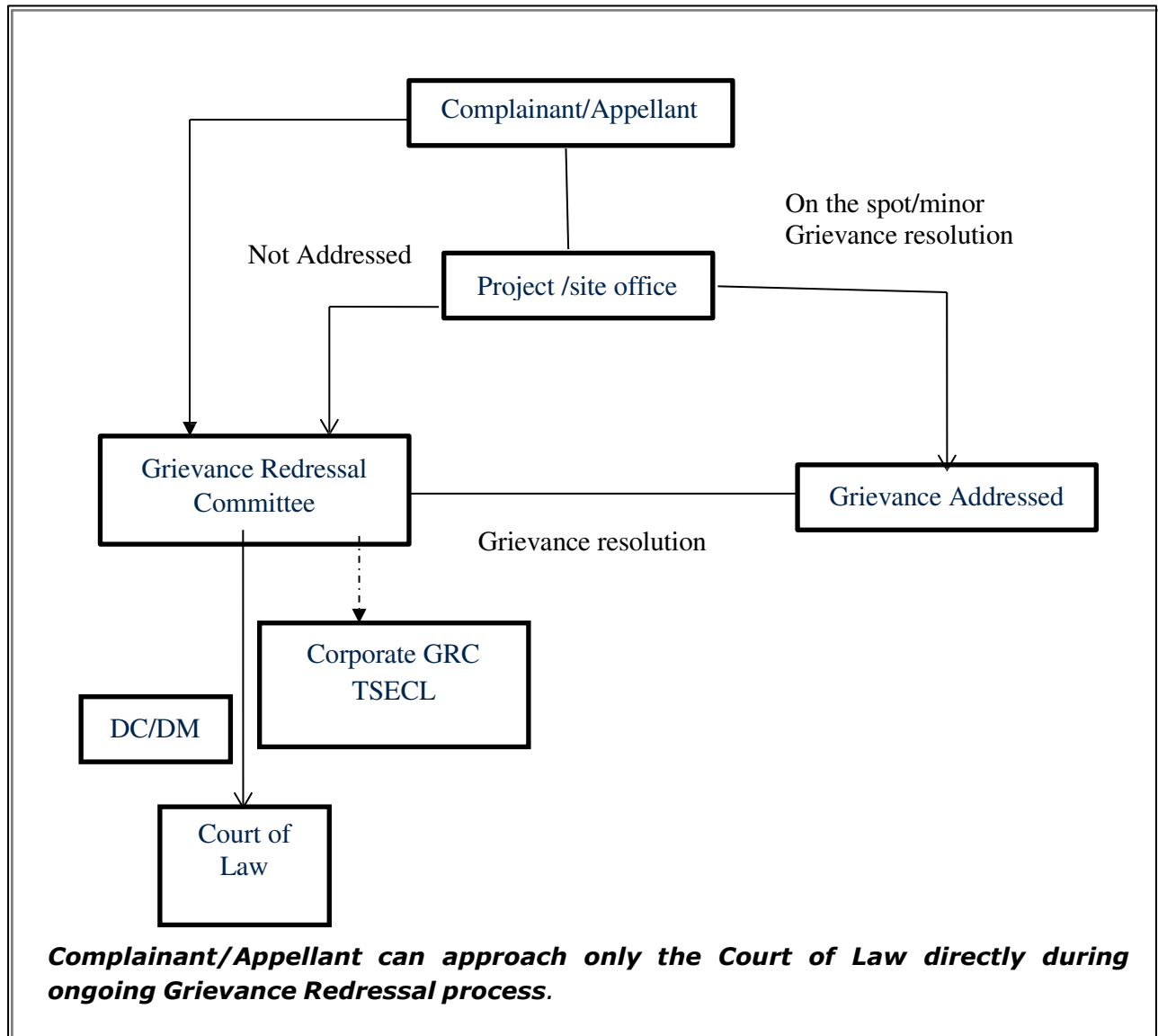
99. The complainant will also be allowed to submit its complaint to local project official who will pass it to GRC immediately but not more than 5 days of receiving such complaint. The first meeting of GRC will be organized within 15 days of its constitution/disclosure to formulate procedure and frequency of meeting. In case of any complaint, GRC meeting shall be convened within 15 days. If Project level GRC is not able to take decision it may refer the complaint to corporate GRC for solution. GRC endeavours to pronounce its decision within 30-45 days of receiving grievances. In case complainant/appellant is not satisfied with the decision of project level GRC they can make an appeal to corporate GRC for review. The proposed mechanism does not impede access to the country's judicial or administrative remedies at any stage.

100. The corporate level GRC shall function under the chairmanship of Director (Transmission) who will nominate other members of GRC including one representative from corporate ESMC who is conversant with the environment & social issues. The meeting of Corporate GRC shall be convened within 7-10 days of receiving the reference from project GRC or complainant directly and pronounce its decision within next 15 days.

101. 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, TSECL & POWERGRID officials also address to the complaints of affected farmers and the same are forwarded to revenue official for doing the needful. Details are depicted below in **Figure-8.1:**

**Figure-8.1: Flow Chart showing Grievance Redress Mechanism**



## IX. BUDGET

102. The CPTD Implementation cost estimate for the project includes eligible compensation for loss of crops/ trees/ huts and support cost for implementation of CPTD, monitoring, other administrative cost etc. Though Govt. of Tripura has not yet adopted MoP guidelines for RoW compensation for implementation, budgetary provision for compensation for Tower Base (@ 100% of the land cost) has been made as per the prevailing practices. Accordingly, the cost has been estimated for proposed 132kV lines only in the budget by including these provisions. However, this is a tentative budget which may change during the original course of implementation. The unit cost for the loss of crop has been derived through rapid field appraisal and based on TSECL & POWERGRID's previous experience of similar project implementation. Contingency provision equivalent to 3% of the total cost has also been made to accommodate any variations from this estimate. Sufficient Budget has been provided to cover all compensation towards, land use restriction, crops losses, other damages etc. As per TSECL & POWERGRID's previous projects and with strategy for minimization of impacts, an average of 50-60% of the affected land area is expected for compensation for crops and other damages. Structure will be avoided to the extent possible. However, if any structure is affected, budget provisions are available to cover all damages as per entitlement matrix. As detailed in above paras, initial study has confirmed that no residential structure shall be affected. Therefore, provisions of budget expenditure for implementation of CPTD for the subprojects considering corridor of 20 meter & 10 meter maximum for 132kV & 33kV line, respectively.

### 9.1 Compensation for Land under Tower Base

The land area for 132kV tower base is estimated as 0.036 acre per km. The cost of land is estimated @ Rs. 15 lakh/ acre considering the land use type as agriculture land in rural setting. As Govt. of Tripura has not approved the adoption of MoP guidelines dated 15.10.2015 no payment shall be paid for land compensation for RoW corridor. However, as per prevailing practice only land compensation @ 100% land value for tower base will be paid. Accordingly, land compensation cost for 132kV lines tower base is estimated around Rs. 69 Lakhs. A detail of cost is given below in **Table-9.1**.

**Table-9.1: Cost of Land Compensation for Tower Base**

Name of Line	Line Length (km)	Land Area for Tower Base (acre)	Avg. Cost of Land (Lakhs /acre)	Total in Lakhs (Tower base @ 100%)
Udaipur - Bagafa 132kV D/C	31.943	1.150	15.00	17.25
Bagafa – Belonia 132kV D/C	12.745	0.459		6.89
Belonia - Sabroom 132kV D/C	38.623	1.390		20.85

Bagafa –Satchand 132kV D/C	29.376	1.058	15.87
Udaipur –Amarpur 132kV D/C	15.231	0.548	8.22
<b>Total</b>			<b>69.08</b>

## 9.2 Compensation for Crops and Trees

103. The crop compensation is calculated in consultation with revenue authorities in terms of yield/ hectare and rate/ quantity for prevailing crops in the area. Similarly, tree compensation is calculated on the basis of tree enumeration, tree species and its estimate of the yield. In case of fruit bearing trees compensation will be calculated on the basis of 8 years yield (assessed by revenue/horticulture department). Market rates of compensation are assessed by the relevant government authorities. The estimation of crop and tree damages are based on preliminary investigation and accordingly budgetary provisions are made which will be updated during implementation. Detail of line wise cost estimation is given in **Table-9.2**. Since the entire line corridor of 33 kV passes through the govt. / barren land, no compensation is considered for tree and crop for the distribution lines.

**Table-9.2: Cost of Compensation for Crops and Trees**

Sl. No	Name of the Line	Line Length in Non-forest area (Km)	Compensation /Km (In Lakh)	Total compensation cost for Crops & trees (Lakh)
1.	Udaipur - Bagafa 132kV D/C	22.03	5.0	110.15
2.	Bagafa - Belonia132kV D/C	11.82	5.0	59.10
3.	Belonia - Sabroom 132kV D/C	29.17	5.0	145.85
4.	Bagafa - Satchand132kV D/C	26.00	5.0	130.00
5.	Udaipur - Amarpur132kV D/C	7.07	5.0	35.35
<b>Total</b>				<b>480.45</b>

## 9.3. Summary of Budget

104. The total indicative cost is estimated to be **INR 597.26 Lakhs** equivalent to **USD 0.919 million**. Details are given in **Table-9.3**. The following estimated budget is part of complete project cost as on date. However, actual updating of the estimated cost shall be done during execution.

**Table-9.3: Summary of Budget**

Item	Amount in Lakh (INR)	Amount in (Million USD)
<b>A. Compensation</b>		
A-1: Loss of Crops and Trees	480.45	0.74
A-2: Land Compensation for Tower Base	69.08	0.106

<b>Sub Total-A</b>	<b>549.53</b>	<b>0.846</b>
<b>B: Implementation Support Cost</b>		
B-1: Man-power involved for CPTD Implem. & Monitoring	20.34	0.031
B-2: External Monitoring, if required	10.00	0.015
<b>Sub Total- B</b>	<b>30.34</b>	<b>0.046</b>
<b>Total (A+B)</b>	<b>579.87</b>	<b>0.892</b>
<b>Contingency (3%)</b>	<b>17.39</b>	<b>0.027</b>
<b>Grand Total</b>	<b>597.26</b>	<b>0.919</b>

## X. IMPLEMENTATION SCHEDULE

105. Following work schedule has been drawn for implementation of CPTD considering letter of award for execution of work placed in end of 2016. Tentative implementation schedule for project including various sub tasks presented in **Table-10.1**.

106.

**Table-10.1 Tentative Implementation Schedule**

Sl. No.	Activity	1 <sup>st</sup> Yr		2 <sup>nd</sup> Yr				3 <sup>rd</sup> Yr				4 <sup>th</sup> Yr	
		Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 3	Q 4
<b>1.</b>	<b>Initial CPTD Matrix disclosure</b>												
<b>2.</b>	<b>Detailed Survey</b>												
<b>3.</b>	<b>Public Consultation</b>												
<b>4.</b>	<b>Compensation Plan Implementation</b>												
i)	Compilation of land record, ownership,												
ii)	Finalization of list of APs, fixing rate by DC												
iii)	Serving of Notice to APs												
iv)	Joint assessment & acknowledgement by APs												
v)	Validation of Compensation amount												
vi)	Compensation Payment												
<b>5.</b>	<b>Civil Works</b>												
<b>6.</b>	<b>Review/ Activity Monitoring</b>												
i)	Monthly												
ii)	Quarterly												
iii)	Half yearly												
iv)	Annual												
<b>7.</b>	<b>Grievance redress</b>												
<b>8.</b>	<b>CPTD Documentation</b>												
<b>9.</b>	<b>External Monitoring, if required</b>												

## XI. MONITORING AND REPORTING

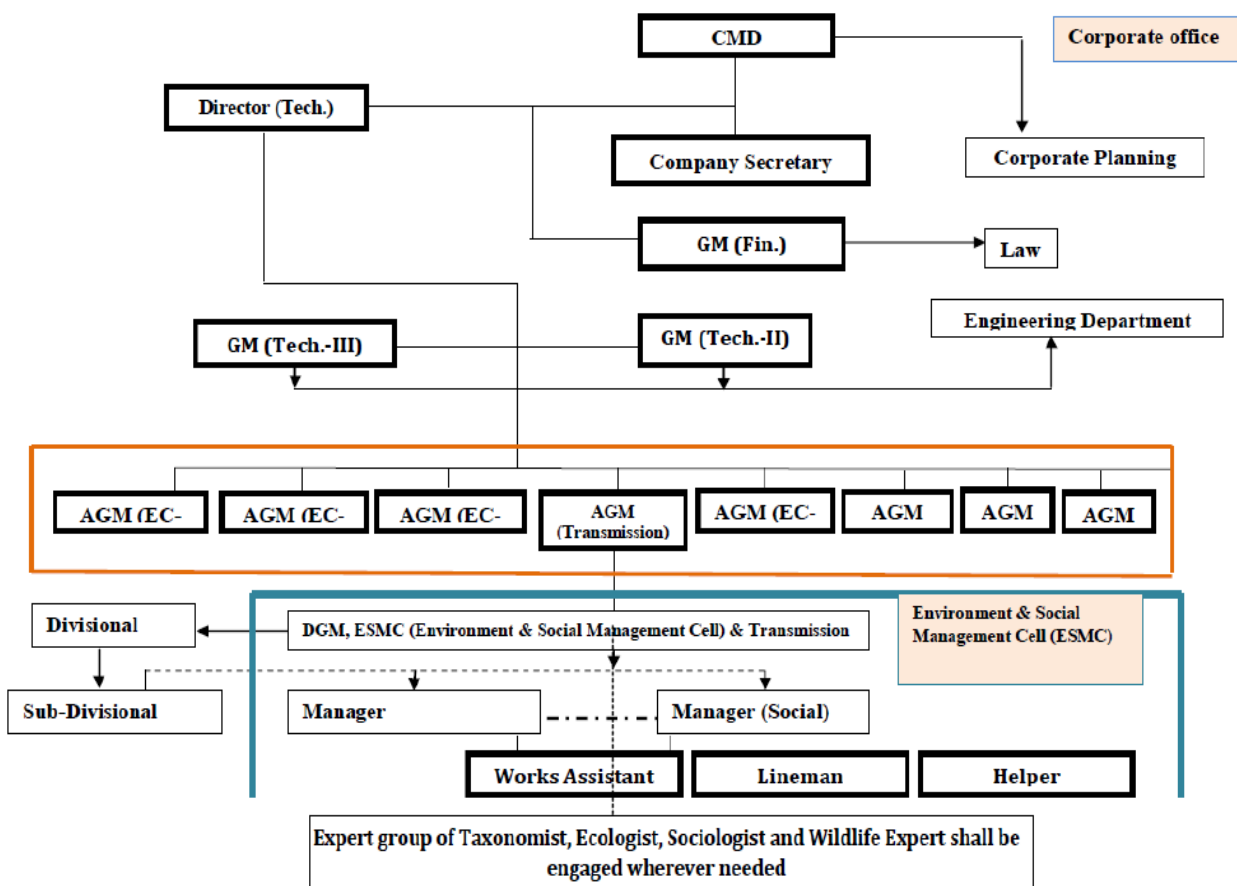
107. Monitoring is a continuous process at all stages of project. Monitoring of CPTD implementation will be the responsibility of POWERGRID as well as the State Utility.

108. Internal monitoring will include: (i) administrative monitoring: daily planning, implementation, feedback and troubleshooting, maintenance, and progress reports and (ii) socio-economic monitoring: compensation for land/crops/trees or any other damages, demolition if any, salvaging materials, dates for consultations and number of grievance/ complaints received etc. Monitoring and reports documenting progress on compensation/ implementation of CPTD will be provided by POWERGRID to World Bank for review semi-annually.

109. If required, POWERGRID/ State Utility will engage the services of an independent agency/ external monitoring and provisions for the same have been made in the budget component.

110. TSECL is well equipped to implement and monitor its environment and social management plan including CPTD. Organizational Support Structure of TSECL for monitoring of above is given in **Figure-11.1**.

**Figure-11.1: TSECL Support Structure for Safeguard Monitoring**



### **11.1 Status of Compensation (Tree/ Crop / Land / Structure)**

111. As explained in previous chapters, compensation for the loss of crops, trees, land, structure etc. are paid to Affected Persons (APs) based on actual damages in 3 different stages i.e. during foundation work, tower erection & stringing as per norms. Till Oct, 2020, works in 15 tower locations out of total of 489 t locations have been completed. However, no compensation in respect of tree/crop/land has been paid till date.

### **11.2 Status of Grievances**

112. No minor or major complaints including court case has been registered till date against any of the subprojects covered under present CPTD.



## **ANNEXURE -1**

### ***EVALUATION OF ALTERNATIVES ROUTE ALIGNMENT***

## EVALUATION OF ALTERNATIVES ROUTE ALIGNMENT

Three different alignments were studied with the help of Google Maps / published data such as Forest Atlas, Survey of India topographic sheets, etc. and walkover survey to arrive at the most optimum route to be considered for detailed survey. The comparative details of these three alternatives in respect of the proposed lines are as follows;

### 1. 132 KV D/C UDAIPUR - BAGAF A TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length - 24.5 km)			
i.	Route Length (km)	31.94	34.76	36.26
ii.	Terrain			
	Hilly (Gentle slope)	40%	70%	80%
	Plain	60%	30%	20%
2.	<b>Environmental impact</b>			
i.	Name of District through which the line passes	Gumti & South Tripura	Gumti & South Tripura	Gumti & South Tripura.
ii.	Towns in alignment	Udaipur, Bagafa & Santirbazaar.	Udaipur, Bagafa & Santirbazaar	Udaipur, Bagafa & Santirbazaar
iii.	House within RoW	02	04	08
iv.	Forest involvement in Ha/km	26.77 ha/ 9.91 km	70.2ha / 26 km	81ha /30 km
v.	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve /Wetlands or any other environmentally sensitive area.	Reserved Forest & Trishna wildlife sanctuary is approx. 1 km from the line	Reserved Forest & Trishna wildlife sanctuary is coming across the route.	Reserved Forest & Trishna wildlife sanctuary is approx.5 km from the line
vi.	Density of Forests	Low	Moderate	Dense
vii.	Type of flora	Mainly Sal, Teak, Rubber etc.	Mainly Sal, Teak, Rubber etc.	Mainly Sal, Teak, Rubber etc.
viii.	Type of fauna	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.
ix.	Endangered species, if any	Nil	Nil	Nil
x.	Historical/cultural monuments	Nil	Nil	Nil
3.	<b>Compensation Cost</b>			
i.	Crop (Non Forest)	Rs 110.00 lakhs (Approx.)	Rs. 43.80 lakhs (Approx.)	Rs. 31.30 lakhs (Approx.)
ii.	Forest (CA, NPV etc.)	Rs. 5.35 Crores (Approx.)	Rs. 14.04 Crores (Approx.)	Rs. 16.20 Crores (Approx.)
4.	<b>Major Crossings</b>			
i.	Highway (National/ State)	1 (NH)	1 (NH)	1 (NH)
ii.	Power line	Nil	Nil	Nil
iii.	Railway line	1	1	1
iv.	River crossing	Nil	Nil	Nil

S.N	Description	Alternative-I	Alternative-II	Alternative-III
5.	<b>Construction problems</b>	Less due to involvement of more plain area and better approaches	Moderate	High
6.	<b>O&amp;M problems</b>	O&M shall be easier due to less hilly & forest area and better approaches	Moderate	High

From the comparative analysis it is evident that complete avoidance of reserved forest area is not possible as reserved forest invariably intercepts with all the three alternatives studied around the bee line. However, Alternative Route-I is shorter in length as compared to Alternative-II and Alternative-III and pass through mostly plain area with minimum stretch of reserved forest area and avoiding the Trishna Wildlife Sanctuary which is approx. 1 km away from line. Therefore, Alternative-I found to be the most optimum and recommended for detailed survey.

## 2. 132 KV D/C BAGAF A - BELONIA TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 10.6 km)			
i	Route Length (km)	12.75	13.5	12.2
ii.	Terrain			
	Hilly (Gentle slope)	40%	40%	40%
	Plain	60%	60%	60%
2.	<b>Environmental Impact</b>			
i	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii	Town in alignment	Bagafa, Belonia. & Santirbazaar	Bagafa, Belonia. & Santirbazaar	Bagafa, Belonia. & Santirbazaar
iii	House within ROW	04	06	09
iv	Forest involvement in Ha/km	2.51 Ha./0.93 km	24.3 Ha. / 9 km	20.25 Ha./7.5 km
v	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	Reserved Forest (proposed )	Reserved Forest (proposed )	Reserved Forest (proposed ) and some portion of Bormura Deoutanmura RF
vi	Density of Forests	Low	Moderate	High
vii	Type of flora	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.
viii	Type of fauna	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.

S.N	Description	Alternative-I	Alternative-II	Alternative-III
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	Rs. 59.10 Lakh (Approx.)	Rs. 22.50 Lakh (Approx.)	Rs. 23.50 Lakh (Approx.)
ii	Forest (CA, NPV etc.)	Rs. 0.50 Crore (Approx)	Rs. 4.86 Crore (Approx)	Rs. 4.05 Crore (Approx)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	1 (SH)	1 (SH)	1 (SH)
ii	Power line	Nil	Nil	Nil
iii	Railway line	1	1	1
iv	River crossing	Nil	Nil	Nil
5.	<b>Construction problems</b>	Less due to easy approaches and less involvement of forest area	Most difficult due less approachability and involvement of more forest area	Comparatively more due difficult approaches and involvement of more forest area
6.	<b>O&amp;M problems</b>	O&M shall be easier due to less forest involvement and better approaches	High	Moderate

From the above comparison of the three different alternatives, it is observed that complete avoidance of reserved forest is not possible in any of the route alignments studied around bee line. Although Alternative-I is not the shortest in route length and little higher in length than Alternate –III but it involves minimum stretch of reserved forest and also tree felling will be minimum. Alternative-I is least affecting the environment as compared to other alternatives. Therefore, Alternative-I is found to be most optimum alignment and recommended for detailed survey.

### 3. 132 KV D/C BELONIA - SABROOM TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars (Bee Line Length – 34 KM)</b>			
i	Route Length (km)	38.62	32.7	35.4
ii.	Terrain			
	Hilly (Gentle slope)	20%	80%	90%
	Plain	80%	20%	10%
2.	<b>Environmental Impact</b>			
i	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii	Town in alignment	Belonia & Sabroom.	Belonia & Sabroom	Belonia & Sabroom
iii	House within ROW	Nil	05	03
iv	Forest involvement in Ha/km	25.52 Ha./9.45 km.	54 Ha./ 20 km	83.7 Ha./31 km

S.N	Description	Alternative-I	Alternative-II	Alternative-III
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	Reserved Forest (Tekka Tulsi R.F)	Reserved Forest (Tekka Tulsi R.F)	Reserved Forest (Tekka Tulsi R.F)
vi	Density of Forests	Moderate	High	High
vii	Type of flora	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.
viii	Type of fauna	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	Rs. 1.45 Crore (Approx.)	Rs. 0.75 Crore (Approx.)	Rs. 0.35 Crore (Approx.)
ii	Forest (CA, NPV etc.)	Rs. 5.10 Crore (Approx)	Rs10.80 Crore (Approx)	Rs. 16.74 Crore (Approx)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	Nil	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	1	1	1
iv	River crossing	Nil	Nil	Nil
5.	<b>Construction problems</b>	Less due to easy approachability through plain area and less involvement of forest	Comparatively more due to involvement more hilly and forest area	Most difficult due to involvement more hilly and forest area
6.	<b>O&amp;M problems</b>	O&M shall be easier due to less hilly & forest area and better approaches	Moderate	High

From the above comparison of the three different alternatives, it is observed that complete avoidance of reserved forest is not possible in any of the route alignments studied around bee line. Although Alternative-I route alignment is longer than Alternative – II & III, but involves minimum forest area and easily approachable due to plane terrain. Alternative-II & III are comparatively having high involvement of forest area and more number of tree felling. Hence Alternative-I which is least affecting the environment is found to be most optimum alignment and recommended for detailed survey.

#### 4. 132 KV D/C BAGAF A - SATCHAND TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
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S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length -26.2 km)			
i	Route Length (km)	29.38	27.4	40.3
ii.	Terrain			
	Hilly (Gentle slope)	40%	70%	80%
	Plain	60%	30%	20%
2.	<b>Environmental impact</b>			
i	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii	Towns in alignment	Bagafa, Satchand, Santirbazaar & Sabroom	Bagafa, Satchand , Santirbazaar & Sabroom	Bagafa, Satchand , Santirbazaar & Sabroom
iii	House within ROW	02	06	03
iv	Forest involvement in Ha./km	9.15 Ha./3.38km	43.2 Ha/ 16 km	48.6 Ha./18 km
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	Reserved Forest (Proposed)	Reserved Forest (Tekka Tulsı RF)	Reserved Forest (Muhuripur and Deotamura Barmura RF)
vi	Density of Forests	Moderate	Dense	Dense
vii	Type of flora	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.
viii	Type of fauna	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.	Crow, Sparrow, Pigeon, Lizard, Fox, Monkey, Cat, Snake etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	Rs. 1.30 Crore (Approx.)	Rs. 67. 00 Lakh (Approx.)	Rs. 1.11 Crore (Approx.)
ii	Forest (CA, NPV etc)	Rs. 1.83 Crore (Approx.)	Rs. 8.64 Crore (Approx.)	Rs. 9.72 Crore (Approx.)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	1 (NH)	1 (NH)	2 (NH)
ii	Power line	Nil	Nil	Nil
iii	Railway line	1	1	Nil
iv	River crossing	Nil	Nil	Nil
5.	<b>Construction problems</b>	Less due to involvement of more plain area and better approaches	Comparatively more due to involvement more hilly and forest area	Most difficult due to involvement more hilly and forest area

S.N	Description	Alternative-I	Alternative-II	Alternative-III
6.	<b>O&amp;M problems</b>	O&M shall be easier due to less hilly & forest area and better approaches	Moderate	High

From the above comparison of the three different alternatives, it is observed that complete avoidance of reserved forest is not possible in any of the route alignments studied around bee line. Although Alternative-I is not the shortest route length and little higher in length than Alternate –II but it involves minimum stretch of reserved forest and also tree felling will be minimum. Alternative-I is least affecting the environment as compared to other alternatives. Therefore, Alternative-I is found to be most optimum alignment and recommended for detailed survey.

### 5. 132 KV D/C UDAIPUR - AMARPUR TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length - 15 km)			
i	Route Length (km)	15.23	19	18.6
ii.	Terrain			
	Hilly (Gentle slope)	80%	80%	80%
	Plain	20%	20%	20%
2.	<b>Environmental impact</b>			
i	Name of District through which the line passes	Gumti	Gumti	Gumti
ii	Towns in alignment	Udaipur & Amarpur	Udaipur & Amarpur	Udaipur & Amarpur
iii	House within RoW	01	05	04
iv	Forest involvement in Ha/km	22.04 Ha./ 8.16 km	24.3 Ha./ 9 km	32.4 Ha./12 km
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots/ Biosphere Reserve/ Wetlands or any other environmentally sensitive area.	Reserved Forest (Deotamura Barmura RF)	Reserved Forest (Deotamura Barmura RF)	Reserved Forest (Deotamura Barmura RF)
vi	Density of Forests	Moderate	Moderate	Dense
vii	Type of flora	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.	Mainly Sal, Teak and Rubber etc.
viii	Type of fauna	Crow, Sparrow, Fox, Pigeon, Lizard, Cat, Monkey, Snake etc.	Crow, Sparrow, Fox, Pigeon, Lizard, Cat, Monkey, Snake etc.	Crow, Sparrow, Fox, Pigeon, Lizard, Cat, Monkey, Snake
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	Rs 35.35 lakhs (Approx.)	Rs 50.00 lakhs (Approx.)	Rs 33.00 lakhs (Approx.)
ii	Forest (CA, NPV etc.)	Rs 4.40 Crore (Approx)	Rs 4.86 Crore (Approx)	Rs 6.48 Crore (Approx)
4.	<b>Major Crossings</b>			



S.N	Description	Alternative-I	Alternative-II	Alternative-III
i	Highway (National/State)	1 (SH)	1 (SH)	1 (SH)
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	Nil	Nil	Nil
5.	<b>Construction problems</b>	Less due to easy approaches and less involvement of forest area	Comparatively more due to difficult approaches and involvement of more forest area	Most difficult due to non-existing approach path and involvement of more forest area
6.	<b>O&amp;M problems</b>	O&M shall be easier due to less forest involvement and better approaches	Moderate	High

From the above comparative analysis, Alternative-I is shortest in length than Alternative-II and Alternative-III. It is also observed that complete avoidance of reserved forest is not possible in any of the route alignments studied around bee line. However, it is evident that Alternative-I involve minimum stretch of reserved forest and also tree felling will be minimum. Therefore, Alternative-I is found more optimum and recommended for detailed survey.

## 6. Amarpur (New) S/s - Dalak (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars (BEE LINE LENGTH :-10.5 KM)</b>			
iii.	Route Length (km)	14.332	15.42	16.0
iv.	Terrain			
	Hilly (Gentle slope)	50%	50%	50%
	Plain	50%	50%	50%
2.	<b>Environmental Impacts</b>			
xi.	Name of District through which the line passes	Gumti	Gumti	Gumti
xii.	Town in alignment	Nearest town is Amarpur	Nearest town is Amarpur	Nearest town is Amarpur
xiii.	House within ROW	NIL	NIL	NIL
xiv.	Forest involvement in Ha/km	NIL	NIL	NIL
xv.	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	N.A.	N.A.	N.A.
xvi.	Density of Forests	N.A.	N.A.	N.A.

S.N	Description	Alternative-I	Alternative-II	Alternative-III
xvii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> )	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> )
xviii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
xix.	Endangered species, if any	NIL	NIL	NIL
xx.	Historical/cultural monuments	NIL	NIL	NIL
xxi.	Any other relevant information	The proposed route is located along the State Road.		
<b>3</b>	<b>Compensation</b>			
iii.	Crop (Non Forest)	7.17 lakhs estimated @ Rs. 0.5 Lakhs per km	7.71 lakhs estimated @ Rs. 0.5 Lakhs per km	8 lakhs estimated @ Rs. 0.5 Lakhs per km
iv.	Forest (CA+NPV)	Nil	Nil	Nil
<b>4.</b>	<b>Major Crossings</b>			
v.	Highway (National/State)	1 (SH)	NIL	NIL
vi.	Power line	NIL	NIL	NIL
vii.	Railway line	NIL	NIL	NIL
viii.	River crossing	1	1	1
<b>5.</b>	<b>Overall Remarks</b>			
		Preferred Route considering shortest line length.	Not preferred due to higher line length	Not preferred due to higher line length

From the comparative analysis, it is clear that Alternative-I is the shortest route of all the three routes studied. None of the three Alternatives involve Forest Area. Apart from that, Alternative-I is placed along the existing state road, which will result in better accessibility, lower construction/ O&M problems and ROW issues. Hence, Alternative-I is found to be most optimum route and recommended for detail survey.

## 7. Amarpur (New) S/s - Checua (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 13 km)			
i.	Route Length (km)	19.765	20.12	21.34
ii.	Terrain			
	Hilly (Gentle slope)	60%	80%	90%
	Plain	40%	20%	10%
2.	<b>Environmental impact</b>			

S.N	Description	Alternative-I	Alternative-II	Alternative-III
i	Name of District through which the line passes	Gumti	Gumti	Gumti
ii	Towns in alignment	Nearest town is Amarpur	Nearest town is Amarpur	Nearest town is Amarpur
iii	House within RoW	NIL	NIL	NIL
iv	Forest involvement in Ha/km	NIL	9 KM/13.5 Ha	8 KM/12 Ha
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve/Wetlands or any other environmentally sensitive area.	N/A	Reserved Forest	Reserved Forest
vi	Density of Forests	N/A	Dense	Dense
vii	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
xi	Any other relevant information	The route is proposed along the State Road.		
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	9.88 lakhs estimated @ Rs. 0.5 Lakhs per km	3.31 lakhs estimated @ Rs. 0.5 Lakhs per km	6.67 lakhs stimated @ Rs. 0.5 Lakhs per km
ii	Forest (CA, NPV etc.)	NIL	Rs. 2.7 Crore (Approx)	Rs 2.4 Crore (Approx)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	State Road	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	1	1	1

From the above analysis, it is clear that not only the line length of Alternative-I is lesser than Alternative –II and Alternative-III but also it doesn't involve any forest area also, unlike the

other two Alternatives which are passing through reserve forest area. Moreover, since Alternative – I is proposed along the state road, lesser degree of Construction, O&M and ROW problems are anticipated. Hence, Alternative-I is found to be most optimum route and recommended for detail survey.

## 8. Taidu (New) S/s - Checua (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 12 km)			
i	Route Length (km)	16.215	18	19
ii.	Terrain			
	Hilly (Gentle slope)	70%	80%	90%
	Plain	30%	20%	10%
2.	<b>Environmental Impacts</b>			
i	Name of District through which the line passes	Gumti	Gumti	Gumti
ii	Towns in alignment	Nearest town is Amarpur	Nearest town is Amarpur	Nearest town is Amarpur
iii	House within RoW	NIL	NIL	NIL
iv	Forest involvement in Ha/km	NIL	12 KM/18 Ha	15 KM/22.5 Ha
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve/Wetlands or any other environmentally sensitive area.	N/A	Reserved Forest	Reserved Forest
vi	Density of Forests	N/A	Dense	Dense
vii	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
xi	Any other relevant information	The route is proposed along the State Road.		

S.N	Description	Alternative-I	Alternative-II	Alternative-III
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	8.12 lakhs estimated @ Rs. 0.5 Lakhs per km	3 lakhs estimated @ Rs. 0.5 Lakhs per km	2 lakhs estimated @ Rs. 0.5 Lakhs per km
ii	Forest (CA, NPV etc.)	NIL	Rs. 3.6 Crore (Approx)	Rs 4.5 Crore (Approx)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	State Road	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	Nil	Nil	Nil
5	<b>Overall Remarks</b>	Preferred route considering nil Forest Involvement	Not Preferred due to forest Involvement	Not Preferred due to forest Involvement

From the above analysis, it is clear that not only the line length of Alternative-1 is lesser than Alternative –II and Alternative-III but it doesn't involve any forest area also, unlike the other two Alternatives which are passing through reserve forest area. Moreover, since Alternative – I is proposed along the state road, lesser degree of Construction, O&M and ROW problems are anticipated. Hence, Alternative-I is found to be most optimum route and recommended for detail survey.

#### 9. Taidu (New) S/s - Teliamura (Existing) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 11 km)			
i	Route Length (km)	13	16	17
ii.	Terrain			
	Hilly (Gentle slope)	70%	80%	90%
	Plain	30%	20%	10%
2.	<b>Environmental impacts</b>			
i	Name of District through which the line passes	Gumti & Khowai	Gumti & Khowai	Gumti & Khowai
ii	Towns in alignment	Nearest town is Teliamura	Nearest town is Teliamura	Nearest town is Teliamura
iii	House within RoW	Nil	Nil	Nil
iv	Forest involvement in Ha/km	Nil	12 KM/18 Ha	15 KM/22.5 Ha
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve/Wetlands or any other environmentally sensitive area.	N/A	Reserved Forest	Reserved Forest
vi	Density of Forests	N/A	Dense	Dense

S.N	Description	Alternative-I	Alternative-II	Alternative-III
vii	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
xi	Any other relevant information	The route is proposed along the State Road.		
3	<b>Compensation Cost</b>			
i	Crop (Non Forest)	7.5 lakhs estimated @ Rs. 0.5 Lakhs per km	2 lakhs estimated @ Rs. 0.5 Lakhs per km	1 lakhs estimated @ Rs. 0.5 Lakhs per km
ii	Forest (CA, NPV etc.)	NIL	Rs. 3.6 Crore (Approx)	Rs 4.5 Crore (Approx)
4.	<b>Major Crossings</b>			
i	Highway (National/State)	State Road	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	Nil	Nil	Nil
5	<b>Overall Remarks</b>	Preferred route considering nil Forest Involvement	Not Preferred due to forest Involvement	Not Preferred due to forest Involvement

From the above analysis, it is clear that not only the line length of Alternative-1 is lesser than Alternative –II and Alternative-III but also it doesn't involve any forest area also, unlike the other two Alternatives which are passing through reserve forest area. Moreover, since Alternative – I is proposed along the state road, lesser degree of Construction, O&M and ROW problems are anticipated. Hence, Alternative-I is found to be most optimum route and recommended for detail survey.

#### 10. Maharani (New) S/s - Garjee (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 12 km)			
i	Route Length (km)	20.104	22	15.5
ii.	Terrain			
	Hilly (Gentle slope)	70%	70%	90%
	Plain	30%	30%	10%
2.	<b>Environmental impacts</b>			

S.N	Description	Alternative-I	Alternative-II	Alternative-III
i	Name of District through which the line passes	Gumti	Gumti	Gumti
ii	Towns in alignment	Udaipur & Amarpur	Udaipur & Amarpur	Udaipur & Amarpur
iii	House within RoW	NIL	NIL	NIL
iv	Forest involvement in Ha/km	NIL	15 KM/ 22.5 Ha	9 KM/13.5 Ha
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve/Wetlands or any other environmentally sensitive area.	N/A	Reserved Forest	Reserved Forest
vi	Density of Forests	N/A	Dense	Dense
vii	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
xi	Any other relevant information	The route has better accessibility.	Accessibility is comparatively poor.	Accessibility is worst.
<b>3</b>	<b>Compensation Cost</b>			
i	Crop (Non Forest)	10.052 lakhs estimated @ Rs. 0.5 Lakhs per km	3.5 lakhs estimated @ Rs. 0.5 Lakhs per km	3.25 lakhs estimated @ Rs. 0.5 Lakhs per km
ii	Forest (CA, NPV etc.)	NIL	Rs. 4.5 Crore (Approx)	Rs 5.4 Crore (Approx)
<b>4.</b>	<b>Major Crossings</b>			
i	Highway (National/State)	Nil	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	Nil	Nil	Nil

S.N	Description	Alternative-I	Alternative-II	Alternative-III
5	<b>Overall Remarks</b>	Preferred route considering nil Forest Involvement	Not Preferred due to forest Involvement	Not Preferred due to forest Involvement

From the above comparative analysis, it is vivid that the line length of Alternative-I is lesser than Alternative –II greater than Alternative-III. However, Alternative –I doesn't involve any forest area, unlike the other two Alternatives which are passing through reserve forest area. Moreover, Alternative – I is having better accessibility due to availability of approach roads, which in turn, is a very supporting factor for Construction and O&M. Hence, Alternative-I is found to be most optimum route and recommended for detail survey.

#### 11. Chittamara (New) S/s - Garjee (New) S/s 33kV line - 19.487 km

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars</b> (Bee Line Length – 15 km)			
i	Route Length (km)	19.487	22.5	20
ii.	Terrain			
	Hilly (Gentle slope)	70%	90%	70%
	Plain	30%	10%	30%
2.	<b>Environmental impact</b>			
i	Name of District through which the line passes	Gumti & South Tripura	Gumti & South Tripura	Gumti & South Tripura
ii	Towns in alignment	Nearest Towns are Udaipur & Belonia	Nearest Towns are Udaipur & Belonia	Nearest Towns are Udaipur & Belonia
iii	Houses within RoW	NIL	NIL	NIL
iv	Forest involvement in Ha/km	15 KM/22.5 Ha	9 KM/13.5 Ha	4 KM/6 Ha
v	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots /Biosphere Reserve/Wetlands or any other environmentally sensitive area.	Reserved Foest (Teliamura-Debtamura RF)	Trishna Wildlife Sanctuary	Trishna Wildlife Sanctuary
vi	Density of Forests	Medium	Dense	Dense
vii	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.



S.N	Description	Alternative-I	Alternative-II	Alternative-III
viii	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix	Endangered species, if any	Nil	Nil	Nil
x	Historical/cultural monuments	Nil	Nil	Nil
xi.	Any other relevant information	The route is proposed partly along the State Road.	Poor Accessibility	
<b>3</b>	<b>Compensation Cost</b>			
i	Crop (Non Forest)	2.24 lakhs estimated @ Rs. 0.5 Lakhs per km	6.75 lakhs estimated @ Rs. 0.5 Lakhs per km	8 lakhs estimated @ Rs. 0.5 Lakhs per km
ii	Forest (CA, NPV etc.)	4.5 Crore	8.39 Crore	3.73 Crore
<b>4.</b>	<b>Major Crossings</b>			
i	Highway (National/State)	Nil	Nil	Nil
ii	Power line	Nil	Nil	Nil
iii	Railway line	Nil	Nil	Nil
iv	River crossing	Nil	Nil	Nil
<b>5</b>	<b>Overall remarks</b>	Preferred route due to non-involvement of Wildlife Area	Not Preferred due to involvement of Wildlife Area	Not Preferred due to involvement of Wildlife Area

From the comparative analysis it is vivid that the line length of Alternative-I is lesser than that of both Alternative-II and Alternative-III. While all the three Alternatives have forest involvement, Alternative – I completely avoids Trishna Wildlife Sanctuary, whereas, other two alternatives are passing through Trishna wildlife area. Additionally, Alternative-I is routed partly along the existing state roads, which provides better accessibility to it. Considering these facts, Alternative-I seems to be the most optimum alternative and recommended for detail survey.

## 12. Ekinpur (New) S/s - Rajnagar (Existing) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
<b>1.</b>	<b>Route particulars (BEE LINE LENGTH :- 14 KM)</b>			
i.	Route Length (km)	18	15.24	15.918
ii.	Terrain			
	Hilly (Gentle slope)	50%	50%	30%
	Plain	50%	50%	70%
<b>2.</b>	<b>Environmental impacts</b>			
i.	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii.	Town in alignment	Nearest town is Belonia	Nearest town is Belonia	Nearest town is Belonia

S.N	Description	Alternative-I	Alternative-II	Alternative-III
iii.	House within ROW	NIL	NIL	NIL
iv.	Forest involvement in Ha/(km)	4 Kms/6 Ha	Nil	NIL
v.	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.		NA	NA
vi.	Density of Forests	HIGH	NA	NA
vii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix.	Endangered species, if any	Nil	Nil	Nil
x.	Historical/cultural monuments	Nil	Nil	Nil
xi.	Any other relevant Information		Poor Accessibility	Better Accessibility
<b>3</b>	<b>Compensation Cost</b>			
i.	Crop (Non Forest)	7 lakhs estimated @ Rs. 0.5 Lakhs per km	7.62 lakhs estimated @ Rs. 0.5 Lakhs per km	7.96 lakhs estimated @ Rs. 0.5 Lakhs per km
ii.	Forest (CA+NPV)	3.7 Crore	Nil	Nil
<b>4.</b>	<b>Major Crossings</b>			
i.	Highway (National/State)	NIL	NIL	NIL
ii.	Power line	NIL	NIL	NIL
iii.	Railway line	NIL	NIL	NIL
iv.	River crossing	NIL	NIL	NIL
<b>5</b>	<b>Overall Remarks</b>	Not Preferred due to involvement of Wildlife area.	Not Preferred due to poor accessibility.	Preferred route considering Nil forest involvement

From the comparative analysis, it is clear that the line length of alternative-III is higher than alternative-II and shorter than alternative-I. However, being the farthest from Trishna Wildlife Sanctuary, without involving any forest, alternative-III has been considered the most feasible, in view of reducing likely impacts on nearby sanctuary. In view of aforesaid facts, alternative –III is recommended for detail survey.

### 13. Srinagar (New) S/s - Manughat (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars (BEE LINE LENGTH :- 9 KM)</b>			
i.	Route Length (km)	16.233	20	15
ii.	Terrain			
	Hilly (Gentle slope)	50%	50%	90%
	Plain	50%	50%	10%
2.	<b>Environmental Impacts</b>			
i.	Name of District through which the line passes	South Tripura.	South Tripura.	South Tripura.
ii.	Town in alignment	Nearest town is Sabroom	Nearest town is Sabroom	Nearest town is Sabroom
iii.	House within ROW	Shall be ascertained during detailed survey	Shall be ascertained during detailed survey	Shall be ascertained during detailed survey
iv.	Forest involvement in Ha/(km)	NIL	NIL	5 Kms/7.5 Ha
v.	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	NIL	NIL	Reserved Forest (Tekka Tulsia R.F)
vi.	Density of Forests	N/A	N/A	HIGH
vii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix.	Endangered species, if any	NIL	NIL	NIL

S.N	Description	Alternative-I	Alternative-II	Alternative-III
x.	Historical/cultural monuments	NIL	NIL	NIL
xi	Any other relevant information	The route has better accessibility.	Accessibility is comparatively poor due to proximity to International Border.	Accessibility is poor.
<b>3</b>	<b>Compensation Cost</b>			
i.	Crop (Non Forest)	8.12 lakhs estimated @ Rs. 0.5 Lakhs per km	10 lakhs estimated @ Rs. 0.5 Lakhs per km	5 lakhs estimated @ Rs. 0.5 Lakhs per km
ii.	Forest (CA+NPV)	Nil	Nil	1.5 Crore (Approx)
<b>4.</b>	<b>Major Crossing</b>			
i.	Highway(NH/SH)	NIL	NIL	NIL
ii.	Power line	NIL	NIL	NIL
iii.	Railway line	NIL	NIL	NIL
iv.	River crossing	NIL	NIL	NIL
5.	<b>Overall Remarks</b>	Preferred Route due to Nil Forest Involvement	Not Preferred due to higher line length and proximity to International border.	Not Preferred due to involvement of Reserve Forest area.

From the above comparative analysis, it is clear that Alternative-III is the shortest route, however, it involves Reserve Forest Area. Alternative-II line length is highest and it is located in the close proximity of India-Bangladesh International border, which may pose certain challenges in line construction as well as, subsequent O&M. In case of Alternative-I, there is no Forest involvement and it has better approach roads. Hence, it is concluded that Alternative-I is found to be most optimum and recommended for detail survey.

#### 14. Srinagar (New) S/s - Satchand (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars (BEE LINE LENGTH :- 13.7 KM)</b>			
i.	Route Length (km)	17.664	15.8	15.5
ii.	Terrain			
	Hilly (Gentle slope)	50%	50%	50%
	Plain	50%	50%	50%
2.	<b>Environmental Impacts</b>			
i.	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii.	Town in alignment	Nearest town is Sabroom	Nearest town is Sabroom	Nearest town is Sabroom
iii.	House within ROW	Shall be ascertained during detailed survey	Shall be ascertained during detailed survey	Shall be ascertained during detailed survey
iv.	Forest involvement in Ha/(km)	NIL	8 KM/12 Ha	9 KM/13.5 Ha

S.N	Description	Alternative-I	Alternative-II	Alternative-III
v.	Type of Forest (RF/PF/Mangrove/ Wildlife Area/ Elephant corridor/ Biodiversity Hotspots/ Biosphere Reserve /Wetlands or any other environmentally sensitive area.	NIL	Reserved Forest (Tekka Tulsi R.F)	Reserved Forest (Tekka Tulsi R.F)
vi.	Density of Forests	N.A.	Medium	Medium
vii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix.	Endangered species, if any	NIL	NIL	NIL
x.	Historical/cultural monuments	NIL	NIL	NIL
xi.	Any other relevant information	The route is proposed along the State road/Village road.		
<b>3</b>	<b>Compensation Cost</b>			
i.	Crop (Non Forest)	0.83 lakhs estimated @ Rs. 0.5 Lakhs per km	3.9 lakhs estimated @ Rs. 0.5 Lakhs per km	3.25 lakhs estimated @ Rs. 0.5 Lakhs per km
ii.	Forest (CA+NPV)		2.4 Crore (Appx)	2.7 Crore (Appx.)
<b>4</b>	<b>Major Crossings</b>			
i.	Highway (National/State)	NIL	NIL	NIL
ii.	Power line	NIL	NIL	NIL
iii.	Railway line	NIL	NIL	NIL
iv.	River crossing	1	1	1
<b>5.</b>	<b>Overall remarks</b>	Preferred route considering Nil forest involvement.	Not Preferred due to forest involvement.	Not Preferred due to forest involvement.

From the above comparative analysis, it is clear that the line length of Alternative-I is more than the other two alternatives studied. However, in case of Alternative-I, there is no forest involvement, whereas, other two alternatives have involvement of reserve forest area. Additionally, Alternative-I is proposed along the existing roads, which provides it with better accessibility, resulting in lesser degree of construction, O&M and

ROW problems. Hence, Alternative-I is found to be most optimum and recommended for detail survey.

### 15. Tapping point of Belonia to Hryshumukh line at Srinagar (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	<b>Route particulars (BEE LINE LENGTH :- 13.5 KM)</b>			
i.	Route Length (km)	15.329	16	17
ii.	Terrain			
	Hilly (Gentle slope)	50%	50%	90%
	Plain	50%	50%	10%
2.	<b>Environmental Impacts</b>			
i.	Name of District through which the line passes	South Tripura	South Tripura.	South Tripura
ii.	Town in alignment	Nearest town is Sabroom	Nearest town is Sabroom	Nearest town is Sabroom
iii.	House within ROW	NIL	NIL	NIL
iv.	Forest involvement in Ha/(km)	NIL	NIL	5 KM/7.5 Ha
v.	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	NIL	NIL	Reserved Forest (Tekka Tulsi R.F)
vi.	Density of Forests	N/A	N/A	HIGH
vii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix.	Endangered species, if any	NIL	NIL	NIL
x.	Historical/cultural monuments	NIL	NIL	NIL
xi.	Any other relevant information	Better Accessibility	Route is located near International Border.	Poor Accessibility
3	<b>Compensation Cost</b>			

S.N	Description	Alternative-I	Alternative-II	Alternative-III
i.	Crop (Non Forest)	7.66 lakhs estimated @ Rs. 0.5 Lakhs per km	8 lakhs estimated @ Rs. 0.5 Lakhs per km	6 lakhs estimated @ Rs. 0.5 Lakhs per km
ii.	Forest (CA+NPV)	Nil	Nil	1.5 Crore (Approx)
<b>4</b>	<b>Major Crossing</b>			
i.	Highway (National/State)	NIL	NIL	NIL
ii.	Power line	NIL	NIL	NIL
iii.	Railway line	NIL	NIL	NIL
iv.	River crossing	NIL	NIL	NIL
<b>5.</b>	<b>Overall Remarks</b>	Preferred Route due to Nil Forest involvement.	Not Preferred due to proximity to International border.	Not Preferred due to involvement of forest area.

From the above comparative analysis, it is clear that Alternative-I is not only shortest in length, but also doesn't involve any forest area, whereas, Alternative-III involves reserve forest area. Alternative-II doesn't involve forest area, but its proximity to India-Bangladesh border presents certain challenges in terms of its execution and subsequent Operation & Maintenance. Hence, it is concluded that Alternative-I is the most optimum route and recommended for detail survey.

#### 16. Rupaichari (New) S/s - Sabroom (New) S/s 33kV line

S.N	Description	Alternative-I	Alternative-II	Alternative-III
<b>1.</b>	<b>Route particulars (BEE LINE LENGTH :- 12 KM)</b>			
i.	Route Length (km)	14.578	18	25
ii.	Terrain			
	Hilly (Gentle slope)	40%	50%	90%
	Plain	60%	50%	10%
<b>2.</b>	<b>Environmental Impacts</b>			
i.	Name of District through which the line passes	South Tripura	South Tripura	South Tripura
ii.	Town in alignment	Nearest town is Sabroom	Nearest town is Sabroom	Nearest town is Sabroom
iii.	House within ROW	NIL	NIL	NIL
iv.	Forest involvement in Ha/(km)	NIL	7 KM/11.5 Ha	10 KM/15 Ha
v.	Type of Forest (RF/PF/Mangrove/Wildlife Area/Elephant corridor/Biodiversity Hotspots/Biosphere Reserve/Wetlands or any other environmentally sensitive area.	NIL	Reserved Forest	Reserved Forest
vi.	Density of Forests	N/A	HIGH	HIGH

S.N	Description	Alternative-I	Alternative-II	Alternative-III
vii.	Type of flora	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> )	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.	Mainly Sal ( <i>Shorea robusta</i> ), Teak ( <i>Tectona grandis</i> ), Rubber ( <i>Hevea Brasiliensis</i> ), <i>Terminalia bellirica</i> , Bamboo ( <i>Bambusa indica</i> ) etc.
viii.	Type of fauna	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow ( <i>Corvus culminates</i> ), Sparrow ( <i>Passer sp</i> ), Fox ( <i>Vulpes benghalensis</i> ) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.
ix.	Endangered species, if any	NIL	NIL	NIL
x.	Historical/cultural monuments	NIL	NIL	NIL
xi.	Any other relevant information	Better accessibility	Poor accessibility	Proximity to International Border
<b>3</b>	<b>Compensation Cost</b>			
i.	Crop (Non Forest)	7.29 lakhs estimated @ Rs. 0.5 Lakhs per km	5.5 lakhs estimated @ Rs. 0.5 Lakhs per km	7.5 lakhs estimated @ Rs. 0.5 Lakhs per km
ii.	Forest (CA+NPV)	Nil	2.3 Crore	3.0 Crore
<b>4</b>	<b>Major Crossing</b>			
i.	Highway (National/State)	NIL	NIL	NIL
ii.	Power line	NIL	NIL	NIL
iii.	Railway line	NIL	NIL	NIL
iv.	River crossing	NIL	NIL	NIL
<b>5.</b>	<b>Overall Remarks</b>	Preferred Route due to Nil Forest Involvement.	Not Preferred due to Forest Involvement	Not Preferred due to forest involvement.

From the above discussion, it is clear that Alternative-I is not only shortest in length but also doesn't involve any forest area, whereas, the other two Alternatives have forest involvement along their route. Additionally, Alternative-I enjoys better accessibility due to better approach roads and paths. Hence, Alternative-I is found to be most optimum and recommended for detail survey.



## **ANNEXURE -2**

### ***DETAILS OF TOWER SCHEDULE OF PROPOSED LINES ROUTE ALIGNMENT***

Proposed 132kV. S/C (On D/C Tower) Transmission Line from BAGAFIA to SAULIYARD  
Detail Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Section Length	Cenu. Dist. (M)	Reduce Level	Weight Span (I)			Weight Span (O)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name	
									Left	Right	Total	Left	Right	Total					
0	GNT	GNT	GNT				0	51.3	0	-192	-192	0	-241	-241	30	15.0	440 Volt Line, 33 KV Line	Bipada	
1	AP01	01/0	DD+03	24°22'53"	R	128	30	52.2	222	244	466	371	356	727	208	104.0	Kunda Road, Pura Road, Ditch 2-son, Pubher Plantation (AP-2 is ABOLISHED)	Bipada	
2	AP1	3/0	DB+00	12°00'11"	R	239	178	208	38.6	66	147	81	-178	168	-10	417	208.5	Agricultural Land, Pura Road, Plantation	Bipada
3	AP4	4/0	DD+03	58°28'07"	R	132	238	447	30.4	92	158	71	87	139	371	185.5	220 Volt Line, Ditch Pura Road 440 Volt Line	Bipada	
4	AP5	5/0	DC-03	27°52'50"	R	140	132	579	30.3	65	107	172	65	133	272	136.0	Agricultural Land, 440 Volt Line (2-Ness)	Bipada	
5	AP6	6/0	DD+00	35°40'44"	R	93	140	719	30.0	33	-50	-16	7	-113	233	116.5	Agricultural Land, Pura Road (AP-7 is ABOLISHED)	Bipada	
6	AP8	8/0	DD+00	37°05'23"	L	100	93	812	35.7	143	133	276	212	193	405	193	96.5	Ditch 2 Nos, 440 Volt Line, Pura Road	Conjocla
7	AP9	9/0	DB+00	12°36'48"	L	121	100	912	30.4	-33	60	27	-93	42	-51	271	135.5	Nallah (2 Nos), 220 Volt Line, 33KV Line	Conjocla
8	AP10	10/0	DC-03	23°23'08"	L	224	171	1063	30.2	111	130	241	129	144	273	395	197.5	30 KV Line, 220 Volt Line, Brick Road	Conjocla
9	AP11	11/0	DB+00	10°12'02"	R	201	224	1307	30.6	94	87	180	80	76	157	425	212.5	Ditch, Agricultural Land, Pura Road, 440 Volt Line	Mahanou
10	AP12	12/0	DD+03	54°55'15"	R	212	201	1508	29.4	114	105	223	125	110	235	413	206.5	33 KV Line, Agricultural Land	Mahanou
11		12/1	DA+03			277		1720	28.0	103	156	250	102	169	271	489	244.5	Agricultural Land	
12		12/2	DA+00			218		1997	28.9	121	107	228	108	106	214	495	247.5	11 KV Line, Agricultural Land	
13		12/3	DA+00			245		2215	29.2	111	123	234	112	123	235	463	231.5	Agricultural Land	
14		12/4	DA+00			245		2460	29.2	122	127	249	122	130	252	490	245.0	Agricultural Land	
15	AP13	13/0	DC+00	29°12'00"	L	295	1197	2705	28.5	118	108	227	115	81	196	540	270.0	Brick Road, Agricultural Land	Mahanou
16		13/1	DB+00	00°00'00"		310		3000	29.7	185	174	360	214	187	401	605	302.5	11 KV Line, Lowgang River, Agricultural Land, 220 Volt Line, Brick Road	Lowgang
17	AP14	14/0	DD-03	36°06'59"	R	605	3310	3310	29.0	136	159	296	123	162	285	621	310.5		

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Srimanta Koley  
Sr. Surveyor  
EMC Limited

For EMC Limited,  
Mithu Dutta  
Project Manager

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(ES)

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Shri R. Ganesh Mond  
Engineer  
POWER GRID CORPORATION OF INDIA LIMITED

Already checked survey on 12/11/18

Approved by  
K. P. Mond  
12/11/18

AP01 - AP13

Proposed 132kV. S/C (On D/C Tower) Transmission Line from BAGAFIA to SATCHAND  
Detail Survey Tower Schedule

Sl No.	AP No.	Loc No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cum. Dist. (m)	Reduce Level	Weight Span(H)			Weight Span(V)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
17	AP14	14/0	DD+03	36°06'59"	R 311	605	3310	19.0	136	159	295	123	162	285	621	310.5	Agricultural Land	Lowgang
18	AP15	15/0	DB+03	13°56'45"	L 244	311	3621	28.2	152	126	278	149	129	278	555	277.5	Agricultural Land	Padlakhor
19		15/1	DA+03				3865	27.5	118	123	241	115	139	254	447	223.5	Agricultural Land	
20	AP16	16/0	DD+00	49°19'17"	L 260	447	4088	27.7	80	99	179	64	77	141	463	231.5	Agricultural Land, 11 KV Line, Pucca Road	Lowgang
21		16/1	DA+06				4328	26.8	161	173	334	183	201	384	530	265.0	Agricultural Land, Bock Road, Ditch 2 Nos.	
22	AP17	17/0	DC+00	25°16'24"	L 264	530	4598	26.3	97	134	231	69	135	204	534	267.0	Agricultural Land, Bock Road	Lowgang
23		17/1	DA+00				4882	25.9	130	133	263	129	138	266	518	259.0	Agricultural Land, Bock Road	
24		17/2	DA+00				5116	24.9	121	117	238	116	105	221	523	261.5	Agricultural Land, Nallah	
25		17/3	DA+03				5365	24.8	152	133	284	164	132	296	638	269.0	440 Volt Line, Kaneta Road, Agricultural Land, Nallah, 11 KV Line, Pucca Road	
26		17/4	DA+03				5654	25.1	136	151	287	137	162	299	538	269.0	Agricultural Land	
27	AP18	18/0	DC+00	38°07'49"	R 270	1323	5923	25.4	119	114	232	107	99	206	539	269.5	Agricultural Land	Lowgang
28		18/1	DA+03				6193	26.0	156	135	291	171	135	306	540	270.0	Agricultural Land, Pucca Road, Proposed O.N.G.C Gas Pipe Line Corridor, 11 KV Line, Mahor, Nallah 2 Nos	
29	AP19	19/0	DD+03	44°16'22"	L 270	540	6463	26.0	135	153	288	135	166	301	539	269.5		Charakhi

Srimanta Koley  
Sr. Surveyor  
EMC Limited.

*[Handwritten Signature]*

For EMC Limited.  
Mithu Dutta  
Project Manager

*[Handwritten Signature]*  
(15)

श्री. गणेश मणि / R. Ganesh Mani  
अभिचार / Engineer

एन.एच. पावर लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED

*[Handwritten Notes]*  
अभिचार के साथ  
9/12/18

Proposed 132KV. S/C (On D/C Tower) Transmission Line from BAGAFI to SATCHAND  
Detail Survey Tower Schedule

Sl No	AP No	Loc No	Type of Tower	Angle of Deviation	Span In Metre	Section Length	Cume. Dist (M)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
29	AP19	19/0	DD+03	44°16'27"	L	540	6483	26.0	135	153	288	135	168	301	539	269.5	Mageri Nallah 2Nos, Agricultural Land, Proposed O.N.C.C Gas Pipe Line Corridor	Chaurabai
30		19/1	DA+00				6732	25.9	116	116	233	103	104	207	537	268.5		
31		19/2	DA+03				7000	25.9	152	153	304	164	166	331	538	268.0	Kanchar Road, Agricultural Land	
32		19/3	DA+00				7268	25.7	115	139	254	102	142	244	538	268.0	Agricultural Land, Birch Road	
33		19/4	DA+06				7538	24.9	129	123	252	126	122	248	518	259.0	Agricultural Land, Nallah	
34		19/5	DA+00				7786	25.2	127	114	241	128	100	228	518	259.0	Agricultural Land	
35		19/6	DA+03				8054	25.6	154	155	309	168	170	338	538	268.0	Agricultural Land, Purca Road, 11 KV Line	
36		19/7	DA+06				8324	25.1	115	108	223	100	106	206	492	246.0	Diach 3 Nos, Agricultural Land	
37	AP20	20/0	DC+00	15°22'20"	R	300	8546	25.5	114	130	244	116	109	225	542	271.0	Agricultural Land	Kusarghal
38		20/1	DB+06	00°00'00"			8886	25.6	190	183	373	211	204	415	630	315.0	Rubber Plantation, Agricultural Land	
39	AP21	21/0	DD+00	37°26'37"	R	310	9176	25.9	127	121	248	106	107	213	582	298.0	Agricultural Land	Nagendra Para
40		21/1	DB+03	00°00'00"			9458	26.5	161	92	253	175	99	234	557	278.5	Agricultural Land, Nallah	
41	AP22	22/0	DD+01	35°43'41"	R	210	9733	24.5	183	184	367	217	241	457	485	242.5	Agricultural Land, Rubber Plantation, 11 KV Line, Purca Road, Tea Garden	Nagendra Para
42	AP23	23/0	DB+00	12°39'55"	L	254	9943	27.0	26	110	137	51	99	68	464	232.0	Agricultural Land, Rubber Plantation	Mahorpur
43	AP24	24/0	DC+03	16°26'53"	L	302	10197	26.7	144	153	297	155	155	310	556	278.0	Agricultural Land, Rubber Plantation	Mahorpur
44	AP25	25/0	DB+03	10°50'16"	R	302	10499	26.2	149	138	287	147	152	299	541	270.5	Birch Road, Agricultural Land	Mahorpur

*[Signature]*  
Srimanta Koley  
Sr. Surveyor  
EMC Limited.

For EMC Limited.  
*[Signature]*  
Mithu Datta  
(Project Manager)

*[Signature]*  
(F.S)

*[Signature]*

श्री. गणेश मणि / R. Ganesh Mani  
अभिज्ञान / Engineer  
तार फिस बाउंडिंग सिस गतिवा सिधिस  
POWER LINE DEPARTMENT OF INDIA LIMITED

Approved for  
Check Survey on 17/5/18  
*[Signature]*

**Proposed 132kV. S/C (On D/C Tower) Transmission Line from BAGAFI to SATCHAND  
Detail Survey Tower Schedule**

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Section Length	Cum. Dist. (m)	Reduce Level	Weight Span (H)			Weight Span (V)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
44	AP25	25/0	DB+H3	10°50'16"	R	302	10489	26.2	149	138	287	147	152	299	541	270.5	Agricultural Land, Ditch, Nallah	Mahoripur
45	AP26	26/0	DO+00	41°41'55"	L	239	10738	26.4	101	119	220	67	117	204	484	242.0	Agricultural Land	Mahoripur
46		26/1	DA+00			215	10883	26.9	126	123	249	128	120	248	500	250.0	Agricultural Land	
47		26/2	DA+00			260	11208	27.5	132	129	261	135	128	263	515	257.5	Can Track, Agricultural Land	
48		26/3	DA+00			260	11498	27.7	131	127	258	132	124	256	520	260.0	Proposed O.N.G.C Gas Pipe Line Corridor, Agricultural Land	
49	AP27	27/0	DD+00	38°25'23"	L	1020	11758	28.2	133	113	247	136	80	216	579	289.5	Proposed O.N.G.C Gas Pipe Line Corridor, Pucca Road, 11 KV Line (2 Nos), 440 Volt Line	Mahoripur
50	AP28	28/0	DC+09	15°12'32"	L	319	12077	28.6	206	150	355	239	183	422	526	263.0	Ditch 2 Nos, Nallah	Mahoripur
51	AP29	29/0	DD+03	39°13'53"	R	207	12284	28.5	57	120	178	24	138	162	399	199.5	Pucca Road, 220 Volt Line, Nallah, Ditch	Mahoripur
52	AP30	30/0	DC+00	25°05'22"	L	192	12476	28.5	72	131	202	54	130	184	455	227.5	Agricultural Land	Mahoripur
53		30/1	DA+00			263	12739	28.7	132	130	262	133	128	261	525	262.5	Agricultural Land	
54		30/2	DA+00			263	13001	28.9	132	126	259	134	123	257	523	261.5	Agricultural Land	
55		30/3	DA+00			261	13282	29.7	135	124	259	138	122	260	516	256.0	Proposed O.N.G.C Gas Pipe Line Corridor, Agricultural Land	
56		30/4	DB+00			285	13517	30.2	131	121	251	133	105	237	540	270.0	Agricultural Land, water pipe line, 11 KV Line, Pucca Road	
57	AP31	31/0	DB+08	05°19'21"	R	1326	13602	31.1	164	139	303	180	116	299	620	310.0	Agricultural Land, Proposed O.N.G.C Gas Pipe Line Corridor, Mahor River, 440 Volt Line	South Mahoripur
58	AP32	32/0	DB+09	13°15'36"	R	335	14137	31.2	186	216	412	217	247	484	679	338.5		South Mahoripur

*(Signature)*  
Sumantra Koley  
Sr. Surveyor  
EMC Limited.

**For EMC Limited.**  
*(Signature)*  
Project Manager

*(Signature)*  
Feb (15)

*(Signature)*  
JIT. Jyoti Singh / R. Ganesh Mann  
Project Engineer  
POWER CORPORATION OF INDIA LIMITED

*(Signature)*  
17/5/18  
for check survey on  
with bearing  
Final + correct  
on 17/5

Proposed 132KV. S/C (On D/C Tower) Transmission Line from BAGAFIA to SATCHAND  
Detail Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Section Length	Came. Dist (M)	Reduce Level	Weight Span (L)			Weight Span (R)			Sum of Adjacent Span	Wind Span	Crossing Details/ Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
58	AP302	32/0	DB+09	13°15'28"	R	344	335	14137	31.2	196	216	412	217	247	464	679	339.5	South Mahoripur
59		32/1	DB+00	00°00'00"				14481	30.7	128	119	248	87	108	205	614	307.0	11 KV Line, Pucca Road
60		32/2	DA+03					14751	30.3	151	151	302	182	163	345	540	270.0	Agricultural Land
61	AP33	33/0	DC+00	25°10'29"	R	270		15021	30.5	119	73	191	107	17	124	570	285.0	Kancha Road, Agricultural Land
62	AP33A	33A/0	DD+09	42°08'37"	R	300		15321	33.3	227	85	312	283	83	366	474	237.0	Agricultural Land, 220 Volt Line (3 Nos.), Pucca Road
63	AP33B	33B/0	DD+09	41°09'37"	L	174		15435	33.6	89	224	314	91	327	418	338	169.0	RAISED CHIMNEY - 3.0m.
64	AP33C	33C/0	DD+00	48°16'11"	L	164		15659	30.7	60	132	72	-163	132	-31	427	213.5	Agricultural Land, 11 KV Line, Pucca Road
65		33C/1	DA+00					15922	30.6	131	118	249	131	106	236	533	268.5	RAISED CHIMNEY - 3.0m.
66		33C/2	DA+00					16192	30.5	162	107	269	164	105	269	489	244.5	Construction N.F Railway Line (Agricola to Satnam) Ditch
67	AP34	34/0	DD+03	57°49'27"	R	219		16411	30.9	112	155	267	114	152	286	539	288.5	RAISED CHIMNEY - 3.0m.
68	AP34A	34A/0	DC+03	17°02'16"	L	244		16731	31.9	165	117	282	168	114	282	564	282.0	Proposed O.N.G.C Gas Pipe Line Corridor
69	AP35	35/0	DC+03	21°30'25"	R	373		16976	32.7	127	153	280	130	129	259	617	308.5	Agricultural Land, 220 Volt Line
70	AP36	36/0	DC+09	20°18'48"	L	373		17348	34.7	220	164	384	244	160	404	712	356.0	2 Nos. Pucca Road

Handwritten notes: "Crossing to Proposed to be added - H"

Srimanta Koley  
Sr. Surveyor  
EMC Limited.

For EMC Limited,  
Mithu Dutta  
(Project Manager)

Handwritten initials: "D.K. (F.S.)"

Handwritten signature: "R. Ganesh Mani"

POWER GRID CORPORATION OF INDIA LIMITED

Handwritten notes: "Approved by...", "17/5/18", "for Rail line", "11 KV S.C.", "11 KV S.C."

Proposed 132kV. S/C (On D/C Tower) Transmission Line from BAGAFIA to SATICHAND  
Detail Survey Tower Schedule

Sl No.	AF No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Section n Length	Cum. Dist. (m)	Reduce Level	Weight Span (L)			Weight Span (R)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name	
									Left	Right	Total	Left	Right	Total					
70	AP36	36/0	DC-09	20°18'48"	L	339	17340	34.7	220	164	384	244	180	404	712	358.0	Karchu Drain, Agricultural Land	Remaneri	
71	AP37	37/0	DC-09	26°57'39"	L	339	17687	35.9	175	168	343	179	166	348	677	334.5	Agricultural Land, Rubber Plantation, Furca Drain, Furca Road	Sathiyavakar	
72	AP38	38/0	DD+03	37°20'19"	L	338	18025	42.2	170	167	337	172	202	374	574	287.0	Agricultural Land, Rubber Plantation	Sathiyavakar	
73		38/1	DB+00	00°00'00"	L		18261	37.9	89	115	185	34	116	151	463	231.5	Agricultural Land, Proposed O.M.C.C Gas Pipe Line Corridor, Nalab	Ramzanbari	
74		38/2	DA+00																
75	AP39	39/0	DD-03	49°28'34"	R	345	18488	37.6	112	110	222	111	101	212	472	238.0	Agricultural Land		
76	AP40	40/0	DD-00	33°51'30"	L	192	18733	36.6	135	115	250	144	128	272	437	218.5	Agricultural Land	South Hinchabara	
77	AP41	41/0	DB+00	07°54'02"	R	309	18925	37.3	77	33	110	63	55	8	501	250.5	Agricultural Land, Rubber Plantation	South Hinchabara	
78	AP42	42/0	DC-06	18°14'55"	L	257	19234	62.7	276	147	423	364	160	524	666	283.0	Rubber Plantation, Furca Road 220 Volt Line, Forest Area	Tarachandara Para	
79	AP43	43/0	DD-00	28°03'05"	R	300	19491	54.7	110	91	202	97	49	147	557	278.5	Forest Area, C.P.D = 2.5m, Rubber Transition	Tarachandara Para	
80	AP44	44/0	DB+03	09°18'33"	L	365	19791	63.4	209	184	403	251	262	513	500	250.0	Forest Area, Ditch, Rubber Transition	Tarachandara Para	
81	AP45	45/0	DD-00	28°03'05"	R	365	19991	57.4	6	189	205	-62	212	149	565	282.5	Forest Area, C.P.D = 1.0m.	Tarachandara Para	

*Handwritten notes:*  
Hold for  
already approved  
for check survey on 10/11/18.

**Srimanta Koley**  
Sr. Surveyor  
EMC Limited

**For EMC Limited.**  
Mithu Dutta  
(Project Manager)

*Handwritten signature:* J.P.P. (5-17)

श्री. गणेश शर्मा / R. Ganesh Mani  
अभियंता / Engineer  
पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED

*Handwritten signature:* 32. DIV

*Handwritten notes:*  
Already approved for check survey on 10/11/18.  
Hold breaking down for  
Further clearance  
Mithu Dutta  
AP 42 - 800V  
17/11/18

Proposed 132kV. S/C (On D/C Tower) Transmission Line from BAGAF A to SATCHAND  
Detail Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Sectio n Length	Canno. Dia. (mm)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details/ Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
81	AP44	44/0	DB-03	0°00'33"	246	365	20356	51.5	166	280	416	153	330	484	613	306.5	CFD = 1.0m. NH-8, 11kV 1.5m XP CFD = 2.0m.	Tarachandra Pura
82	AP45	45/0	DB+03	10°47'59"	246	248	20604	35.2	2	83	91	-82	81	-1	474	237.0		
83		45/1	DB+03		226		20830	36.6	133	122	255	145	119	264	480	240.0		
84		45/2	DB+00	0°00'00"	254		21084	39.3	132	95	227	135	75	210	507	253.5		
85	AP46	46/0	DB+06	44°16'37"	253	733	21337	36.2	158	228	386	178	263	441	589	289.5	RT. 66kV Line CFD = 0.5m.	
86		46/1	DB+06		246		21693	28.2	118	108	226	83	95	178	600	300.0	RT. 66kV Line CFD = 1.0m.	
87		46/2	DB+03		254		21937	32.9	145	228	374	158	275	434	661	280.5		
88		46/3	DB+03		307		22244	21.2	79	83	162	32	39	70	613	306.5		
89	AP47	47/0	DB+00	05°37'18"	306	1213	22550	35.0	223	105	329	267	109	376	511	255.5		

Handwritten notes: *Handwritten*, *Proposed*, *to be done*

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Srimanta Koley  
Sr. Surveyor  
EMC Limited.

For EMC Limited.  
Mithal Das  
Project Manager

Handwritten initials/signature

Handwritten signature

JIT. Jyoti Koiri / R. Ganesh Mani  
अभिज्ञान / Engineer  
शक्ति बिजली निगम लिमिटेड  
POWER GRID CORPORATION OF INDIA LIMITED

Handwritten notes: *Approved for*, *Check Survey*, *AP47-AP45*, *AP46-AP47*, *AP46-AP47*, *AP46-AP47*, *AP46-AP47*



Proposed 132kV S/C (On D/C Tower) Transmission Line from BAGAFI to SATCHAND  
Detail Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cume. Dist. (M)	Reduce Level	Weight Span (U)			Weight Span (C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
89	AP47	47/0	DB+00	05°55'18"	R	1213	22650	35.0	223	106	329	267	109	376	511	285.5		Shaktari
90	AP49	49/0	DC+00	16°33'08"	R	205	22765	34.5	99	83	182	96	84	180	368	184.0	Agricultural Land, AP 49 is ABOLISHED	Shaktari
91	AP50	50/0	DC+00	16°21'46"	L	163	22918	34.4	80	78	158	79	61	140	384	182.0	Agricultural Land, Nallah	Shaktari
92	AP51	51/0	DB+03	11°40'29"	R	201	23119	34.3	123	120	243	140	122	262	435	218.0	Brick Road, 220 Volt Line, Agricultural Land	Shaktari
93	AP53	53/0	DC+03	18°13'01"	L	235	23354	33.9	115	166	281	113	178	291	533	286.5	Agricultural Land, Brick Road, 11KV Line	Shaktari
94	AP53	53/0	DC+00	22°15'01"	R	298	23852	33.7	132	135	267	120	138	258	557	278.5	Agricultural Land, Nallah	Shaktari
95		53/1	DA+00				23911	32.9	124	118	243	121	107	227	528	264.0	Agricultural Land	
96		53/2	DA+03				24180	32.7	151	155	306	162	170	333	638	289.0	Agricultural Land, Nallah	
97	AP54	54/0	DC+00	23°11'57"	L	797	24448	32.1	114	109	223	99	112	211	479	239.5	Agricultural Land, Nallah	North Barroll
98	AP55	55/0	DB+00	12°39'27"	R	210	24659	31.6	101	55	156	98	58	156	311	155.5	220 Volt Line, Pucca Road, Nallah, Rubber Plantation	North Barroll
99	AP56	56/0	DD+00	52°10'50"	R	101	24760	31.3	48	109	155	43	73	116	418	209.0	Ditch, Agricultural Land	North Barroll
100	AP57	57/0	DB+00	07°23'42"	R	317	26077	41.3	208	172	380	244	239	483	473	236.5	Rubber Plantation, Pucca Road, Nallah, 11 KV Line	Kalbaria
101	AP58	58/0	DD+00	43°23'00"	L	156	26233	32.0	10	90	75	83	92	8	333	168.5		Nallah

*[Handwritten signature]*

Srimanta Koley  
Sr. Surveyor  
EMC Limited.

For EMC Limited.  
Mithu Dutta  
Project Manager

*[Handwritten signature]*  
(E.S.)

श्री. गणेश मणि / R. Ganesh Mani  
श्री. गणेश मणि / Engineer  
श्री. गणेश मणि और श्री. गणेश मणि  
POWER GRID CORPORATION OF INDIA LIMITED

*[Handwritten signature]*

*Approved  
for check survey  
on 13/5/18*

*[Handwritten signature]*

Proposed 132KV. S/C (On D/C Tower) Transmission Line from BAGAFIA to SATCHAND  
Detail Survey Tower Schedule

Sl No	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Meter	Sag in Length	Gum. Dist. (M)	Reduce Level	Weight Span (H)			Weight Span (G)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	Village Name
									Left	Right	Total	Left	Right	Total				
101	AP38	38/0	DD+00	43°23'00"	L	156	25233	31.0	-16	90	75	-33	92	6	333	166.5	Ditch, 220 Volt Line, Agricultural Land	Mirra
102	AP39	39/0	DD+00	33°01'12"	L	177	25410	31.8	87	83	170	85	70	155	380	190.0	Ditch, 220 Volt Line, Agricultural Land	Mirra
103		39/1	DA+03				25613	31.1	120	118	237	133	108	241	465	232.5	brick Road, 220 Volt Line, Agricultural Land	
104	AP40	40/0	DD+06	34°31'54"	L	465	25875	30.4	144	138	282	154	143	297	523	261.5	Agricultural Land, Rubber Plantation Nallah, brick Road	Shivamundapur
105	AP41	41/0	DD+06	49°10'21"	R	261	26136	29.2	123	176	299	118	182	280	652	326.0	Agricultural Land, Rubber Plantation, Pucca Road, 440 Volt Line, 11 KV Line	Shivamundapur
106	AP42	42/0	DD+03	47°08'21"	R	391	26527	37.1	215	210	426	229	203	432	832	416.0	Agricultural Land, Rubber Plantation, Brick Road, Kalapaniya Nallah	Shivamundapur
107	AP43	43/0	DD+06	33°33'14"	L	441	26998	42.9	231	127	357	238	111	349	738	369.0	Agricultural Land, Kalapaniya Nallah	Shivamundapur
108	AP44	44/0	DC+00	17°20'08"	R	297	27285	47.0	170	196	366	186	231	417	593	296.5	Kanchar Road, Rubber Plantation, Pucca Road, RF	Shivamundapur
109	AP44A	44A/0	DC+00	18°13'54"	L	295	27561	38.0	100	168	267	65	199	204	711	355.5	Rubber Plantation, Ditch, 220 Volt Line, Agricultural Land	Ranggu
110	AP45	45/0	DS+00	04°47'42"	R	415	27978	39.5	247	168	413	276	175	451	723	361.5	Rubber Plantation, Agricultural Land, Nallah	Ranggu
111	AP46	46/0	DD+00	33°03'10"	L	308	28284	37.2	142	196	338	133	222	356	625	312.5	Rubber Plantation, brick Road, Agricultural Land	Ranggu
112	AP47	47/0	DD+09	59°54'12"	R	317	28601	29.2	121	231	352	95	270	364	670	335.0	RF, Pucca Road, 33kV Line, LT Line, Pond, Rubber plantation	Sundhahari
113	AP48	48/0	DD+00	58°48'57"	R	353	28854	26.5	122	65	208	63	82	165	533	266.5	CPD = 1.0m, RAISED CHINNT = 1.0m	Kalapaniya
114	AP49	49/0	DD+00	56°40'23"	R	180	29134	27.1	95	45	140	98	37	136	290	145.0	Agricultural Land	Kalapaniya
115	AP70	70/0	DD+00	43°49'25"	L	110	29244	27.8	65	-207	-142	73	-391	-318	205	102.5	Agricultural Land, brick Road, Rubber plantation	Kalapaniya
116	AP70A/0	70A/0	DC+00	24°21'33"	L	95	29339	44.2	302	189	491	456	302	788	161	80.5	CPD = 1.0m, Agricultural Land, brick Road, Rubber plantation	Kalapaniya
117	AP71	71/0	DD+00	34°18'36"	R	66	29405	36.6	-123	-36	-159	-236	-100	-337	172	86.0	CPD = 1.0m, Rubber plantation	Kalapaniya
118	AP72	72/0	DD+03	14°14'21"	R	106	29511	41.6	142	-80	62	206	-150	58	138	69.0	Rubber plantation	Kalapaniya
119	GNT	GNT	GNT			32	29543		112	0	112	182	0	182	32	16.0	Agricultural Land, boundary Wall	Kalapaniya

Srimanta Koley  
Sr. Surveyor  
EMC Limited

For EMC Limited.  
Mithu Mishra  
Project Manager

30.01.24  
30.01.24

श्री. गणेश मन्डल / R. Ganesh Mandl  
श्री. गणेश मन्डल / Engineer  
श्री. गणेश मन्डल / Engineer  
POWER GRID CORPORATION OF INDIA LIMITED

Always approved for  
Grade Survey in 1915/16  
Grade R/A & location - AP  
from P/4/16 - 4/17-1  
for AP 71 - 4/17-1  
of 1915/16

*Handwritten signature*

NAME OF CLIENT : POWER GRID CORPORATION OF INDIA LIMITED

132 KV D/C UDAIPUR - BAGAF A T/L

CHECK SURVEY REPORT FROM AP-06/0 TO AP-08/0 (1.217 KM)

AS PER DETAIL SURVEY						AS PER CHECK SURVEY												
SL. NO	AP NO.	LOC NO	TYPE OF TOWER	ANGLE OF DEVIATION	SPAN IN METER	SECTION LENGTH	CUMULATIVE ECHAINAGE	SL. NO	AP NO.	LOC NO	TYPE OF TOWER	ANGLE OF DEVIATION	SPAN IN METER	SECTION LENGTH	CUMULATIVE ECHAINAGE	BENCHING & RETVEMENT	CROSSING DETAILS/REMARKS	Village Name
1	AP06	6/0	DC-09	22°11'08"RT	491		0	1	AP06	6/0	DC-09	22°11'08"RT	491		0		Rubber Plantation/Agricultural Land	Satrapthik
2	AP07	7/0	DO-09	35°25'53"LT	370	491	491	2	AP07	7/0	DO-09	35°25'53"LT	370	491	491	PROPOSED FOR BENCHING	C.P.D = 1.5m Fucca Road (2 Nos.), Nallah, Rubber Plantation, 220 Volt Line	Satrapthik
3	AP07A	7A/0	DB-09	03°28'30"LT	356	370	861	3	AP07A	7A/0	DB-09	03°28'30"LT	356	370	861		Rubber Plantation, Fucca Road	
4	AP08	8/0	DD-03	32°55'06"LT	356	356	1217	4	AP08	8/0	DD-03	32°55'06"LT	356	356	1217	PROPOSED FOR BENCHING	C.P.D = 1.5m	Futkumbh

\*Benching & Retevment will be proposed later

As per detail survey	As per check survey
DA TYPE-00 NOS	DA TYPE-00 NOS
DB TYPE-01 NOS	DB TYPE-01 NOS
DC TYPE-01 NOS	DC TYPE-01 NOS
DD TYPE-02 NOS	DD TYPE-02 NOS
Total section length- 1.217 KM	Total section length- 1.217 KM

*Handwritten signature*  
Srimanta Koley  
Sr Surveyor  
EMG Limited.

**For EMG Limited.**  
Mithu Dutta  
(Project Manager)

Rojin Sinha  
Site Supervisor / FIELD SUPERVISOR  
132 KV D/C / POWER GRID  
132 KV UDAIPUR T/L

N.B:-  
Comparison statement between  
Benching & U/L has to be submitted  
as per T.S., then we can proceed  
with it. It is not correct.

M. R. SAH  
Sr. Manager  
EMG / POWERGRID  
B-9, 61, Sector 1, WER, UDAIPUR

## **ANNEXURE –3**

***TSECL Letter dated 7<sup>th</sup> Sept.'2018 to MoP  
regarding RoW Compensation***

**TRIPURA STATE ELECTRICITY CORPORATION LIMITED**

(A Govt. of Tripura Enterprise)



No. F.1(2)/DT/TSECL/2018/24194

Dated, Agartala, the 7 September, 2018

To  
The Joint Secretary (Trans),  
Ministry of Power,  
Govt. of India,  
Rafi Marg, Shram Shakti Bhawan, New Delhi 110001.

Sub: - Adoption of MoP, Gol guidelines for payment of compensation towards damage in regards to RoW for Transmission lines. – reg.

Sir,

This is to inform you that Govt. of Tripura has decided for continuing with the prevailing practice of payment of compensation towards damage in regards to RoW for Transmission lines as mentioned here-under :

- i) 100 % land value is compensated for tower base affected area as per rate assessed by the District Administration of State Govt. Apart from this if there be any damage to tree/crops/ structure in the said area, compensation to the occupier / land owner for the damage in the tower base area is also paid as per State Govt. approved rates. In areas where Land owner does not allow to erect towers, the required land is acquired through acquisition process / purchased through Land Purchase Committee as per norms of State Govt.
- ii) If there be any damage to tree/crops/ structure in the Corridor of width of Right of Way between the towers, compensation for the same is paid to the owner as per rate approved by the State Govt.
- iii) No compensation is paid for the Corridor of land in the width of Right of Way between the towers at present.

Recommendations of the Guidelines issued by Ministry of Power, Govt. of India vide letter dated 15.10.2015 regarding payment of compensation towards damage in regards to RoW for Transmission lines will not be feasible to transmission line developmental activities in the State of Tripura.

This is for favour of your kind record please.

Yours faithfully,

(M. Debbarma)

Director (Technical)  
TSECL, Agartala.

## DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তব্য সভার বিবরণ

<b>Subject/ বিষয়</b>
Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur - Bagafa Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project  NERPSIP প্রকল্পের আওতায় (বিশ্ব ব্যাংকের আর্থিক সহায়তায়) 132kV উদয়পুর- অমরপুর, 132kV উদয়পুর -বাগাফা পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ
<b>Place of Meeting/সভার স্থান</b>
Matabari RD Block(BDO Office Conference Hall)/ মাতাবারী ব্লক (BDO অফিস কনফারেন্স হল)
<b>Date of Meeting/সভার তারিখ</b>
20.09.2014 / ২০.০৯.২০১৪
<b>Name of the dignitary present in the meeting/ সভায় উপস্থিত মর্যাদাপূর্ণ ব্যক্তিদের নাম</b>
<b>A. Tripura Government/ ত্রিপুরা সরকার</b> 1) Smt. Nivedita Bhaumik, BDO 2) Sri Roy Ramkrishna Bhowmik, Chairman 3) Sri Madhusudan Bhowmik, Vice-Chairman 4) Sri Daharam Reang, BAC Chairman
<b>B. TSECL Officials/ TSECL কর্মকর্তারা</b> 1. Sh. Ratan Das, DGM,TSECL
<b>c. POWERGRID Officials/ পাওয়ার গ্রিড কর্মকর্তারা</b> 1. Sh. N. Dube, DGM, POWERGRID 2. Sh. D.N.Brahma, Chief Manager, POWERGRID 3. Sh. Uttam Debnath, Sr. Engineer, POWERGRID
<b>People present in the meeting/ সভায় উপস্থিত জনসাধারণ</b>
150-200 nos. of local village and some common public .(Attendance Sheet Enclosed) 150-200 জন স্থানীয় গ্রাম এবং কিছু সাধারণ পাবলিক ( উপস্থিত ব্যক্তিবর্গের সাক্ষর )

**Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:**

A brief of the NORTH EASTERN REGION POWER SYSTEM IMPLEMENTATION PROJECT(NERPSIP) under the world bank assistance has been deliberated at the beginning of the meeting by Sh. Rattan Das, DGM,TSECL. Importance & necessity of the project, necessity for upgradation of existing transmission & distribution network, various environment & Social issues associated with the project have been briefly discussed and appraised to the public present in the meeting.

আলোচনা সভার শুরুতে TSECL এর ডেপুটি জেনারেল ম্যানেজার শ্রী রতন দাস মহাসয় বিশ্ব ব্যাংকের আর্থিক সহায়তায় উত্তর পূর্ব ক্ষেত্র বিদ্যৎ বাবস্থা উন্নতিকরণ প্রকল্প(NERPSIP) সমন্ধে জনসাধারণের উদ্দেশ্যে সংক্ষিপ্ত তথ্য দিলেন । তাছাড়া প্রকল্পের প্রয়োজনীয়তা ও গুরুত্ব, বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন এর ক্ষমতা বৃদ্ধির প্রয়োজনীয়তা, প্রকল্পের সঙ্গে যুক্ত বিভিন্ন পরিবেশ ও সামাজিক বিসয়, সমন্ধে সংক্ষিপ্ত জানামল্লানা উত্থাপন করলেন উপস্থিত জনসাধারণের উদ্দেশ্যে ।

**Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া**

Representatives from the public also responded and raised various concerns about the project. The various issues raised by public are summarised as below:-

- ❖ What is compensation policy for the standing crops damaged and compensation for the land occupied by the tower footings
- ❖ What about employment for local people and procedure for same
- ❖ What is the width of ROW for cutting trees? How much compensation for the trees will be given and when.

জনসাধারণের পক্ষ্য থেকেও প্রতিনিধিরা প্রতিক্রিয়া এবং প্রকল্প সম্পর্কে বিভিন্ন উদ্বেগ উত্থাপিত করলেন । জনসাধারণ দ্বারা উত্থাপিত কিছু গুরুত্বপূর্ণ বিষয় নীচের সংক্ষিপ্ত করা হলো :-

- ❖ ক্ষতিগ্রস্ত ফসলের ক্ষতিপূরণের জন্য ক্ষতিপূরণ নিয়ম কি হবে এবং টাওয়ার বানানোর জন্য যে জমি লাগবে তার ক্ষতিপূরণের কি নিয়ম হবে ?
- ❖ এই প্রকল্পের জন্য স্থানীয় মানুষ এর কর্মসংস্থান এবং নিয়োগ নীতির কি নিয়ম হবে ?
- ❖ লাইন বানানোর সময় গাছ কাটার করিডোর/প্রস্থ কি হবে ? কখন এবং কি পরিমাণ ক্ষতিপূরণ দেওয়া হবে গাছের জন্য ?

## Conclusion/ উপসংহার

However all the public present have unanimously agreed to the necessity and importance of the project and assured their co-operation during the implementation of the project.

TSECL/POWERGRID has assured that all the genuine issues will be duly taken care of during the implementation of the project. Furthermore

- ❖ For damaged crops,trees sufficient compensation will be given as per the rate provided by district revenue authority. Further no land will be accrued while constructing the tower but sufficient surface compensation will be provided.
- ❖ Local people will be engaged during the construction of line and the engagement will be as per their skill.
- ❖ The width of ROW of cutting trees will be 27 M and sufficient compensation will be given as per the rate provided by district revenue authority during the construction.

The meeting has been concluded with a request to all public for their support in completion of the project.

তবে সবশেষে উপস্থিত জনসাধারণ সর্বসম্মতিক্রমে প্রকল্পের প্রয়োজনীয়তা এবং গুরুত্ব নিয়ে একমত প্রকাশ করেছেন এবং প্রকল্প বাস্তবায়ন সময় তাদের সহযোগিতা নিশ্চিত করেছেন ।

TSECL / পাওয়ার গ্রিড কর্মকর্তারা সমস্ত বাস্তব সমস্যা উপর প্রকল্প বাস্তবায়নের সময় যথাযত নজর দেয়ার আশ্বাস দিয়েছেন. জনসাধারণের প্রশ্নের উত্তরে POWERGRID/TSECL কর্মকর্তারা বলেন

- ❖ ক্ষতিগ্রস্ত ফসলের ও গাছ এর জন্য জেলা রাজস্ব কর্তৃপক্ষ দ্বারা উপলব্ধ হার অনুযায়ী ক্ষতিপূরণ দেওয়া হবে । টাওয়ার বানানোর জন্য কোনো জমি অধিগ্রহণ করা হবে না কিন্তু টাওয়ার বানানোর ফলে যে গাছ বা ফসল ক্ষতি হবে তার ক্ষতি পূরণ দেওয়া হবে
- ❖ প্রকল্পের কাজের রূপায়নের সময় গ্রামের তথা স্থানীয় কারিগর/ শ্রমিক দের তাদের যুগ্যতা অনুযায়ী নিয়োগ করা হবে
- ❖ লাইন বানানোর সময় গাছ কাটার প্রস্থ হবে ২৭ মিটার এবং ক্ষতিগ্রস্ত গাছ এর জন্য জেলা রাজস্ব কর্তৃপক্ষ দ্বারা উপলব্ধ হার অনুযায়ী ক্ষতিপূরণ দেওয়া হবে ।

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনুরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে



**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDANCE SHEET**

**Name of Line:-** Bagafa Line & associated distribution lines (with financial assistance of WORLD BANK) under NERPSIP Project

**Date:-** 10.09.2014

**Venue- MATABARI**

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
1	Chameli Das	Pitua	H/W	Chamelibas.
2	Malati Nandi	Pitua	H/W	Malati Nandi
3	Kajal Rani Das	Rajnagar	H/W	Kajal Rani Das
4	Jabbar Miya	Rajnagar	Business	Jabbar Miya
5	Harun chandra Das	Putamati	Teacher	Harun ch. Das.
6	Selinara Begam	Putamati	upa Pradhan	Selinara Begam
7	Putul Dey	Putamati	H/W	Putul Dey
8	Nand Lal Adhikari	Putamati	Panchayat member	Nand Lal Adhikari
9	Manju Dey	Kilpara	H/W	Manju Dey.
10	Purnima Chakraborty	Kilpara	H/W	Purnima Chakraborty
11	Harun ch. Paul	Lakshmi pati	Farmer	Harun ch. Paul
12	Milan Sarkar	Putamati	Business	Milan Sarkar

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDENCE SHEET**

**Name of Line:-** Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur - Bagafa Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project

**Date-** 20.09.2014

**Venue-** MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
13	Sajal Paul	Purba Kunjaban	business	Sajal Paul
14	Setal ch. Sarkar Das.	Purba Kunjaban.	Farmer.	Setal Ch. Sarkar Das
15	Depali Das	Purba Kunjaban	H/W	Depali Das
16	Bhela kanti Debbarma	Purba Kunjaban.	H/W	Bhela kanti Debbarma
17	Apu Shil	Uttar Chandrapur	H/W	Apu Shil
18	Chaya Rani Das .	Matabari	H/W	Chaya Rani Das.
19	Pratap chakraborty	- Do -	business	Pratap Chakraborty
20	Sukumar Debbarth	Petra		Sukumar Debbarth
21	Suparna Das	- Do -		Suparna Das
22	Anil Das	U. Chandrapur	Pradhan	Anil Kanti Das
23	Mithu Das Laskar	1)		Mithu Das (Laskar)
24	Kalpana Majumdar			Kalpana Majumdar

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDENCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur -  
Name of Line:- Bagafa Line & associated distribution lines(with financial  
assistance of WORLD BANK) under NERPSIP Project

Date- 20.04.2019

Venue- MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
25	Sepali Das	w. Runjaban		
26	Sepali Das	- Do -		
27	Relu Das	- Do -		
28	Purabi Saha	- Do -		
29	Manika Majumdar (Sarkar)	Matabari		Manika Majumdar (Sarkar)
30	Archana Debnath	- Do -		Archana Debnath
31	Sahalan Nija Sarkar	Uttar Maharan	Member	
32	Kalipa Kathan	- Do -		
33	Skyamal Majumdar	Portamati	proclam.	Skyamal Majumdar
34	Ratna Majumdar	v. Matabari		Ratna Majumdar (Das)
35	Manidar Begam	w. Kelpara		Manishar Begam
36	Ranu Acha	w. Do -		Ranu Acha

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDANCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur

Name of Line:- - Bagafa Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project

Venue- MATABARI

Date- 20.07.2014

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
37	Habit Mija.	W. Kelpara.	member.	
38	Sabita Manna	Matabari Gno.		
39	Kela Sarkar Das	Ful Kumari		Khela Sarkar (Das).
40	Sujan Day.	Matabari.		
41	Lakshmi Chakraborty	S- Do-		Lakshmi Chakraborty
42	Pran Krishna Das.	S- do.		
43	Abhisit Datta.			Abhisit Datta.
44	Mithu Rani Das.	Rajnagar		Mithu Rani Das
45	Anima Das.	- Do -		Anima Das
46	Mime Rani Das. Baru	- Do -		Mime Rani Das (B.)
47	Gouri Rani Singh.	Maharani		Gouri Rani Singh
48	Lakshmi Das.	- Do -		Lakshmi Das

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
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**Public Consultation Meeting**  
**ATTENDENCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur -  
Name of Line:- Bagafa Line & associated distribution lines(with financial  
assistance of WORLD BANK) under NERPSIP Project

Date- 20.09.2014

Venue- MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
49	Prabal Ghosh	Matabari		Babur Chandra Ghosh
50	Dulal Majumdar	- DO -		Dulal Majumdar
51	Sabiya Bibi	- DO -		Sabiya Bibi
52	Nareesh Chakraborty	- DO -		Nareesh Chakraborty
53	Hemangshu Das	- DO -		Hemangshu Das
54	Sefali Patha	Kelpara		Sefali Patha
55	Chinda Hazari Das	Matabari		Chinda Hazari Das
56	Runi Nag	Pul Kumari		Runi Nag
57	Goparani Das	- DO -		Goparani Das (Sarkar)
58	Durakani Dey	- DO -		Durakani Dey
59	Paditra Majumdar	- DO -		Paditra Majumdar
60	Subash Sharma	S. Matabari		Subash Sharma



**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
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**Public Consultation Meeting**  
**ATTENDANCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line, 132kV Udaipur  
Name of Line:- Bagafa Line & associated distribution lines(with financial  
assistance of WORLD BANK) under NERPSIP Project

Venue- MATABARI

Date- 20.09.2014

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
64	Pradip Sil	Uttar Chandrapur		Pradip Sil
65	Dulali Dey Deb	"		Dulali Dey (Deb)
66	Dipali Banik Das	"		Dipali Banik Das
67	Rafik Mia	"		Rafik Mia
68	Swapan Ch. Majumdar	Pitua		Swapan Ch. Majumdar
69	Narresh Ch. Das	- Do -		Narresh Ch. Das
70	Biswajit Bhownik	Laxmipati		Biswajit Bhownik
71	Abul Basar	Uttar Maharani		Abul Basar
72	Rabindra Kr Das	- Do -		Rabindra Kr Das
73	Abdul Hanif	- Do -		Abdul Hanif
74	Rutik Mah	- Do -		Rutik Mah
75	Jharna Debnath	"		Jharna Debnath

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDANCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line, 132kV  
**Name of Line:-** Udaipur - Bagafa Line & associated distribution lines (with  
financial assistance of WORLD BANK) under NERPSIP Project

**Date-** 20.04.2019

**Venue-** MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
76	Prana Rani Dhaty	Uttara Mahasani		Prana Rani Dhaty
77	Shipra Datta	Uttara Mahasani		Shipra Datta
78	Inam Uddin	Kulpara		Inam Uddin
79	Uma Sankar Ghosh	"		Umarenker Ghosh
80	Sohan Mia	"		Sohan Mia
81	Nepal Ch Das	Pitra		Nepal Ch Das
82	Mahitaj Begam	- Do -		Mahitaj Begam
83	Pran Krishna Das	Matabari		Pran Krishna Das
84	Ashenjita Kar Sankar	Rajnagar		Ashenjita K. Sankar
85	Swarna Bhattacharya	"		Swarna Bhatt Chatterjee
86	Sabitri Chakraborty	Laxmibati		Sabitri Chakraborty
87	Sabita Das	"		Sabita Das



**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



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**ATTENDENCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line ,132kV Udaipur  
**Name of Line:-** - Bagafa Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project

**Date-** 20.09.2014

**Venue-** MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
88	Sukla Ranj Yugi	Laxmibati		
89	Rina Sarkar.	Maharaj		
90	Sadhana Das	"		
91	Roy Satyajit Bhowmik	"		
92	Akkase Miah	"		
93	Jatan Ch. Bhowmik	"		
94	Biswanandhu Datta	South Matabari		
95	Dipak Roy	Pitra		
96	Kuntal Das	South Matabari		
97	Ranjit Choudhary	Pitra		
98	Bi plab Dey	Darshin Matabari		
99	Giribala Das.	Matabari		

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
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**Public Consultation Meeting**  
**ATTENDANCE SHEET**

Construction of 132 kV Udaipur - Amarpur Line ,132kV  
Name of Line:- Udaipur - Bagafa Line & associated distribution lines(with  
financial assistance of WORLD BANK) under NERPSIP Project

Date- 20.09.2014

Venue- MATABARI

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
100	Appama Das (Deb)	Matabari		
101	Shefali Datta	Khilpara		
102	Jadulal Das	Matabari		
103	Sukhlal Das (Bank)	Rajnagar.	P.Samiti Member	
104	Litan Kanti Sen	Kunjaban		
105	Sujit Das	- DO -		
106	Johal Palaees	Paschim Khilpara	Member	
107	Subash Karmakar	Kunjaban		
108	Aba Dey	ful Kumari		
109	Sima Nalla Das	W. Khilpara		
110	Mohidul	W. Khilpara 'Samati'		
111	Ratna rani Sutradhar	W. Kunjaban		

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## DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তব্য সভার বিবরণ

<b>Subject/ বিষয়</b>
Construction of 132 kV Udaipur – Bagafa Line ,132kV Bagafa- Satchand Line,132kV Bagafa – Belonia Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project  NERPSIP প্রকল্পের আওতায় (বিশ্ব ব্যাংকের আর্থিক সহায়তায়) 132kV উদয়পুর- বাগাফা, 132kV বাগাফা - সাতচন্দ ও 132kV বাগাফা - বীলোনিয়া পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ
<b>Place of Meeting/সভার স্থান</b>
Bagafa RD Block(BDO Office Conference Hall)/ বাগাফা ব্লক (BDO অফিস কনফারেন্স হল)
<b>Date of Meeting/সভার তারিখ</b>
15.09.2014 / ১৫.০৯.২০১৪
<b>Name of the dignitary present in the meeting/ সভায় উপস্থিত মর্যাদাপূর্ণ ব্যক্তিদের নাম</b>
<b>A. Tripura Government/ ত্রিপুরা সরকার</b> 1) Sh. Himangsu Roy, Sabhaadhipati, Belonia, South Tripura District 2) Sh.Sankar Majumdar, chairman Bagafa Block. 3) Sh. Parikshit Mora Singh, BAC Chairman 4) Sh. Arpan Dutta, Vice-Chairman 5) Sh. Hiralal Debbarma, Sr. DM 6) Sh. Ashish Dutta, BDO, Bagafa
<b>B. TSECL Officials/ TSECL কর্মকর্তারা</b> 1. Sh. Ratan Das, DGM,TSECL
<b>c. POWERGRID Officials/ পাওয়ার গ্রিড কর্মকর্তারা</b> 1. Sh. N. Dube, DGM, POWERGRID 2. Sh. D.N.Brahma, Chief Manager, POWERGRID 3. Sh. Uttam Debnath, Sr. Engineer, POWERGRID
<b>People present in the meeting/ সভায় উপস্থিত জনসাধারণ</b>
200-250 nos. of local village and some common public .(Attendance Sheet Enclosed) 200-250 জন স্থানীয় গ্রাম এবং কিছু সাধারণ পাবলিক ( উপস্থিত ব্যক্তিবর্গের সাক্ষর )

**Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:**

A brief of the NORTH EASTERN REGION POWER SYSTEM IMPLEMENTATION PROJECT(NERPSIP) under the world bank assistance has been deliberated at the beginning of the meeting by Sh. Rattan Das, DGM,TSECL. Importance & necessity of the project, necessity for upgradation of existing transmission & distribution network, various environment & Social issues associated with the project have been briefly discussed and appraised to the public present in the meeting.

আলোচনা সভার শুরুতে TSECL এর ডেপুটি জেনারেল ম্যানেজার শ্রী রতন দাস মহাসয় বিশ্ব ব্যাংকের আর্থিক সহায়তায় উত্তর পূর্ব ক্ষেত্র বিদ্যৎ বাবস্থা উন্নতিকরণ প্রকল্প(NERPSIP) সমন্ধে জনসাধারণের উদ্দেশ্যে সংক্ষিপ্ত তথ্য দিলেন । তাছাড়া প্রকল্পের প্রয়োজনীয়তা ও গুরুত্ব, বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন এর ক্ষমতা বৃদ্ধির প্রয়োজনীয়তা, প্রকল্পের সঙ্গে যুক্ত বিভিন্ন পরিবেশ ও সামাজিক বিসয়, সমন্ধে সংক্ষিপ্ত জানামল্লানা উত্থাপন করলেন উপস্থিত জনসাধারণের উদ্দেশ্যে ।

**Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া**

Representatives from the public also responded and raised various concerns about the project. The various issues raised by public are summarised as below:-

- ✓ Whether this line will improve the power supplies in our village and remove frequent interruption/outage
- ✓ Whether these lines are safe for the nearby dwellers without any problems of electrocution while working in the fields
- ✓ What is compensation policy for the standing crops damaged and compensation for the land occupied by the tower footings

জনসাধারণের পক্ষ্য থেকেও প্রতিনিধিরা প্রতিক্রিয়া এবং প্রকল্প সম্পর্কে বিভিন্ন উদ্বেগ উত্থাপিত করলেন । জনসাধারণ দ্বারা উত্থাপিত কিছু গুরুত্বপূর্ণ বিষয় নীচের সংক্ষিপ্ত করা হলো :-

- এই প্রকল্প এর জন্য আমাদের গ্রামে বিদ্যৎ সরবরাহ উন্নত হবে কিনা এবং ঘন ঘন বিদ্যুত বিভ্রাট মুছে ফেলা যাবে কিনা ?
- এই লাইন এর জন্য নিকটবর্তী গ্রামবাসীরা তাদের জমিতে কাজ করার সময় তরিতাহত হয়ে কোনো ক্ষতিগ্রস্ত হবে কিনা ?
- ক্ষতিগ্রস্ত ফসলের ক্ষতিপূরণের জন্য ক্ষতিপূরণ নিয়ম কি হবে এবং টাওয়ার বানানোর জন্য যে জমি লাগবে তার ক্ষতিপূরণের কি নিয়ম হবে ?

## Conclusion/ উপসংহার

However all the public present have unanimously agreed to the necessity and importance of the project and assured their co-operation during the implementation of the project.

TSECL/POWERGRID has assured that all the genuine issues will be duly taken care of during the implementation of the project. Further

- This transmission line along with associated distribution line planned to be constructed for improvement of electricity supply and minimize the power cut in your village
- Sufficient electrical clearance will be maintained while construction of these line and hence no electrocution while working in the field.
- For damaged crops,trees sufficient compensation will be given as per the rate provided by district revenue authority. Further no land will be acquired while constructing the tower but sufficient surface compensation will be provided.

The meeting has been concluded with a request to all public for their support in completion of the project.

তবে সবশেষে উপস্থিত জনসাধারণ সর্বসম্মতিক্রমে প্রকল্পের প্রয়োজনীয়তা এবং গুরুত্ব নিয়ে একমত প্রকাশ করেছেন এবং প্রকল্প বাস্তবায়ন সময় তাদের সহযোগিতা নিশ্চিত করেছেন ।

TSECL / পাওয়ার গ্রিড কর্মকর্তারা সমস্ত বাস্তব সমস্যা উপর প্রকল্প বাস্তবায়নের সময় যথায়ত নজর দেয়ার আশ্বাস দিয়েছেন. তাছাড়া

- এই বিদ্যৎ পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ এর ফলে এই এলাকার বিদ্যৎ বেবস্থার উন্নতি হবে এবং ঘন ঘন বিদ্যৎ কাটা বন্ধ হবে।
- বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন নির্মাণের সময় যথেষ্ট বৈদ্যুতিক ব্যবধান রক্ষণাবেক্ষণ করা হবে যাতে বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন কাছাকাছি বা নিকটবর্তী মাঠে কাজ করা লোকদের কোনো তারিতাহতর সম্ভাবনা না থাকে।
- ক্ষতিগ্রস্ত ফসলের ও গাছ এর জন্য জেলা রাজস্ব কর্তৃপক্ষ দ্বারা উপলব্ধ হার অনুযায়ী ক্ষতিপূরণ দেওয়া হবে। টাওয়ার বানানোর জন্য কোনো জমি অধিগ্রহণ করা হবে না কিন্তু টাওয়ার বানানোর ফলে যে গাছ বা ফসল ক্ষতি হবে তার ক্ষতি পূরণ দেওয়া হবে

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
(A GOVERNMENT OF TRIPURA ENTERPRISE)



**Public Consultation Meeting**  
**ATTENDANCE SHEET**

**Name of Line:-** Construction of 132 kV Udaipur - Bagafa Line, 132kV Bagafa- Satchand Line, 132kV Bagafa - Belonia Line & associated distribution lines (with financial assistance of WORLD BANK) under NERPSIP Project

**Date-** 15.09.2014

**Venue-** BAGAFA

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
১)	Soma Das	Lowgang	House wife	Soma Das
২)	Pran Kishor Patra	Lowgang	- do -	Pran Patra
৩)	সমা দাস (২য়)	Lowgang	"	সমা দাস
৪)	শ্রী চন্দ্রকান্ত	Lowgang	"	শ্রী চন্দ্রকান্ত
৫)	সত্যজিৎ কান্ত	Lowgang	"	সত্যজিৎ কান্ত
৬)	স্বপ্না সোণ	Subash colony	"	Swarupa son
৭)	সত্যজিৎ কান্ত	"	"	সত্যজিৎ কান্ত
৮)	সত্যজিৎ কান্ত	"	"	Mahomed
৯)	সত্যজিৎ কান্ত	"	Business	Somhar Das
১০)	শ্রী চন্দ্রকান্ত	"	"	শ্রী চন্দ্রকান্ত
১১)	সত্যজিৎ কান্ত	Lowgang	"	Pran Kishor Patra

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Date- 15.09.2014

Venue- BAGAFA

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
12	Rasmohan Chowdhury	Garechhang	Farmer	Rasmohan Chowdhury
13	Anjali Bhowmik	Garechhang	HPW	Anjali Bhowmik
14	Nirmal Tripathy	Garechhang	Farmer	Nirmal Tripathy
15	সত্যজিৎ বসু	সমস্যা	HPW	সত্যজিৎ বসু
16	সুজান দেবনাথ	Rak. Gang	Farmer	Sujan Deb Nath
17	অলোক দেবনাথ	DO -	Aloruni D/nath HPW	Aloruni D/nath
18	অঞ্জলি দাস	DO	HPW	Anjali Das
19	রক্তা দেব	DO	HPW	Rakta Das
20	তপসী মজুমদার	Betageh	HPW	Tapasi Majumdar
21	সত্যজিৎ বসু	Betageh	HPW	সত্যজিৎ বসু

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**Date-** 15.09.2014

**Venue-** BAGAF

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
21	MILAN DAS	LONGAAS	H/W	Milan Das
23	MOJIBUL HASAN	Betaga	Business	Mojibul Hasan
24	Parvati Devi	Betaga	"	Parvati Devi
25	Shyam Lal	Betaga	"	Shyam Lal
26	Pradyumn Lal	Betaga	"	Pradyumn Lal
27	Bimal Ch. Das.	Kanchanagar	"	Bimal Ch. Das
28	Sudhakar Das (H/S)	Kanchan Nagar	H/W	Sudhakar Das (H/S)
29	Pradyumn Lal	DO	Business	Pradyumn Lal
30	Nani Gopal Das	DO	Business	Nani Gopal Das
31	Pradyumn Lal	DO	Business	Pradyumn Lal
32	Tapam Das	Sukhesh Lalay	Business	Tapam Das



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**Date-** 15.09.2014

**Venue-** BAGAFA

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
33	Sailapati Chakraborty	Kanchannagar	Business	Sailapati Chakraborty
34	Monchai Moy	"	H/W	21/09/2014
35	Sima Debnath	West Kattalia	"	Sima Debnath
36	Shipra Podder (Dey)	"	"	Shipra podder (Dey)
37	Jaraki Reang	"	"	Jaraki Reang
38	Kabir Reang	"	Business	Kabir Reang
39	Bimal Dutta	"	"	Bimal Dutta
40	Sukhes Das	"	"	Sukhes Das
41	Nikhil Mazak	"	"	Nikhil Mazak
42	Arup Choudhary	"	"	Arup Choudhary
43	Pankaj Nath	Belaga	"	Pankaj Nath

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**Date-** 15.09.2014

**Venue-** BAGAFA

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
44	Shafali Rani Dhan	Betaga	H/W	
45	Swapna Deb Nath	"	"	
46	Madhuri Das	"	"	
47	Sirha Das	"	"	
48	Suparna Das	East Bagafa	Panchayat Samiti Member	
49	Neeraj Mog	Grandhang	H/W	
50	Milan Das	"	H/W	
51	Paiyu Mog	"	Business	
52	Sujit Tripura	Grandhang	"	
53	Angka Mog	Subhash Colony	"	
54	Parimal Ch. Das	"	"	

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**Date-** 15.09.2014

**Venue-** BAGAFA

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
55	Prabir Debnath	Betaga	P/S	Prabir Debnath
56	Ranga Mohan	"	Business	Ranga Mohan
57	Raghunath Tripathi	"	"	Raghunath Tripathi
58	Dhirendra Rana	"	"	Dhirendra Rana
59	Sanjay Debnath	R.K Gony	Prodhun	Sanjay Debnath
60	Smiti Nandi	Ranchanagar	Business	Smiti Nandi
61	Ranjati Janalia	Kanu	"	Ranjati Janalia
62	Biswapati D/Barna	South Takra	"	Biswapati D/Barna
63	Sukesari D/Barna	Kajapur	"	Sukesari D/Barna
64	Bangla Mohan xocelia	Takmachan	"	Bangla Mohan Nontel
65	Panchelaxmi Tripathi	Gardhang	"	Panchelaxmi Tripathi

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Date- 15.09.2014

Venue- BAGAF A

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
66	Malati Triapur	Takmeslum	H/W	Malati Nautia
67	Bishnu Priyanganu (N.H.)	Bedage	Business	Bishnu priyanganu das (N.H.)
68	Priyanshi Rudrapur	Bedage	"	Priyanshi Rudrapur
69	Ajit Das	R.K. Gang	"	Ajit Das
70	Shyamal Datta	Kandian Nagar	"	Shyamal Datta
71	Nirapada Das.	Tripura Aids Control Society	"	Nirapada Das 15/09/14
72	Suman Das	East Boreaf	"	Suman Das
73	Nanda in Raj		"	Nanda in Raj
74				
75				
76				

## DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তুনা সভার বিবরণ

<b>Subject/ বিষয়</b>
Construction of 132kV Bagafa- Satchand Line,132kV Belonia - Sabroom Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project  NERPSIP প্রকল্পের আওতায়( বিশ্ব ব্যাংকের আর্থিক সহায়তায়) 132kV বাগাফা - সাতচান্দ ও 132kV বীলোনিয়া - সারুঙ্গম পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ
<b>Place of Meeting/সভার স্থান</b>
Satchand RD Block(BDO Office Conference Hall)/ সাতচান্দ ব্লক (BDO অফিস কনফারেন্স হল)
<b>Date of Meeting/সভার তারিখ</b>
26.09.2014 / ২৬.০৯.২০১৪
<b>Name of the dignitary present in the meeting/ সভায় উপস্থিত মর্যাদাপূর্ণ ব্যক্তিদের নাম</b>
<b>A. Tripura Government/ ত্রিপুরা সরকার</b> 1) Sh. Himangsu Roy, Sabhaadhipati, Belonia, South Tripura District 2) Sh. Hiralal Debbarma, Sr. DM 3) Sh. Goutam Chakraborty, BDO, Satchand
<b>B. TSECL Officials/ TSECL কর্মকর্তারা</b> 1. Sh. Ratan Das, DGM,TSECL
<b>c. POWERGRID Officials/ পাওয়ার গ্রিড কর্মকর্তারা</b> 1. Sh. N. Dube, DGM, POWERGRID 2. Sh. Anupam Acharya, Engineer, POWERGRID
<b>People present in the meeting/ সভায় উপস্থিত জনসাধারণ</b>
150-200 nos. of local village and some common public .(Attendance Sheet Enclosed) 150-200 জন স্থানীয় গ্রাম এবং কিছু সাধারণ পাবলিক ( উপস্থিত ব্যক্তিবর্গের সাক্ষর )

**Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:**

A brief of the NORTH EASTERN REGION POWER SYSTEM IMPLEMENTATION PROJECT(NERPSIP) under the world bank assistance has been deliberated at the beginning of the meeting by Sh. Rattan Das, DGM,TSECL. Importance & necessity of the project, necessity for upgradation of existing transmission & distribution network, various environment & Social issues associated with the project have been briefly discussed and appraised to the public present in the meeting.

আলোচনা সভার শুরুতে TSECL এর ডেপুটি জেনারেল ম্যানেজার শ্রী রতন দাস মহাসয় বিশ্ব ব্যাংকের আর্থিক সহায়তায় উত্তর পূর্ব ক্ষেত্র বিদ্যৎ বাবস্থা উন্নতিকরণ প্রকল্প(NERPSIP) সমন্ধে জনসাধারণের উদ্দেশ্যে সংক্ষিপ্ত তথ্য দিলেন । তাছাড়া প্রকল্পের প্রয়োজনীয়তা ও গুরুত্ব, বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন এর ক্ষমতা বৃদ্ধির প্রয়োজনীয়তা, প্রকল্পের সঙ্গে যুক্ত বিভিন্ন পরিবেশ ও সামাজিক বিসয়, সমন্ধে সংক্ষিপ্ত জানামল্লানা উত্থাপন করলেন উপস্থিত জনসাধারণের উদ্দেশ্যে ।

**Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া**

Representatives from the public also responded and raised various concerns about the project. The various issues raised by public are summarised as below:-

- ✚ Whether this line will improve the power supplies in our village and remove frequent interruption/outage?
- ✚ Whether these lines are safe for the nearby dwellers without any problems of electrocution while working in the fields?
- ✚ What is compensation policy for the standing crops damaged and compensation for the land occupied by the tower footings?
- ✚ What about employment for local people and procedure for same ?

জনসাধারণের পক্ষ্য থেকেও প্রতিনিধিরা প্রতিক্রিয়া এবং প্রকল্প সম্পর্কে বিভিন্ন উদ্বেগ উত্থাপিত করলেন । জনসাধারণ দ্বারা উত্থাপিত কিছু গুরুত্বপূর্ণ বিষয় নীচের সংক্ষিপ্ত করা হলো :-

- ✚ এই প্রকল্প এর জন্য আমাদের গ্রামে বিদ্যৎ সরবরাহ উন্নত হবে কিনা এবং ঘন ঘন বিদ্যুত বিভ্রাট মুছে ফেলা যাবে কিনা ?
- ✚ এই লাইন এর জন্য নিকটবর্তী গ্রামবাসীরা তাদের জমিতে কাজ করার সময় তরিতাহত হয়ে কোনো ক্ষতিগ্রস্ত হবে কিনা ?
- ✚ ক্ষতিগ্রস্ত ফসলের ক্ষতিপূরণের জন্য ক্ষতিপূরণ নিয়ম কি হবে এবং টাওয়ার বানানোর জন্য যে জমি লাগবে তার ক্ষতিপূরণের কি নিয়ম হবে ?
- ✚ এই প্রকল্পের জন্য স্থানীয় মানুষ এর কর্মসংস্থান এবং নিয়োগ নীতির কি নিয়ম হবে ?

## Conclusion/ উপসংহার

However all the public present have unanimously agreed to the necessity and importance of the project and assured their co-operation during the implementation of the project.

TSECL/POWERGRID has assured that all the genuine issues will be duly taken care of during the implementation of the project.

- ✚ This transmission line along with associated distribution line planned to be constructed for improvement of electricity supply and minimize the power cut in your village
- ✚ Sufficient electrical clearance will be maintained while construction of these line and hence no electrocution while working in the field.
- ✚ For damaged crops,trees sufficient compensation will be given as per the rate provided by district revenue authority. Further no land will be accrued while constructing the tower but sufficient surface compensation will be provided.
- ✚ Local people will be engaged during the construction of line and the engagement will be as per their skill.

The meeting has been concluded with a request to all public for their support in completion of the project.

তবে সবশেষে উপস্থিত জনসাধারণ সর্বসম্মতিক্রমে প্রকল্পের প্রয়োজনীয়তা এবং গুরুত্ব নিয়ে একমত প্রকাশ করেছেন এবং প্রকল্প বাস্তবায়ন সময় তাদের সহযোগিতা নিশ্চিত করেছেন ।

TSECL / পাওয়ার গ্রিড কর্মকর্তারা সমস্ত বাস্তব সমস্যা উপর প্রকল্প বাস্তবায়নের সময় যথাযত নজর দেয়ার আশ্বাস দিয়েছেন। জনসাধারণের প্রশ্নের উত্তরে POWERGRID/TSECL কর্মকর্তারা বলেন,

- ✚ এই বিদ্যৎ পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ এর ফলে এই এলাকার বিদ্যৎ বেবস্বার উন্নতি হবে এবং ঘন ঘন বিদ্যৎ কাটা বন্ধ হবে।
- ✚ বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন নির্মাণের সময় যথেষ্ট বৈদ্যুতিক ব্যবধান রক্ষণাবেক্ষণ করা হবে যাতে বিদ্যৎ পরিবাহী লাইন এবং বন্টন লাইন কাছাকাছি বা নিকটবর্তী মাঠে কাজ করা লোকদের কোনো তারিতাহতর সম্ভাবনা না থাকে ।
- ✚ ক্ষতিগ্রস্ত ফসলের ও গাছ এর জন্য জেলা রাজস্ব কর্তৃপক্ষ দ্বারা উপলব্ধ হার অনুযায়ী ক্ষতিপূরণ দেওয়া হবে । টাওয়ার বানানোর জন্য কোনো জমি অধিগ্রহণ করা হবে না কিন্তু টাওয়ার বানানোর ফলে যে গাছ বা ফসল ক্ষতি হবে তার ক্ষতি পূরণ দেওয়া হবে
- ✚ প্রকল্পের কাজের রূপায়নের সময় গ্রামের তথা স্থানীয় কারিগর/ শ্রমিক দের তাদের যুগ্যতা অনুযায়ী নিয়োগ করা হবে ।

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনুরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে

**TRIPURA STATE ELECTRICITY CORPORATION LTD**  
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**Public Consultation Meeting**  
**ATTENDENCE SHEET**

Name of Line: Construction of 132kV Bagafa- Satchand Line, 132kV Belonia - Sabroom Line & associated distribution lines

Venue- SATCHAND

Date- 26.09.2014

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
1	Bhowmik Pal	Theikun	Member	
2	Smt. Muniti Tripathi	Uttaraghar	Member	Muniti Tripathi
3	Smt. Swapna Das	Dakshin, Chitaloli	Member	Smt. Swapna Das
4	Smt. Kanchanmala Tripathi	Kalachara	Member	Kanchanmala Tripathi
5	Smt. Kalita Das	Nahagram	member	Kalita Das
6	Smt. Khokan Ray	Kalachara	Upa-Pradhan	Khokan Ray
7	Smt. Ganesh Ch. Ray	- do -	member	Ganesh Ch. Ray
8	Smt. Nibedita Nandi Bhowmik	Purba Harina	Pradhan	Nibedita Nandi (Bhowmik)
9	Smt. Usha Rani Ray	Purba Harina, Kuchalepa	member	Usha Rani Ray
10	Smt. Santibala Ghil	Purba Harina	Member	Santibala Ghil
11	Ratna Debnath	- do -	- do -	Ratna Debnath
12	Smt. Kamal Krishna Debnath	- do -	- do -	Kamal Krishna Debnath



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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
13	si Dulal Das	Purba Harin	Member	Dulal Das
14	si Shironjyoti Das	Satchand	Member	Shironjyoti Das
15	si Kiritika Ch. Pal	Manuhazar	Member	Kiritika Ch. Pal
16	Smt. Jharna Das (Name)	- do -	Member	Jharna Das
17	Smt. Swarna Das	- do -	- do -	Swarna Das
18	Smt. Bapi Majumdar	Battala	- do -	Boppi Majumdar
19	Smt. Lipika Das Majumdar	- do -	- do -	Lipika Das
20	Smt. Laxmi Banik	Manuhazar	- do -	Laxmi Banik
21	Sri Shymal Choudhary	- do -	- do -	Shymal Choudhary
22	Smt. Shipra Pal	- do -	- do -	Shipra Pal
23	Smt. Sarawati Karmahar	- do -	- do -	Sarawati Karmahar
24	" Ranjana Mala Tripura	Bojjoynagar	- do -	Ranjana Mala

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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
25	Sh. Jagan Lal D/Nath	South Gorakale	Member	
26	Smt. Manika Das	Satchand	Chair person	
27	Sh. Rama Kishore Tripura	Post chair	Chairman	Rama Kishore Tripura
28	Smt. Mandhira Sarkar	Mangukhara	Member	Mandhira Sarkar
29	" Pratima Das Saha	Manu Nagar	- Do -	Pratima Das Saha
30	Sh. Subrata Majumdar	Manughat (Indiranagar)	- Do -	Subrata Majumdar
31	" Ganesh Ch. Debnath	Indiranagar	- Do -	Ganesh Ch. Debnath
32	Smt. Praba Datta Majumdar	- Do -	- Do -	Prabha Datta Majumdar
33	" Rajal Majumdar	- Do -	- Do -	Rajal Majumdar
34	" Shipra Das	- Do -	- Do -	Shipra Das

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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
35	Smt. Shipra Das Patuare	Chaita Chari ADC. Village.	Pradhan	Shipra Das [Signature]
36	" Suparna Paul Majumdar	W. Harina.	Member.	Suparna Paul (Majumdar)
37	" Namita Sarkar. (Mrs)	- Do -	Pradhan	Namita Sarkar (Mrs)
38	" Neichai Mog.	Kalapari	Pradhan	Neichai Mog
39	" Minu Mog.	- Do -	Member	মিনি মগ
40	Sh. Apra mag	- Do -	- Do -	Apra Mag
41	Smt - Jarna Sarkar.	- Do -	- Do -	Jarna Sarkar [Signature]
42	" Archana Sarkar.	Nabagram.	Pradhan.	Archana Sarkar
43	" Gita Sarkar.	- Do -	Member	গীতা সর্কার [Signature]
44	Sh. Manindra Das.	- Do -	- Do -	Manindra Das [Signature]
45	" Bimal Das	Satchand.	- Do -	Bimal Das
46	" Dineshch. Das.	N. Gokatali Das Para.	- Do -	Dineshch. Das [Signature]

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47	Sh. Anup choudhury	Kalapani	Member	Anup Choudhury
48	Smt - Lipi Roy Das	B.K. Pally Panchayat.	Upa Pradhan	Lipi Roy (Das)
49	Sh - Anur Paul	Nabagram	- DO -	Anur Paul
50	" Krishna Batta	(Satchand)	Member.	Krishna Batta
51	Smt - Jayapati Tripura	- DO -	- DO -	Jayapati
52	" Rajal Rani Das	Nabagram.	- DO -	Rajal Rani Das
53	" Mrachandra (Choudhury) Das	Satchand	- DO -	Mrachandra Das Choudhury
54	Sh. Prabha Ran Tripura	- DO -	- DO -	Prabha Ran Tripura
55	Smt - Satisang Tripura	Sendu Kapatari A.D.C.	Chair Person.	Satisang Tripura
56	Sh. Teeta Ran Das	Kalachara.	Member	Teeta Ran Das
57	" Biswanath Ray	Nabagram.	- DO -	Biswanath Ray
58	" Depak Banik	Manu Bazar	Member -	Depak Banik

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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
59	SR. Raj Kumar Das.	Thaiban.	Pradhan.	Raj Kumar Das
60	Smt. Radha D/Naith	- Do -	Member	Radha Debnath
61	" Gouri Paul	- Do -	- Do -	Gouri Pal.
62	" Sabita Nams.	Dambama.	- Do -	Sabita namsa Sen
63	" Mani Das.	Thaiban.	- Do -	Mani Das
64	Sh. Ratna Sarkar	Nabagan.	- Do -	Ratna Sarkar
65	Smt. Lalita Das.	- Do -	- Do -	Lalita Das
66	" Archana Debnath	Goratali	- Do -	Archana Debnath
67	" Phol Kali	- Do -	- Do -	Fulkali Tripura
68	" Jyotsna Debnath	Kalapani	- Do -	Jyotsna Debnath
69	Sh. Sanjit Das	Kurba Harina	- Do -	Sanjit Das
70	" Parimal Patani	" Goratali	- Do -	Parimal Patani

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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
71	Sh. Partha Debbrishwas	N. Patavri	Member	8736288 830978
72	" Kshitish Ch. Das.	N. Govatala	- Do -	Khitish Ch. Das
73	" Dulal Das	N. Harina	- Do -	Dulal Das
74	Smt. Shipra Kuri (Nath)	B. K. Pally	- Do -	Shipra Kuri (Nath)
75	" Rakhi Das	- Do -	- Do -	Rakhi Das
76	" Sukha Debnath	- Do -	- Do -	Sukha Debnath
77	" Omkar Ch Das	- Do -	- Do -	Omkar Ch Das
78	" Bhupal Paul	- Do -	- Do -	Bhupal Paul
79	Smt. Lakshmi Basak	Dandama	- Do -	Laxmi Basak
80	" Anu Majumdar (Bani K)	- Do -	- Do -	Anu Bani K
81	Sanjoy Choudhury	Sureth Behuratal	- Do -	Sanjoy Choud.
82	Sanjoy D/nath	- Do -	- Do -	Sanjoy Debnath

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83	Sh. Parimal Debnath	Rajibnagar.	Member -	Parimal Debnath
84	Smt - Jyotsna Chakrabarty	Kalachara.	- DO -	Jyotsna Chakrabarty (Bhatte chakrabarty)
85	Sh. Jayanta Bhonumik	Bat-tala	- DO -	Jayanta Bhonumik
86	" Shibu Rajan Das	- DO -	"	Shibu Rajan Das
87	" Parwan Nana	N. Dalakar.	"	Parwan Nana
88	" Tapan Majumdar	Buttala	"	Tapan Majumdar
89	Smt - Maya Rani Nath	- DO -	"	Maya Rani Nath
90	" Bebi Rani Das	Bottarona.	"	Bebi Rani Das
91	" Renuka Das	- DO -	"	Renuka Das
92	" Putul Das	Jalapa.	"	Putul Das
93	" Parimal Shill	B. Jalapa.	Pradhan	Parimal Shill
94	Smt - Jayanti Tripura	- DO -	Member -	Jayanti Tripura

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Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Sign.
95	Smt - Ratna Sharm	E-Jalapa	member	Ratna Sharm
96	Sh. Jahar Lal Sarkar	Nandigram	- do -	Jahar Lal Sarkar
97	" Gananjoy Debnath	Rajibnagar	do -	Gananjoy Debnath
98	" Amar Ch. Das	Sukanta Path	- do -	Amar Ch. Das
99	" Narayan Debnath	- do -	"	Narayan Debnath
100	" Chintan Kumar Das	- do -	Pradhan	Chintan Kumar Das
101	Smt - Shika Das (Majumdar)	Prisjoy nagar	Member	Sikhar Das Majumdar
102	Sh. Bishwajit Majumdar	- do -	"	Bishwajit Majumdar
103	" Rajib Sarkar	- do -	"	Rajib Sarkar
104	" Babatosh Majumdar	- do -	"	Babatosh Majumdar
105	Smt Medhu Sarkar	- do -	"	Medhu Sarkar
106	" Rina Sutradhar	- do -	"	Rina Sutradhar



**Photographs of Public Consultation held on 15<sup>th</sup> Sep'2014 at Bagafa**



**Photographs of Public Consultation held on 20<sup>th</sup> Sep'2014 at Udaipur**



**Photographs of Public Consultation held on 26<sup>th</sup> Sep'2014 at Satchand**



## Informal Group Meetings with Villagers/PAPs en-route of Proposed Transmission Lines

Date of meeting	No. of Villagers interacted During meeting	Location of Public Consultation	District	Remarks
21/12/2018	12	Santirbazar	South Tripura	Local villagers including Project Affected Persons were interacted during meeting
21/12/2018	08	Manu bazar		
26/12/2018	06	Sachiram Bari		
26/12/2018	09	Muhuripur		
03/03/2019	15	Thalchera locality/ Village (Amarpur)	Gomati	
04/03/2019	08	Patachara locality, Garjee Village (Udaipur)		
06/03/2019	19	Chechua	South Tripura	
10/03/2019	04	Rupaichari		



**Discussion/ interaction with Villagers/PAPs at Santirbazar**



**Discussion/ interaction with Villagers/PAPs at Manubazar**



**Discussion/  
interaction with  
Villagers/PAPs at  
Sachiram Bari**





**Discussion/  
interaction with  
Villagers/PAPs at  
Muhuripur**





**Discussion/ interaction with Villagers/PAPs at Thalchera Vill. (Amarpur)**



**Discussion/ interaction with Villagers/PAPs at Garjee Vill. (Udaipur)**



**Discussion/ interaction with Villagers/PAPs at Chechua**



**Discussion/ interaction with Villagers/PAPs at Rupaichari**