COMPENSATION PLAN FOR TEMPORARY DAMAGES (CPTD)

FOR

T&D NETWORK IN WEST TRIPURA, SOUTH TRIPURA, KHOWAI & SEPAHIJALA DISTRICTS IN TRIPURA

Prepared By

Environment and Social Management

POWER GRID CORPORATION OF INDIA LTD.

For

TRIPURA STATE ELECTRICITY CORPORATION LIMITED (TSECL)

TRIPURA/CPTD-1/2018 **Aug.'18**

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LIST OF ABBREVIATIONS

ADC	:	Autonomous District Council
AP	:	Affected Person
CEA	:	Central Electricity Authority
Ckt-Km	:	Circuit-kilometer
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 6th 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 West Tripura, South Tripura, Khowai & Sepahijala districts of Tripura State under the 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 CPTD is guided by laws and regulations of the Government of India/ State Govt viz. The Electricity Act, 2003, The Indian Telegraph Act, 1885, MoP guidelines of Oct.' 2015 on RoW Compensation, Tripura State Electricity Corporation Limited (TSECL)'s Environmental and Social Policy & Procedures Framework (ESPPF) and World Bank's Operational Policies.

ii. The project components include construction of 4 nos. 132 kV D/C line of 89.343 km length & 24 nos. of 33kV distribution lines of total 213.595 km length along with associated 3 nos. of new 132/33kV substations & 15 nos. new 33/11kV substations located West Tripura, South Tripura, Khowai & Sepahijala 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[1] 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/distribution lines in three stages i.e. after completion of foundation, tower erection and stringing of conductor. The payment of compensation may also be paid in three instances, if there are different damages during all the above three activities. Assessment of damages at each stage and payment of compensation is a simultaneous and continuous activity. Hence, CPTD updation will be a continuous process during construction of line for which updated semi-annual CPTD monitoring report shall be submitted by TSECL/POWERGRID.

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

[1] *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.*

A. Transmission Components:

1. Rokhia - Rabindranagar 132 kV D/C line – **22.031 km**
2. Rabindranagar – Belonia 132 kV D/C line – **63.152 km**
3. LILO of 132kV Rokhia- Surjamaninagar line at Gokulnagar – **2.92 km**
4. LILO of 132kV Agartala-Dhalabil line at Mohanpur – **1.24 km**
5. Establishment of 132/33KV new substation at Rabindranagar, Gokulnagar & Mohanpur
6. Extension of 132/33 kV Rokhia, Dhalabi & Jirania

B. Distribution Components:

1. 33 kV line from 33/11 kV Khowai– 132/33 kV Dhalabil substation – **6.643 km**
2. 33 kV line from 33/11 kV Khowai - 33/11 kV Ampura substation - **13.129 km**
3. 33 kV line from 33/11 kV Simna - 33/11 kV Hezamara substation - **11.979 km**
4. 33 kV line from 33/11 kV Simna - 33/11 Tapping of Mohanpur – Hezamara line - **14.523 km**
5. 33 kV line from 33/11 kV Barkathal - 33/11 kV Hezamara substation – **11.67 km**
6. 33 kV line from 33/11 kV Barkathal - 132/33 kV Mohanpur substation - **9.442 km**
7. 33 kV line from 33/11 kV Bamutia - 33/11 kV Durjoynagar substation - **14 km**
8. 33 kV line from 33/11 kV Bamutia - 33/11 kV Lembucherra substation – **8.121 km**
9. 2 x 33 kV line from 33/11 kV Lembucherra - LILO of 33kV Agartala-Mohanpur line - **1.051 km**
10. 2 x 33 kV line from 33/11 kV Champaknagar- 132/33kV Jirania substation – **5.957 km**
11. 2 x 33 kV line from 33/11 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania line – **0.809 km**
12. 33 kV line from 33/11 kV ADC Head Qtr. - 132/33kV Jirania substation - **3.546 km**
13. 33 kV line from 33/11 kV ADC Head Qtr. -33/11kV Champaknagar – **10.756 km**
14. 33 kV line from 33/11 kV Munkiakami - LILO of 33kV Ambasa- Teliamura line – **6.631 km**
15. 2 x 33 kV line from 33/11 kV Sekerkote - LILO of 33kV Badharghat- Jangalia line – **10 km**
16. 33 kV line from 33/11 kV Golaghati- 132/33 kV Gakulnagar substation **– 13.808 km**
17. 33 kV line from 33/11 kV Golaghati -33/11 kV Takarjala substation - **10.464 km**
18. 33 kV line from 33/11 kV Durganagar - 132/33 kV Gakulnagar substation – **7.005 km**
19. 33 kV line from 33/11 kV Durganagar - 33/11kV Madhupur substation – **10.703 km**
20. 33 kV line from 33/11 kV Nidya - 33/11 kV Kathalia substation - **9.364 km**
21. 33 kV line from 33/11 kV Nidya - 33/11 kV Rajnagar substation - **17.745 km**
22. 33 kV line from 33/11 kV Nalchar - 33/11 kV Melaghar substation – **6.742 km**
23. 33 kV line from 33/11 kV Nalchar- 33/11 kV Bishramganj substation – **8.7 km**
24. 33 kV line from 33/11 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala line – **0.807 km**
25. Establishment of new 33/11 kV substation at Khowai, Simna, Barkathal, Bamutia, Lembucherra, Champaknagar, Ranir Bazar, ADC Head Quarter, Munkiakami, Sekerkote Golaghati, Durganagar, Nidya, Nalchar & Gabardi.

iv. As per existing law, land for tower/pole and right of way is not acquired[2] and agricultural activities are allowed to continue after construction activity. Land requirements for erecting tower/ poles for transmission/ distribution lines are just minimal. All it requires is to place the foot, four of which warrants an area of 4-6 sq- ft. Thus, the actual impact is restricted to 4 legs of the tower. Further, line alignments are done in such a way so as to avoid settlements and / or structures and hence no relocation of population on account of Transmission Line (TL)/ Distribution Line (DL) is envisaged. Most of the impacts are temporary in nature in terms of loss of standing crops/trees and other damages for which compensation will be paid to the affected persons/ community for all damages including cost of land below tower to its owner without acquiring it as per the laws and provisions laid 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 132 kV & 33 kV line are 27 meter & 15 meter respectively but average affected width/corridor would be limited to maximum 20 meter for 132 kV & 10 meter for 33 kV line. Accordingly, actual impacted area for crops and other damages worked out to be approx. 262.585 acres. Total number of trees to be affected is 46060. Additionally 1633 bamboo will be affected during construction of line. Private trees will be compensated as per the entitlement matrix. The total number of affected persons is estimated to be 983.

v. 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 TSECL & POWERGRID's site officials meet people and inform them about the routing of transmission 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/distribution lines and substation site. The process of such consultation to 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. TSECL & POWERGRID's site officials visit construction sites frequently during construction and meet with APs and discuss about norms and practices of damages and compensation to be paid for them. The executive summary of the CPTD/ Entitlement Matrix in local language will be placed at construction offices/sites.

vi. Grievance Redress Mechanism (GRM) is an integral part of project implementation, operation and maintenance stage of the project. For handling grievance, Grievance Redress

[2] *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.*

Committee (GRC) has been established at two places; project/scheme level and corporate/head quarter level. The GRCs include members 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 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. Further, grievance redressal is also 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.

vii. The CPTD is based on the World Bank Safeguard Policies as well as TSECL 's ESPPF and law of the land. 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 (iii) MoP Guidelines of Oct.' 2015 on RoW Compensation. The compensation principles adopted for the project shall comply with applicable laws and regulations of the Governments of India, TSECL's ESPPF as well as World Bank Safeguard Policies.

viii. APs will be entitled for compensation for temporary damages to crops/trees/structures etc. as per the Entitlement Matrix given in **E-1**. Temporary damage will occur during construction of transmission/distribution lines for which compensation is paid as per relevant norms. All APs are paid compensation for actual damages irrespective of their religion, caste and their economic status. One time lump sum assistance to vulnerable households on recommendation of State Authority. As an additional assistance, construction contractors are encouraged to hire local labour that has the necessary skills. TSECL /IA will provide compensation to all APs including non-title holders as already mentioned in the entitlement matrix.

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

Sl.	Type of Issue/ Impact	Beneficiary	Entitlement Options
			without actual acquisition/title transfer.
2.	Land coming in corridor of width of Right of Way **(#)**	Owner	15% of land cost as decided by District Commissioner or any other competent authority
3.	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.
4..	Other damages (if applicable)	All APs	Actual cost as assessed by the concerned authority.
5.	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
6.	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
7.	Tribal/ Vulnerable APs	Vulnerable APs3	One time additional lump sum assistance not exceeding 25% of total compensation on recommendation of State Authority/ADC/VC.

(#) Compensation for land value as per MoP guidelines dated 15.10.2015 shall be paid once Govt. of Tripura adopts the said guidelines for implementation.

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

ix. No physical displacement is envisaged in the proposed project. Major damages in transmission/distribution line are not envisaged due to flexibility in routing of line. Displacement of structures is normally not envisaged in the transmission line projects. However, whenever it is necessary, 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 will be done and verified by revenue official for actual damages. Hence, compensation is paid parallely 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

[3] Vulnerable APs include scheduled tribes residing in scheduled areas/ physically handicapped/ disabled families etc.

cost etc. This is a tentative budget which may change during the original course of implementation. The total indicative cost is estimated to be INR 1885.772 Lakhs equivalent to USD 2.74 million.

x. 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.

xi. Public consultation and internal monitoring will be continued in an intermittent basis for the entire duration of project. 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 monitoring 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 the North Eastern States (NER) states 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 state of Tripura include construction of 261 km of 132 kV transmission lines & associated 16 nos. (09 nos. New, 07 nos. Extension) and 1091 ckm of 33 kV 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**.

1.2. Project Components

6. The project components under the scope of present CPTD include following transmission/ distribution lines and associated Transmission & Distribution substations proposed in West Tripura, South Tripura, Khowai & Sepahijala districts of Tripura State;

A. Transmission System:

1. Rokhia - Rabindranagar 132 kV D/C line – **22.031 km**
2. Rabindranagar – Belonia 132 kV D/C line – **63.152 km**
3. LILO of 132kV Rokhia- Surjamaninagar line at Gokulnagar - **2.92 km**
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7. The schematic diagram of proposed transmission and distribution network under Tranche-1 of NERPSIP is shown in **Figure 1.2**

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Figure 1.1: Power Map of Tripura along with proposed project

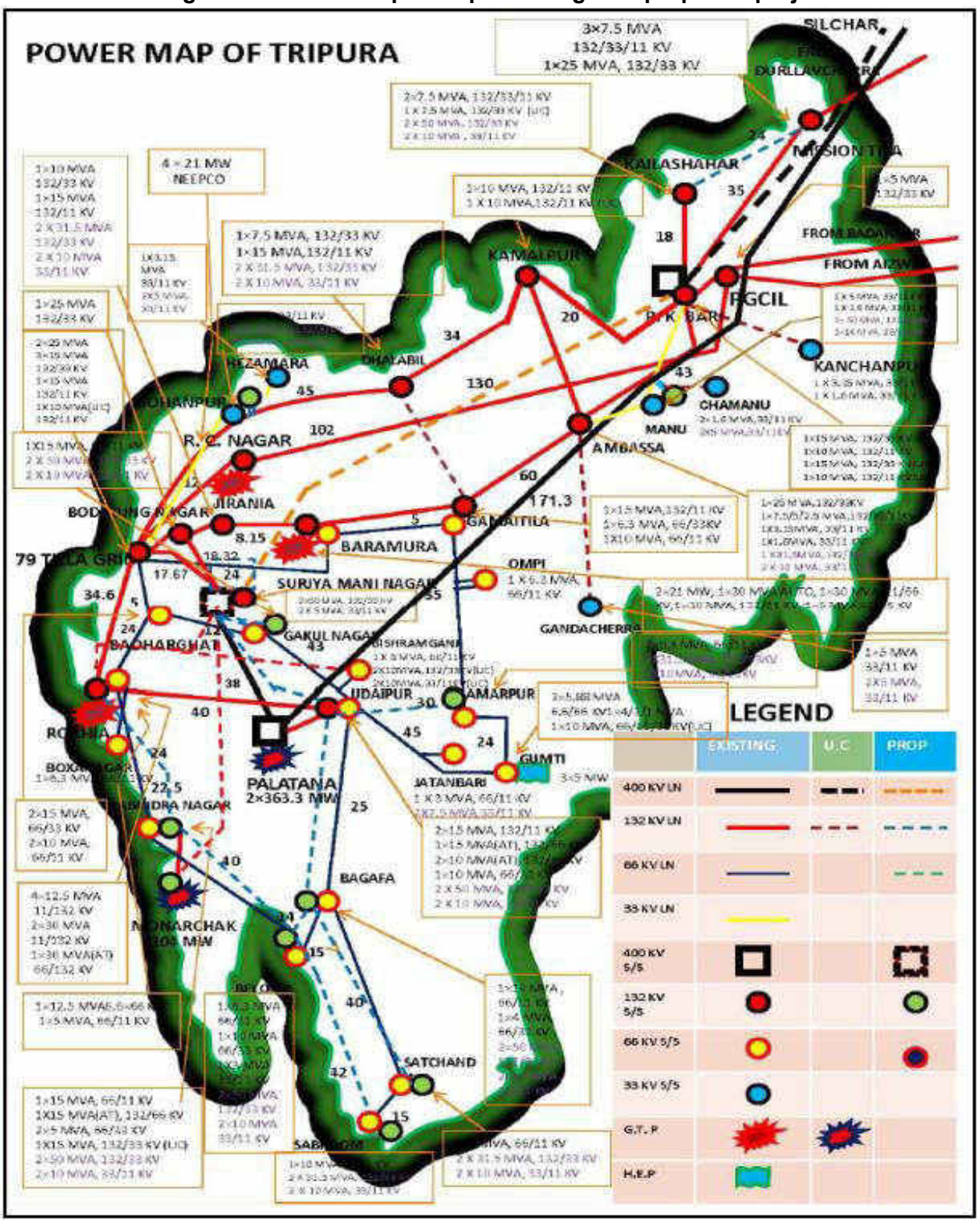
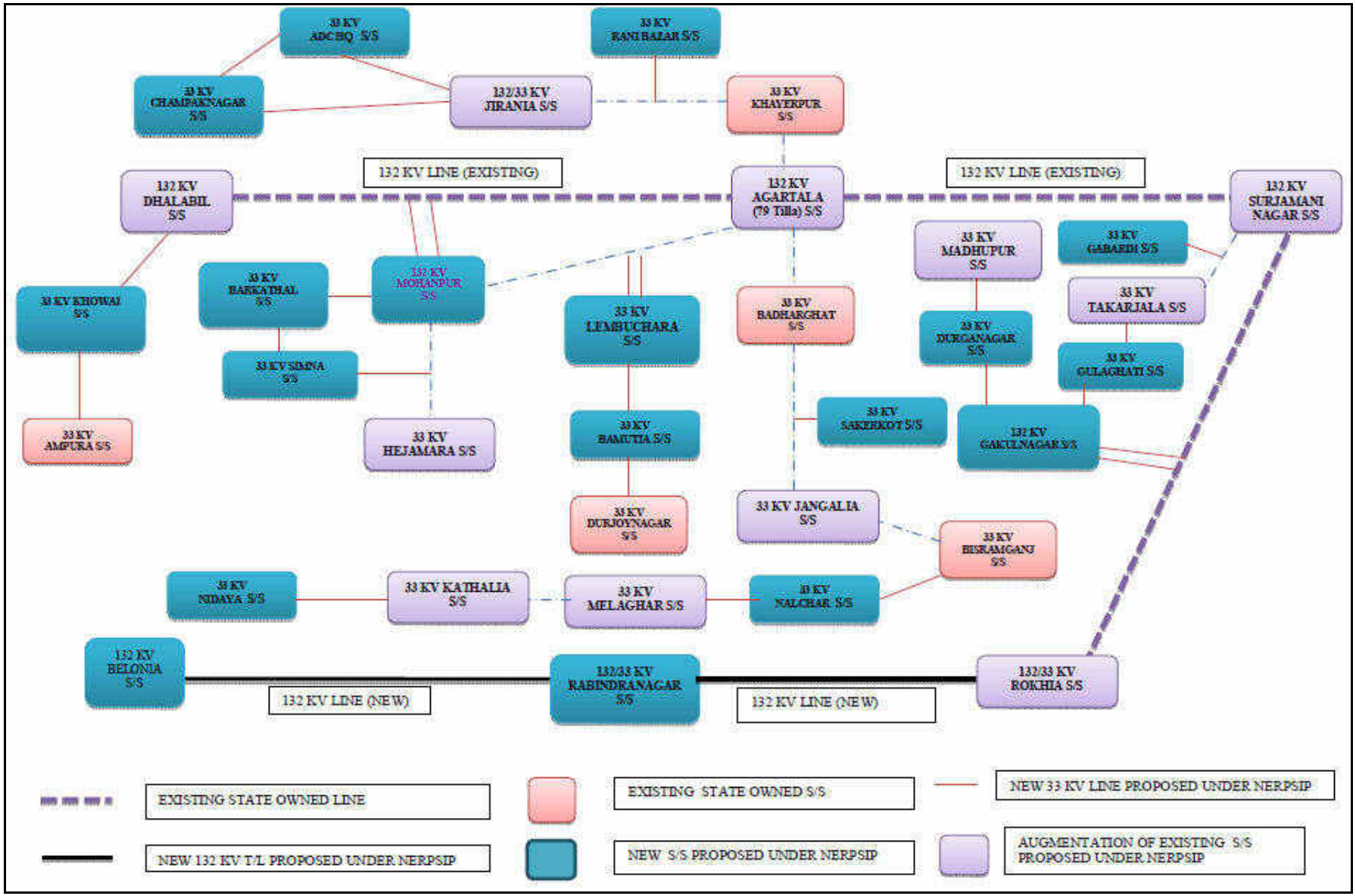


Figure 1.2 : Proposed T & D Network in West Tripura, South Tripura, Khowai & Sepahijala Districts under NERPSIP



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, preliminary assessments and meetings with various project-affected persons in the project areas. The CPTD presents (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. The CPTD is guided by The Electricity Act, 2003, The Indian Telegraph Act, 1885, MoP guidelines of 15th October 2015 on RoW Compensation, TSECL's ESPPF and World Bank's Safeguard Policies.

1.4. Scope and Limitation of the CPTD

9. Based on the assessment of proposed project components and intervention, it has been established that there will be no permanent land acquisition required and the anticipated project impacts are temporary in nature in terms of impacts on land and loss of standing crops/trees only.
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[4] 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/distribution lines in three stages i.e. after completion of foundation, tower erection and stringing of conductor. The payment of compensation shall be paid in three instances, if there are different damages during above all the three activities. Assessment of damages at each stage and payment of compensation is a simultaneous and continuous activity. Hence, CPTD updation will be a continuous process during construction of line for which updated semi-annual CPTD monitoring report shall be submitted by TSECL/POWERGRID.

[4] *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 finalised the routes of transmission line with due consideration of the avoidance or minimization of impacts toward temporary damages on crops/ trees/ structures, if any coming in the Right of Way (RoW) during construction. Similarly, the route of all the 33 KV distribution lines are mostly selected /finalized along the existing roads (PWD roads/Village roads etc.) involving minimum habituated areas and also through agricultural and barren lands wherever possible. Further field visits and public consultations helped in developing the measures towards minimizing negative social impacts, if any.

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 Deptt. of Power, Govt. of Tripura vide notification dated 20th June 2014, TSECL have the mandate to place and maintain transmission lines under/ over/ along or across and posts in or upon, any immoveable 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 one gap 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. West Tripura, South Tripura, Khowai & Sepahijala through which the various lines will traverse. It may be noted that Sepahijala & Khowai district were carved out from West Tripura district in January 2012 and due to non-availability socio economic information these districts separately, data of undivided West Tripura district has been provided. Following section briefly discuss socio-economic profile of the State and project area districts 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' 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
Culturable 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. Sepahijala & Khowai district were created from West Tripura district in January 2012**.** Erstwhile West Tripura district (including the area of newly created Sepahijala district & Khowai)

lies between latitude 23°16' and 24°14'N and longitude 91°09' and 91°47' E. The district is bounded by Bangladesh in north and east, by North Tripura district in the east and by South Tripura district in the south. Total geographical area of the district is 3544 sq km. The district headquarters are located at Agartala, which is also the capital of the Tripura state.

23. South Tripura district situated approximately between latitude 22°56' and 23°45' N and longitude 91°18' and 91°59' E. The South Tripura district is bounded on the North by Dhalai district and West Tripura district, while on the other sides by international border with Bangladesh. The total geographical area of South Tripura district is 1514.3 Sq.km

2.2.2. Climate

24. The State has a tropical savanna type climate, designated under the Köppen 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.

25. West Tripura district has monsoon influenced humid subtropical climate with large amount of rain. The district experiences long, hot and wet summers lasting from April to October. Average temperatures are around 28°C, fluctuating with rainfall. Winter is short and mild starting from mid-November to early March with mostly dry conditions and average temperature of around 18°C. Similarly, the climate of the South Tripura district is mostly warm and is characterized by a humid summer and a dry cool winter.

26. The annual rainfall of the State varies between 2,250 mm to 2,500 mm. Average annual rainfall is West Tripura and South Tripura districts is about 2300 mm & 2000 mm respectively.

2.2.3 Water Resources:

27. 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 trelis, 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.

28. The main rivers flowing through subproject districts are Gumti, Khowai, Muhuri and Feni.

2.2.4 Soil

29. 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

30. The total forest area is 6292.618 km2 in the whole state. Reserved forest is 3588.183 km2, unclassified Government forest is 2195.473 km2, while proposed reserved forest is 509.025 km2. 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 West Tripura and South Tripura districts are rich in forest resources with forest cover of 69.43% and 80.93% of total geographical area respectively. 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/distribution 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

31. 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

32. Tripura being a farming state, paddy is the major crop cultivated in 91% of total crop area across the State. Besides 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.

33. The economy of Tripura can be characterized by rate of poverty, low capital formation in-adequate infrastructure facilities, Geographical isolation and communication bottleneck, in-adequate 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.

34. The economy of West Tripura is predominantly agrarian. Paddy is the main agricultural crop accounting for majority of sown area. Wheat, Sugarcane, Pulses, fruits, cotton and potato are other major crops. Cattles and Poultry are the main livestock wealth of the district. Agartala being the state capital is a hub of various small scale industries including many export oriented industries. Mainly Cottage industry products like handloom products, baskets, cane products, bamboo made curies and tinned fruit products like orange squash, pineapple juice, and also pineapples are being exported. West Tripura's imports consist of manufactured goods such as

readymade garments, cotton yarn and twists, woollen goods, metals, machinery (for tea gardens) motor vehicles, cycles, hardware, sugar and molasses, kerosene oil, petrol, liquor paper, drugs and medicines, salt, spices, tobacco, coal, matches etc. This indicates a lack of manufacturing industries and consequently a low industrial base of the district.

35. Agriculture is the main profession/source of livelihood of the South Tripura district, with a net sown area of around 41,840 Ha. 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. The district has not witnessed much industrial growth due to varied reasons, with presence of only two Industrial Areas located at Belonia and at 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.

2.2.8 Demography Features

2.2.8.1. Total Population

36. 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 West Tripura district has a total of 17,25,739 population of which 60.73% resides in rural areas and 39.27% belongs to urban areas. South Tripura has a total population of 8,76,001 with 85.69% and 14.04% of rural and urban population of the district respectively. Details are given in **Table 2.2**.

Table 2.2: Details on Total Population

Name/Particulars	Total Population	Total (Rural)	Total (Urban)	Percentage (Rural)	Percentage (Urban)
Tripura	36,73,917	27,12,464	9,61,453	73.83	26.17
West Tripura*	17,25,739	10,48,101	6,77,638	60.73	39.27
South Tripura	8,76,001	7,52,970	1,23,031	85.96	14.04

Source: Census of India, 2011

****Since Khowai and Sepahijala districts were derived from West Tripura district in 2012, the census data of these two districts were merged with West Tripura district as per the 2011 census. Therefore the demographic data given here for West Tripura district as per 2011 census would be considered as the combined demographic data of the three districts viz. West Tripura, Khowai and Sepahijala.***

2.2.8.2 Male and Female Population

37. 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 West Tripura district stands at 17,25,739 of which male population stands at 8,79,428 (50.96%) and female population stands at 8,46,311 (49.04%) with sex ratio 962 which is higher than State's average of 960. The total population of South Tripura is 8,76,001 which covers 4,47,544 male population and 4,28,457 female population with sex ratio of 957. 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
West Tripura	17,25,739	8,79,428	8,46,311	50.96	49.04	962
South Tripura	8,76,001	4,47,544	4,28,457	51.09	48.91	957

Source: Census of India, 2011

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

38. 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 West Tripura district has a total SC population of 3,38,094 (19.59%) and ST population of 4,31,944 (25.03%). The SC and ST population of South Tripura district stand at 1,40,168 (16.00%) and 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
West Tripura	17,25,739	3,38,094	19.59	4,31,944	25.03
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

39. The literacy rate of West Tripura district stands at 78.89 % which is higher than State's average (76.34%). The South Tripura district has 73.84% of literacy rate. However, the female literacy rate of West Tripura and South Tripura districts are 46.89% and 45.72% respectively. 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	46.47
West Tripura	17,25,739	13,61,354	78.89	53.11	46.89
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)

40. 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 West Tripura district has a total work population of 6,98,178 of which total Male (work) population stands at 5,00,406 (71.67%) and total female (Work) population stands at 1,97,772 (28.33%). Whereas in South Tripura district, the total population at work stands at 3,66,845 of which 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
West Tripura	6,98,178	5,00,406	1,97,772	71.67	28.33
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

41. Total Households in Tripura stands at 19,296 of which 14,424 (74.75%) households belong to rural area and 4,872 (25.25%) households belong to urban area. West Tripura district has a total of 11,921 households of which 7,964 (66.81%) households belong to rural area and 3,957 (33.19%) households belong to urban area. The total households in South Tripura district stands at 2,947 of which 2558 (86.80%) belong to rural area and 389 (13.20%) 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	19,296	14,424	4,872	74.75	25.25
West Tripura	11,921	7,964	3,957	66.81	33.19
South Tripura	2,947	2,558	389	86.80	13.20

Source: Census of India, 2011

III. LEGAL & REGULATORY FRAMEWORK

3.1. Overview

42. In India, compensation for land acquisition (LA) and rehabilitation for project affected persons/families is directed 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. For transmission/distribution line project, land for tower/pole and right of way is not acquired[5] and ownership of land remains with the owner and is allowed to continue cultivation after construction. However, as per existing laws[6] compensation for all damages are paid to the individual land owner. The relevant national laws applicable for transmission/distribution project are (i) The Electricity Act, 2003 and (ii) The Indian Telegraph Act, 1885 and (iii) MoP guidelines on 15th October, 2015 for payment of compensation toward damages in regard to RoW. The compensation principles adopted for this project shall comply with applicable laws and regulations of the Government of India/ State Govt,, World Bank's Safeguard Policies and TSECL's ESPPF.

3.2. Statutory Requirements

43. 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 Deptt. of Power, Govt. of Tripura notification dated 20th 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 are paid to the individual land owner as per the provision of Section-10 (d) of Indian Telegraph Act, 1885.

44. 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:

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[6] *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*

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 thereunder, cause as little damage, detriment and inconvenience as may be, and 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).

3.2.3. MoP guidelines dated 15th October, 2015 for payment of compensation toward damages in regard to RoW

45. Ministry of Power (MoP) vide its order No. 3/7/2015-Trans dated 15th April'15 constituted a Committee comprising of representatives of various State Govt., MoP, Central Electricity Authority (CEA) & POWERGRID under the chairmanship of Special Secretary, MoP to analyze the issues relating to Right of Way for laying of transmission lines in the country and to suggest a uniform methodology for payment of compensation on this account. Based on recommendation of the

Committee, Ministry of Power, Govt. of India vide its notification dated 15th Oct'15 has issued guidelines for payment of compensation for damages in regard to RoW (**Annexure-2**). As per the said guidelines, followings compensation shall be paid to all affected farmers/land owners as per norms in addition to normal tree and crop damage compensation

i) **Tower base**: Compensation @ 85% of land value as determined by District Magistrate or any other competent authority based on Circle rate/ Guideline value/ Stamp Act rates for tower base area (between four legs).

ii) **Line corridor**: Compensation @ maximum 15% of land value towards diminution of land value in the width of RoW corridor as determined by District Magistrate or any other competent authority based on Circle rate/ Guideline value/ Stamp Act.

46. Ministry of Power (MoP) has also written to all the States for taking suitable decisions regarding adoption of these guidelines considering that acquisition of land is a State subject. However, till date Govt. of Tripura has not adopted the said guidelines for implementation.

3.3. World Bank's Environmental & Social Safeguard Policies

47. 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

Operational Policy (OP)	Policy Objectives
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.

3.4. TSECL's ESPPF

48. 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.

49. 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.

50. 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 RoWs, land acquisition or loss of livelihood.
(v) Encourage consultation with communities in identifying environmental and social implications of projects.
(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.

3.5. Basic Principles for the Project

51. 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.

52. 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 due to construction of overhead lines, cash compensation payable by cheque/through online transfer will be provided during construction works. Further, cash compensation (by cheque/ online

transfer) to the APs for the temporary loss of crop and loss of trees if occurred, during the time of maintenance and repair.

IV. PROJECT IMPACTS

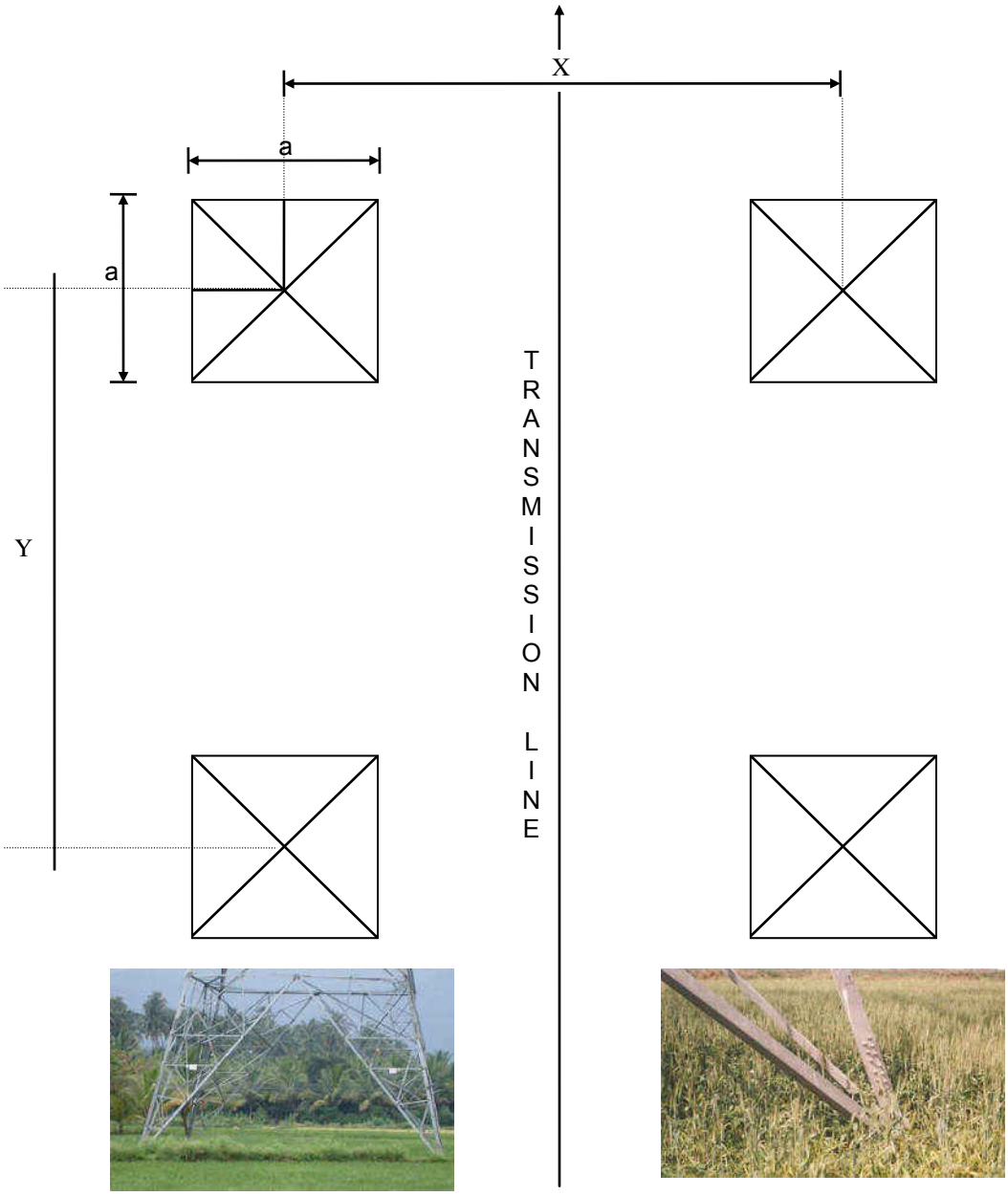
4.1. General

53. The project does not require any private land acquisition for construction of transmission/distribution lines. Therefore, no physical displacement is foreseen in the project. 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/pole schedule depicting location & its coordinate including major crossings along with maps of proposed route alignment is placed as **Annexure-3.** Therefore, the CPTD remains as draft, as actual temporary impacts shall be known only during implementation which will be based on the detailed design and final/check survey once the construction contractor is mobilized for implementation. The details of land use have been gathered to have an idea about the temporary damages that might occur during construction of the transmission and distribution lines. The corridor of width (Right of Way) required for 132 KV D/C transmission line is 27 meter whereas, the 33 kV distribution lines it is considered as 15 meter.

54. 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.

55. 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 33 kV distribution line area that becomes unavailable because of the erection of pole is insignificant as approx. 1 sq. ft. land area is occupied for one pole (refer Figure. 4.2 depicting actual base area impact). Due diligence confirms that land is either agricultural or barren, and

Figure- 4.1: Typical Plan of Transmission Line Tower Footing

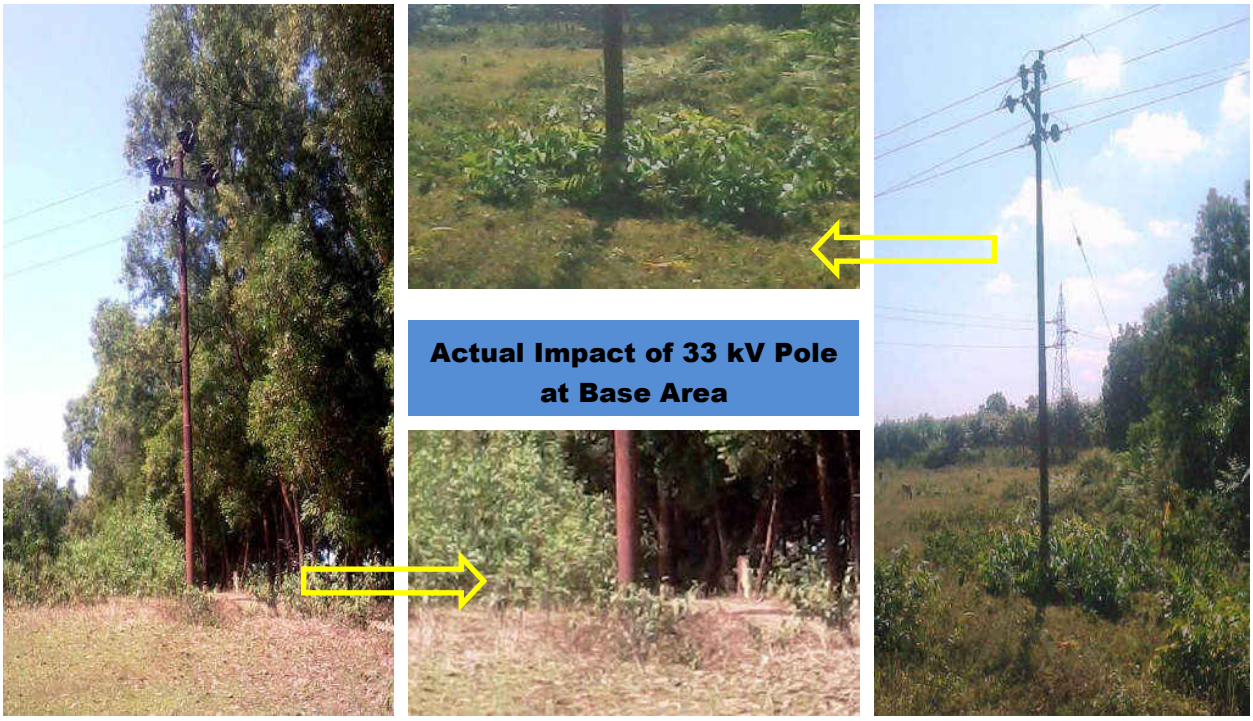


INDICATIVE MEASURES

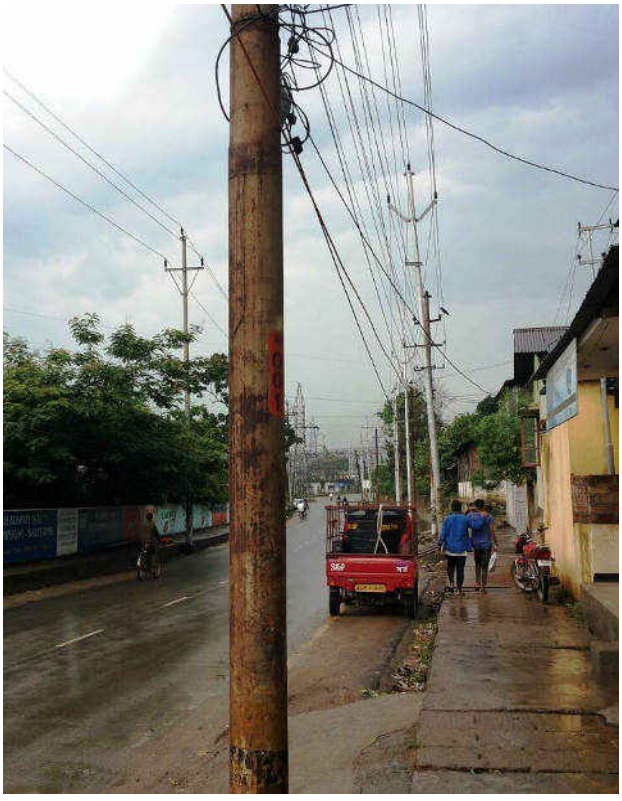
X & Y = 5-10 METERS

a = 200- 300 mm

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



Actual Impact of 33 kV Pole at Base Area



33 kV line inside city area of Assam

33 kV (H Pole) line inside substation

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. Once Govt. of Tripura adopt the MoP guidelines dated 15th Oct,'15 , compensation toward damages in regard to RoW shall be paid as per the norms in addition to normal crop and tree damages .

56. Crops: Construction of line in crop season is avoided as far as possible. In case when installation of towers/poles 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.

57. Trees: Construction of line in fruit bearing season is avoided as far as possible. Tree compensation is calculated on the basis of tree enumeration, tree species and an 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 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.

58. Other Damages: Like bunds, water bodies, fish ponds, approach paths, drainage and irrigation canals 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 headman/ Sarpanch and respective acknowledgements are obtained and POWERGRID/ TSECL pays the compensation. Hindrances to power, telecom carrier & communication lines etc. shall be paid as per Govt. norms.

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

59. The project components consist of establishment of 3 nos. of new 132/33kV substation & 15 nos. new 33/11kV substations as well as extension work of 132/33 kV Rokhia, Dhalabi & Jirania located in West Tripura, South Tripura, Khowai & Sepahijala districts of Tripura. Land for

all new substations are already in possession with TSECL. Further, extension of the proposed substations will be done within the existing substations campus and the land belongs to 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	Remarks
132/33 kV new substation at Rabindranagar	No	Nil	Nil	TSECL land
132/33 kV new substation at Gokulnagar	No	Nil	05	
132/33 kV new substation at Mohanpur	No	Nil	Nil	
Extension of 132/33 kV substation at Rokhia	No	Nil	Nil	
Extension of 132/33 kV substation at Dhalabi	No	Nil	Nil	
Extension of 132/33 kV substation at Jirania	No	Nil	Nil	
33/11 kV new substation at Khowai	No	Nil	Nil	
33/11 kV new substation at Simna	No	Nil	Nil	
33/11 kV new substation at Barkathal	No	Nil	Nil	
33/11 kV new substation at Bamutia	No	Nil	01	
33/11 kV new substation at Lembucherra	No	Nil	Nil	
33/11 kV new substation at Champaknagar	No	Nil	Nil	
33/11 kV new substation at Ranir Bazar	No	Nil	Nil	
33/11kV new substation at ADC H. Quarter	No	Nil	Nil	
33/11 kV new substation at Munkiakami	No	Nil	Nil	
33/11 kV new substation at Sekerkote	No	Nil	Nil	
33/11 kV new substation at Golaghati	No	Nil	Nil	
33/11 kV new substation at Durganagar	No	Nil	Nil	
33/11 kV new substation at Nidya,	No	Nil	Nil	
33/11 kV new substation at Nalchar	No	Nil	Nil	
33/11 kV new substation at Gabardi.	No	Nil	Nil	

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

60. The line 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 transmission/distribution lines and considering the total line length of the line and its right of way. The total line length is 302.958 kilometres (km) which will impact an estimated of 2021.04acres[7] of land. These include 30.368 km of line passing through agricultural land (202.604 acres of agricultural land), 22.766 km of private plantation (151.786

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

acres of private plantation), 36.192 km of forest land (241.458 acre of forest land) and 213.595 km of government/barren land (1425.25 acres of government land). 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/Hectare)

Sl. No.	Name of the Line	RoW (in mtr)	Agricultural land	Private Plantation	Forest	Govt/ Barren	Total
A.	**Transmission Line**						
1	Rokhia-Rabindranagar 132 kV D/c	27	8.750 km (58.377 acre)	6.391 km (42.638 acre)	6.890 km (45.967 acre)	Nil	22.031 km (146.982 acre)
2	Rabindranagar-Belonia 132 kVD/c		19.977 km (133.275 acre)	13.872 km (92.541 acre)	29.302 km (195.40 acre)	Nil	63.151 km (421.340 acre)
3	LILO of 132kV Rokhia-Surjamaninagar line at Gokulnagar		0.654 km (4.363 acre)	2.266 km (15.118 acre)	Nil	Nil	2.920 km (19.481 acre)
4	LILO of 132kV Agartala-Dhalabil line at Mohanpur		0.987 km (6.585 acre)	0.237 km (1.581 acre)	Nil	Nil	1.24 km (8.270 acre)
B.	**Distribution Line**						
5	Khowai–Dhalabil 33 kV	15	Nil	Nil	Nil	6.643 km (24.62 acre)	6.643 km (24.62 acre)
6	Khowai–Ampura 33 kV		Nil	Nil	Nil	13.192 km (48.897 acre)	13.192 km (48.897 acre)
7	Simna-Hezamara 33 kV		Nil	Nil	Nil	11.979 km (44.40 acre)	11.979 km (44.40 acre)
8	Simna - Tapping of Mohanpur – Hezamara 33 kV		Nil	Nil	Nil	14.523 km (53.83 acre)	14.523 km (53.83 acre)
9	Barkathal - Hezamara 33 kV		Nil	Nil	Nil	11.67 km (43.26 acre)	11.67 km (43.26 acre)
10	Barkathal - Mohanpur 33 kV		Nil	Nil	Nil	9.442 km (34.997 acre)	9.442 km (34.997 acre)
11	Bamutia - Durjoynagar 33 kV					14.00 km (51.89 acre)	14.00 km (51.89 acre)
12	Bamutia - Lembucherra 33 kV		Nil	Nil	Nil	8.121 km (30.10 acre)	8.121 km (30.10 acre)
13	2 x 33 kV line from Lembucherra - LILO of 33kV Agartala-Mohanpur		Nil	Nil	Nil	1.051 km (3.896 acre)	1.051 km (3.896 acre)
14	2 x 33 kV line from Champaknagar-Jirania		Nil	Nil	Nil	5.957 km (22.08 acre)	5.957 km (22.08 acre)
15	2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur-Jirania Line		Nil	Nil	Nil	0.809 km (2.999 acre)	0.809 km (2.999 acre)

16	ADC Head Qtr. - Jirania 33 kV		Nil	Nil	Nil	3.546 km (13.144 acre)	3.546 km (13.144 acre)
17	ADC Head Qtr. – Champaknagar 33 kV		Nil	Nil	Nil	10.756 km (39.87 acre)	10.756 km (39.87 acre)
18	33 kV Munkiakami - LILO of 33kV Ambasa- Teliamura		Nil	Nil	Nil	6.631 km (24.58 acre)	6.631 km (24.58 acre)
19	2 x 33 kV line from Sekerkote - LILO of 33kV Badharghat-Jangalia Line		Nil	Nil	Nil	10 km (37.06 acre)	10 km (37.06 acre)
20	Golaghati-Gakulnagar 33 kV		Nil	Nil	Nil	13.808 km (51.18 acre)	13.808 km (51.18 acre)
21	Golaghati - Takarjala 33 kV		Nil	Nil	Nil	10.464 km (38.79 acre)	10.464 km (38.79 acre)
22	Durganagar - Gakulnagar 33 kV		Nil	Nil	Nil	7.005 km (25.97 acre)	7.005 km (25.97 acre)
23	Durganagar - Madhupur 33 kV		Nil	Nil	Nil	10.703 km (39.67 acre)	10.703 km (39.67 acre)
24	Nidya - Kathalia 33 kV		Nil	Nil	Nil	9.364 km (34.71 acre)	9.364 km (34.71 acre)
25	Nidya – Rajnagar 33 kV		Nil	Nil	Nil	17.745 km (65.77 acre)	17.745 km (65.77 acre)
26	Nalchar - Melaghar 33 kV		Nil	Nil	Nil	6.742 km (24.99 acre)	6.742 km (24.99 acre)
27	Nalchar-Bishramganj 33 kV		Nil	Nil	Nil	8.7 km (32.25 acre)	8.7 km (32.25 acre)
28	33 kV Gabardi - LILO of 33 kV Surjamani nagar-Takarjala Line		Nil	Nil	Nil	0.807 km (2.99 acre)	0.807 km (2.99 acre)
Total			**30.368 km (202.604 acre)**	**22.776 km (151.786 acre)**	**36.192 km (241.458 acre)**	**213.595 km (1425.25 acre)**	**302.958 km (2021.04 acre)**

Source: Detailed Survey

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

61. 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 132 kV D/c) 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 33 kV distribution lines, 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.

62. 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 262.585 acres. 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 Agricultu-ral Land (km)	Total Private Plantation (km)	Total Line Length Considered for Crop Compensation (km)	Total Land Area considered for Crop Compensation (Acre)
Rokhila - Rabindranagar 132 kV D/c	20	8.750	6.391	15.141	74.826
Rabindranagar-Belonia 132 kV D/c		19.977	13.872	33.849	167.279
LILO of 132kV Rokhia-Surjamaninagar line at Gokulnagar		0.654	2.266	2.92	14.430
LILO of 132kV Agartala-Dhalabil line at Mohanpur		0.987	0.237	1.224	6.049
Khowai–Dhalabil 33 kV	10	Nil	Nil	Nil	Nil
Khowai–Ampura 33 kV		Nil	Nil	Nil	Nil
Simna-Hezamara 33 kV		Nil	Nil	Nil	Nil
Simna - Tapping of Mohanpur-Hezamara 33 kV		Nil	Nil	Nil	Nil
Barkathal - Hezamara 33 kV		Nil	Nil	Nil	Nil
Barkathal - Mohanpur 33 kV		Nil	Nil	Nil	Nil
Bamutia-Durjoynagar 33 kV		Nil	Nil	Nil	Nil
Bamutia-Lembucherra 33 kV		Nil	Nil	Nil	Nil
Lembucherra - LILO of 33kV Agartala-Mohanpur Line		Nil	Nil	Nil	Nil
2 x 33 kV line from Champaknagar- Jirania		Nil	Nil	Nil	Nil
2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania		Nil	Nil	Nil	Nil
ADC Head Qtr. - Jirania 33 kV		Nil	Nil	Nil	Nil
ADC Head Qtr. – Champaknagar 33 kV		Nil	Nil	Nil	Nil
Sekerkote - LILO of 33kV		Nil	Nil	Nil	Nil

Badharghat- Jangalia Line					
Golaghati- Gakulnagar 33 kV		Nil	Nil	Nil	Nil
Golaghati - Takarjala 33 kV		Nil	Nil	Nil	Nil
Durganagar –Gakulnagar 33 kV		Nil	Nil	Nil	Nil
Durganagar - Madhupur 33 kV		Nil	Nil	Nil	Nil
Nidya - Kathalia 33 kV		Nil	Nil	Nil	Nil
Nidya – Rajnagar 33 kV		Nil	Nil	Nil	Nil
Nalchar - Melaghar 33 kV		Nil	Nil	Nil	Nil
Nalchar- Bishramganj 33 kV		Nil	Nil	Nil	Nil
33 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala Line		Nil	Nil	Nil	Nil
Total		**30.368**	**22.766**	**53.134**	**262.585**

Source: Detailed Survey

4.3.3 Actual loss of land for Tower Base & Pole

63. 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 132 kV T/L tower and one pole for 33 kV D/L is approx. 0.25 sq.m & 0.092 sq.m. respectively. Based on above, total land loss for construction of 89.326 km of 132 kV transmission line and 213.595 km of 33 kV distribution line proposed under the present scheme is estimated to be 0.204 acre. However, compensation toward loss of land shall be provided to APs which is part of RoW compensation. Details 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/Pole (Nos.)	Land loss per tower/ pole base (sq.m.)	Total land loss area for tower & pole base (sq.m.)
Rokhia-Rabindranagar 132 kV D/c	22.031	88	0.25	22
Rabindranagar-Belonia 132 kV D/c	63.151	108	0.25	27
LILO of 132kV Rokhia-Surjamaninagar line at Gokulnagar	2.92	14	0.25	3.5
LILO of 132kV Agartala-Dhalabil line at Mohanpur	1.224	06	0.25	1.5
Khowai–Dhalabil 33 kV	6.643	265	0.092	24.38

Khowai–Ampura 33 kV	13.192	519	0.092	47.748
Simna-Hezamara 33 kV	11.979	422	0.092	38.824
Simna - Tapping of Mohanpur – Hezamara 33 kV	14.523	479	0.092	44.068
Barkathal - Hezamara 33 kV	11.67	550	0.092	50.6
Barkathal - Mohanpur 33 kV	9.442	366	0.092	33.672
Bamutia - Durjoynagar 33 kV	14.00	458	0.092	42.136
Bamutia - Lembucherra 33 kV	8.121	339	0.092	31.188
2 x 33 kV line from Lembucherra - LILO of 33kV Agartala-Mohanpur	1.051	56	0.092	5.152
2 x 33 kV line from Champaknagar-Jirania	5.957	221	0.092	20.332
2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania Line	0.809	24	0.092	2.208
ADC Head Qtr. - Jirania 33 kV	3.546	151	0.092	13.892
ADC Head Qtr. –Champaknagar 33 kV	10.756	400	0.092	36.8
33 kV Munkiakami - LILO of 33kV Ambasa- Teliamura Line	6.631	300	0.092	27.6
2 x 33 kV line from Sekerkote - LILO of 33kV Badharghat- Jangalia Line	10.00	385	0.092	35.42
Golaghati- Gakulnagar 33 kV	13.808	452	0.092	41.584
Golaghati - Takarjala 33 kV	10.464	470	0.092	43.24
Durganagar - Gakulnagar 33 kV	7.005	290	0.092	26.68
Durganagar - Madhupur 33 kV	10.703	420	0.092	38.64
Nidya - Kathalia 33 kV	9.364	394	0.092	36.248
Nidya – Rajnagar 33 kV	17.745	641	0.092	58.972
Nalchar - Melaghar 33 kV	6.742	292	0.092	26.864
Nalchar- Bishramganj 33 kV	8.7	423	0.092	38.916
33 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala Line	1.431	79	0.092	7.268
Total				**826.42 ≅0.204 acre**

4.3.4 Land area for RoW compensation as per MoP Guidelines

64. As per the MoP guidelines on RoW compensation, provisional land area to be considered for land compensation has been calculated for proposed 132 kV D/c lines. However, land compensation @ 85% land value for tower base & @ maximum 15% land value for width of RoW

corridor will be paid to land owners/farmer, if the said guideline is adopted by Govt. of Tripura for implementation. Details of calculation of land areas to be considered for such compensation are given in **Table 4.5.**

Table 4.5 Land area for RoW 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)	*RoW Corridor area per km (In acre)	Total land area for RoW Corridor (In acre)	Total Land area (In acre)
Rokhila-Rabindranagar 132 kV D/c	22.031	88	0.036	0.793	6.635	146.176	146.969
Rabindranagar-Belonia 132 kV D/c	63.151	108	0.036	2.273	6.635	419.007	421.280
LILO of 132kV Rokhia-Surjamaninagar line at Gokulnagar	2.92	14	0.036	0.105	6.635	19.374	19.479
LILO of 132kV Agartala-Dhalabil line at Mohanpur	1.224	06	0.036	0.044	6.635	8.121	8.156
Total							**595.894**

* ***Effective RoW corridor area has been considered after excluding tower base area.***

4.3.5. Loss of Trees

65. Total numbers of trees likely to be affected due to construction of 89.326 km of 132kV line and for 213.595 km of 33kV distribution line is approx. 46060 which are private trees and none of the trees are encountered in govt. land. Additionally, 1633 nos. private bamboo trees are likely to be affected. The major species to be affected are Bamboo (*Bambusa vulgaris*) & Betel nut (*Areca catechu*). During construction, private trees will be compensated as per the entitlement matrix. Details on number of trees for each 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)
Rokhila-Rabindranagar 132 kV D/c	10461 + 50 Bamboo	Nil	10461 + 50 Bamboo
Rabindranagar-Belonia 132 kV D/c	32749 + 1200 Bamboo	Nil	32749 + 1200 Bamboo
LILO of 132kV Rokhia-Surjamaninagar line at Gokulnagar	2682 +13 Bamboo	Nil	2682 +13 Bamboo
LILO of 132kV Agartala-Dhalabil line at Mohanpur	168 + 370 Bamboo	Nil	168 + 370 Bamboo
Khowai–Dhalabil 33 kV	Nil	Nil	Nil
Khowai–Ampura 33 kV	Nil	Nil	Nil
Simna-Hezamara 33 kV	Nil	Nil	Nil

Simna - Tapping of Mohanpur – Hezamara 33 kV	Nil	Nil	Nil
Barkathal - Hezamara 33 kV	Nil	Nil	Nil
Barkathal - Mohanpur 33 kV	Nil	Nil	Nil
Bamutia - Durjoynagar 33 kV	Nil	Nil	Nil
Bamutia - Lembucherra 33 kV	Nil	Nil	Nil
2 x 33 kV line from Lembucherra - LILO of 33kV Agartala-Mohanpur	Nil	Nil	Nil
2 x 33 kV line from Champaknagar- Jirania	Nil	Nil	Nil
2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania Line	Nil	Nil	Nil
ADC Head Qtr. - Jirania 33 kV	Nil	Nil	Nil
ADC Head Qtr. –Champaknagar 33 kV	Nil	Nil	Nil
33 kV Munkiakami - LILO of 33kV Ambasa- Teliamura Line	Nil	Nil	Nil
2 x 33 kV line from Sekerkote - LILO of 33kV Badharghat-Jangalia Line	Nil	Nil	Nil
Golaghati- Gakulnagar 33 kV	Nil	Nil	Nil
Golaghati - Takarjala 33 kV	Nil	Nil	Nil
Durganagar - Gakulnagar 33 kV	Nil	Nil	Nil
Durganagar - Madhupur 33 kV	Nil	Nil	Nil
Nidya - Kathalia 33 kV	Nil	Nil	Nil
Nidya – Rajnagar 33 kV	Nil	Nil	Nil
Nalchar - Melaghar 33 kV	Nil	Nil	Nil
Nalchar- Bishramganj 33 kV	Nil	Nil	Nil
33 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala Line	Nil	Nil	Nil
Total	**46060 + 1633 Bamboo**	**NIL**	**46060 + 1633 Bamboo**

Source: Detailed Survey

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

66. It has been observed during survey that approximately 03 numbers of small structures exist along the right of way of proposed 132 kV line only. 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 in cash as per the entitlement matrix. 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
Rokhila-Rabindranagar 132 kV D/c	Nil
Rabindranagar-Belonia 132 kV D/c	03
LILO of 132kV Rokhia- Surjamaninagar line at Gokulnagar	Nil

LILO of 132kV Agartala-Dhalabil line at Mohanpur	Nil
Khowai–Dhalabil 33 kV	Nil
Khowai–Ampura 33 kV	Nil
Simna-Hezamara 33 kV	Nil
Simna - Tapping of Mohanpur – Hezamara 33 kV	Nil
Barkathal - Hezamara 33 kV	Nil
Barkathal - Mohanpur 33 kV	Nil
Bamutia - Durjoynagar 33 kV	Nil
Bamutia - Lembucherra 33 kV	Nil
2 x 33 kV line from Lembucherra - LILO of 33kV Agartala-Mohanpur	Nil
2 x 33 kV line from Champaknagar- Jirania	Nil
2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania Line	Nil
ADC Head Qtr. - Jirania 33 kV	Nil
ADC Head Qtr. –Champaknagar 33 kV	Nil
33 kV Munkiakami - LILO of 33kV Ambasa- Teliamura Line	Nil
2 x 33 kV line from Sekerkote - LILO of 33kV Badharghat-Jangalia	Nil
Golaghati- Gakulnagar 33 kV	Nil
Golaghati - Takarjala 33 kV	Nil
Durganagar - Gakulnagar 33 kV	Nil
Durganagar - Madhupur 33 kV	Nil
Nidya - Kathalia 33 kV	Nil
Nidya – Rajnagar 33 kV	Nil
Nalchar - Melaghar 33 kV	Nil
Nalchar- Bishramganj 33 kV	Nil
33 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala Line	Nil
Total	**03**

Source: Detailed Survey

4.4. Details of Affected Persons

67. It is estimated that total number of affected persons which may be impacted temporarily will be approximately 983. Details are given in **Table 4.8.** 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
Rokhila-Rabindranagar 132 kV D/c	242
Rabindranagar-Belonia 132 kV D/c	695
LILO of 132kV Rokhia- Surjamaninagar line at Gokulnagar	32
LILO of 132kV Agartala-Dhalabil line at Mohanpur	14
Khowai–Dhalabil 33 kV	Nil
Khowai–Ampura 33 kV	Nil
Simna-Hezamara 33 kV	Nil
Simna - Tapping of Mohanpur – Hezamara 33 kV	Nil

Barkathal - Hezamara 33 kV	Nil
Barkathal - Mohanpur 33 kV	Nil
Bamutia - Durjoynagar 33 kV	Nil
Bamutia - Lembucherra 33 kV	Nil
2 x 33 kV line from Lembucherra - LILO of 33kV Agartala-Mohanpur Line	Nil
2 x 33 kV line from Champaknagar- Jirania	Nil
2 x 33 kV Ranir Bazar - LILO of 33kV Khayerpur- Jirania Line	Nil
ADC Head Qtr. - Jirania 33 kV	Nil
ADC Head Qtr. –Champaknagar 33 kV	Nil
33 kV Munkiakami - LILO of 33kV Ambasa- Teliamura Line	Nil
2 x 33 kV line from Sekerkote - LILO of 33kV Badharghat- Jangalia Line	Nil
Golaghati- Gakulnagar 33 kV	Nil
Golaghati - Takarjala 33 kV	Nil
Durganagar - Gakulnagar 33 kV	Nil
Durganagar - Madhupur 33 kV	Nil
Nidya - Kathalia 33 kV	Nil
Nidya – Rajnagar 33 kV	Nil
Nalchar - Melaghar 33 kV	Nil
Nalchar- Bishramganj 33 kV	Nil
33 kV Gabardi - LILO of 33 kV Surjamani nagar- Takarjala Line	Nil
Total	**983**

Source: Detailed Survey

4.5 Other Damages

68. As far as possible damages to bunds, water bodies, fish ponds, approach paths, drainage and irrigation canals etc. are avoided. However, if damaged during construction activities, compensation as per practice is paid 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 pays 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

69. 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; and
(v) social and economic backwardness before notifying them as a Scheduled Tribe.

70. 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, 7,133 sq. km (about 68%) is under the TTAADC. The Sixth Schedule areas are governed through "Autonomous District Councils" (ADC) that has wide-ranging legislative and executive powers.

71. The instant project is being implemented in West Tripura, South Tripura, Khowai & Sepahijala 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.

4.8. Summary of Impacts

72. 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
Length of Transmission/Distribution Line (Km)	89.326/ 213.595 km
Number of Towers/ Poles (Nos.)	216/ 7553
Total Area under RoW (in acre)	**2021.04**
Total APs (Nos.)	983
Affected Structures (Small Sheds for agricultural purpose(Nos.))	03
Area of Temporary Damages for crop compensation (in acre)	262.585
Total Trees (Nos.)	46060 + 1633 Bamboo

Source: Detailed Survey

V. ENTITLEMENTS, ASSISTANCE AND BENEFITS

5.1. Entitlements

73. There is no involuntary acquisition of land involved; only temporary damage will occur during construction of transmission/distribution 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.

74. 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

75. 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.	Land coming in corridor of width of Right of Way **(#)**	Owner	15% of land cost as decided by District Commissioner or any other competent authority
3.	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.
4..	Other damages (if applicable)	All APs	Actual cost as assessed by the concerned authority.
5.	Loss of structure		
(i)	House	Titleholders	Cash compensation at replacement cost (without deduction for salvaged material and depreciation

Sl.	Type of Issue/ Impact	Beneficiary	Entitlement Options
			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
6.	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
7.	Tribal/ Vulnerable APs	Vulnerable APs8	One time additional lump sum assistance not exceeding 25% of total compensation on recommendation of State Authority/ADC/VC.

(#) Compensation for land value as per MoP guidelines dated 15.10.2015 shall be paid once Govt. of Tripura adopt the said guidelines for implementation.

* ***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

76. In exercise of the powers conferred by section 164 of the Electricity Act, 2003, Deptt. of Power, Govt. of Tripura vide notification dated 20th 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 immoveable 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:

77. 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.:

[8] Vulnerable APs include scheduled tribes residing in scheduled areas/ physically handicapped/ disabled families etc.

78. 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 center 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
- 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.

79. 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 inevitability 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.

80. 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 inevitability 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.

81. 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.

82. 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 Center 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.

83. 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 & RoW Corridor

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. However, TSECL/POWERGRID shall pay the land compensation for tower footing and RoW corridor as per prescribed norms once Govt. of Tripura adopt MoP guidelines of Oct,'15 for implementation in State.

5.5. Compensation for Structure

84. No physical displacement is envisaged in the proposed project. Displacement of structures is normally not envisaged due to flexibility of routing of transmission/distribution line. However, whenever it is necessary, compensation for structures as per entitlement matrix shall be provided **(refer Table 5.1)**. In the instant case, 03 number of small structures likely to be encountered in the right of way of proposed transmission/distribution lines. 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 parallely with the construction activity of line.

5.6. Compensation Disbursement Module

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

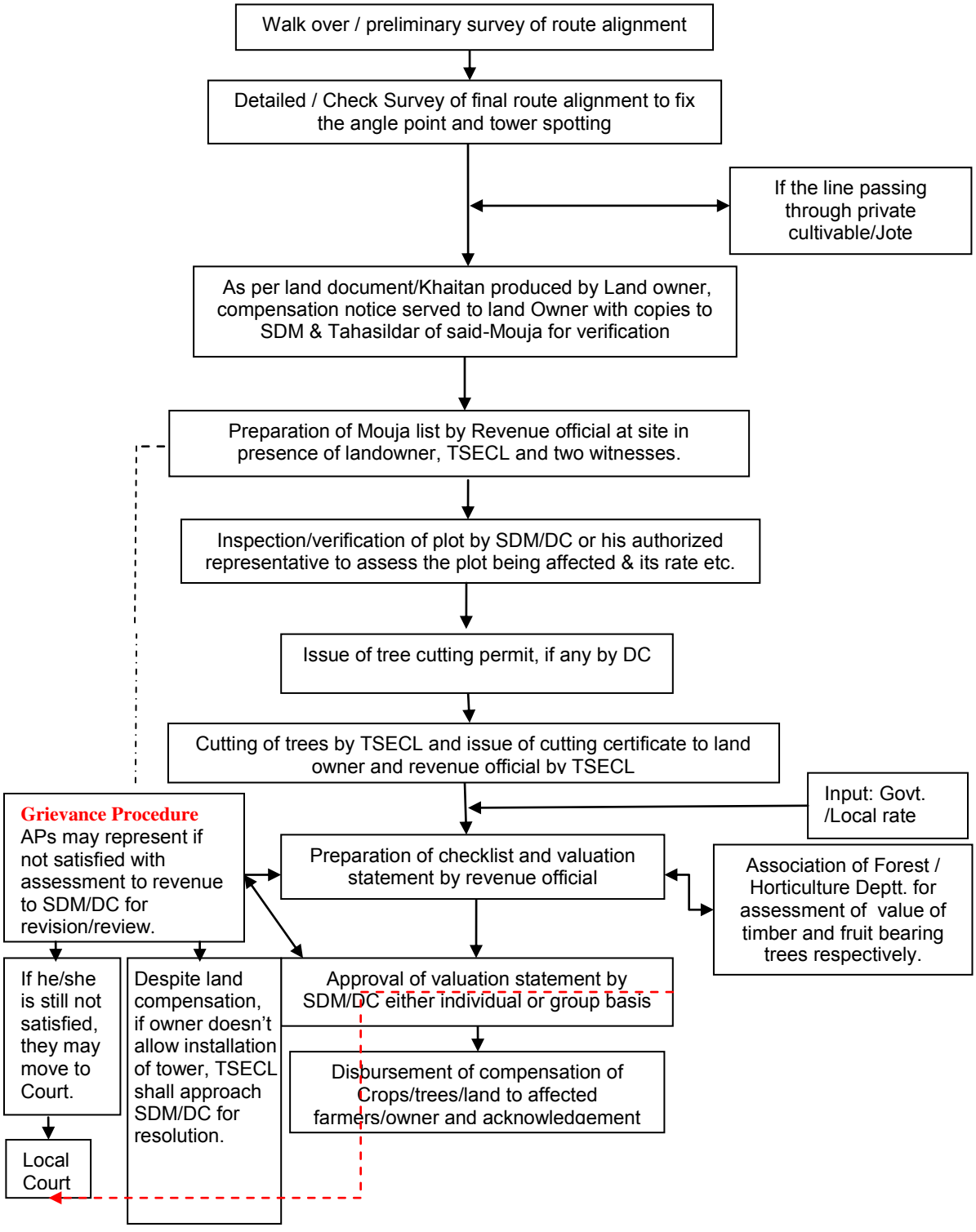
Table 5.2: Compensation Disbursement Module

Activity/Stage	Process	Maximum Time Period from Cut-Off date
Tower Foundation/ Erection/ Stringing	Serving of Notice ***(Cut-off date)***	0 date
	Verification of Ownership by Revenue Deptt.	15 days
	Assessment/Verification of damages by Revenue Deptt.	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

86. 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 and distribution 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 & distribution lines and TSECL approach to minimizing and solving them;
- Trees and crop compensation process.

87. 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. 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 -5**.

Table 6.1 Details of Consultations

Date of meeting	Venue of Meeting	No. of Persons attended	Persons Attended
Public Consultation Meeting			
30.08.2014	BDO Office Conference Hall (Kathalia RD	70	BDO, Local MLA, Representatives of Panchayat including Chairman, Vice Chairman & Members and Village

	Block)		Pradhan etc, local villagers & public in general.
Informal Group Meeting			
08.11.2017	Rastarmatha, Gokulnagar	15	Project affected persons & Local villagers
16.11.2017	Rastarmatha, Mohanpur	17	Project affected persons & Local villagers
18.11.2017	Rastarmatha, Bamutia	20	Project affected persons & Local villagers mostly women

88. During consultations/interaction processes with people of the localized areas, TSECL/POWERGRID field staffs explained benefit of the project, impacts of transmission/distribution line, payment of compensation for damaged of crops, trees, huts etc. as per The Indian Electricity Act, 2003 and The Indian Telegraph Act, 1885 and measures to avoid public utilities such as schools, hospital etc. People more or less welcomed the construction of the proposed project.

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

- To Involve Village headman during survey work/finalization of line corridor;
- To engage local people in various works associated with construction of line and if required proper training may be provided to engage them.
- Early disbursement of compensation;

90. TSECL & POWERGRID representative replied their queries satisfactorily and it was assured that compensation would be paid in time after Revenue department fixed/award the amount.

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

91. 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

92. The CPTD will be disclosed to the affected households and other stakeholders by placing it on website. TSECL & POWERGRID site officials have been visiting construction sites frequently during construction and meet with APs and discuss about norms and practices of damages and compensation to be paid for them. 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. The executive summary of the CPTD/Entitlement Matrix in local language will be placed at construction offices/ sites. The CPTD will 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 period.

VII. INSTITUTIONAL ARRANGEMENTS

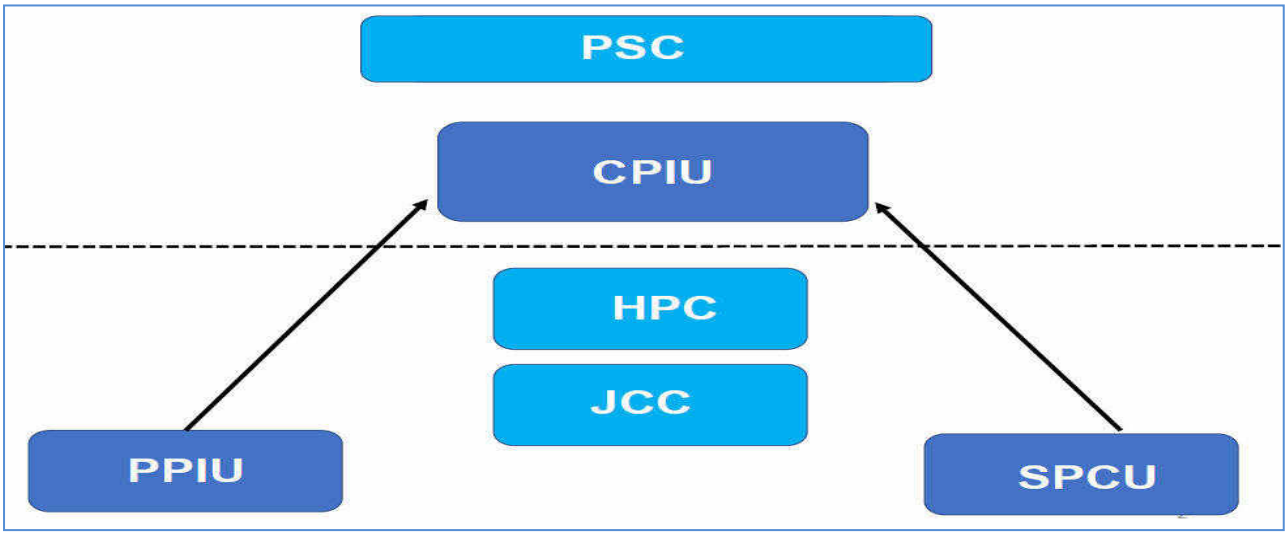
7.1 Administrative Arrangement for Project Implementation

93. 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:

94. 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, GoI and The Bank may join as and when needed. Minutes of the meeting will be shared with all concerned and if required, with GoI 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 GoI 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 GoI and The Bank.

D. A review will be held among MoP, GoI, 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 GoI/ State Government level. Minutes of the meeting shall be prepared by IA and shared with all concerned.

7.3. Arrangement for Safeguard Implementation

95. At the central project implementation level (CPIU) based at Guwahati, POWERGRID has set up an Environmental and Social Management cell (ESMC) which is headed by Dy. General Manager(DGM) to oversee Environmental and Social issues of the projects and to coordinate the SPCU & Site Offices.

96. 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.

97. 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 updation 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

98. 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 and RoW corridor**

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 parallely

VIII. GRIEVANCE REDRESS MECHANISM

99. 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

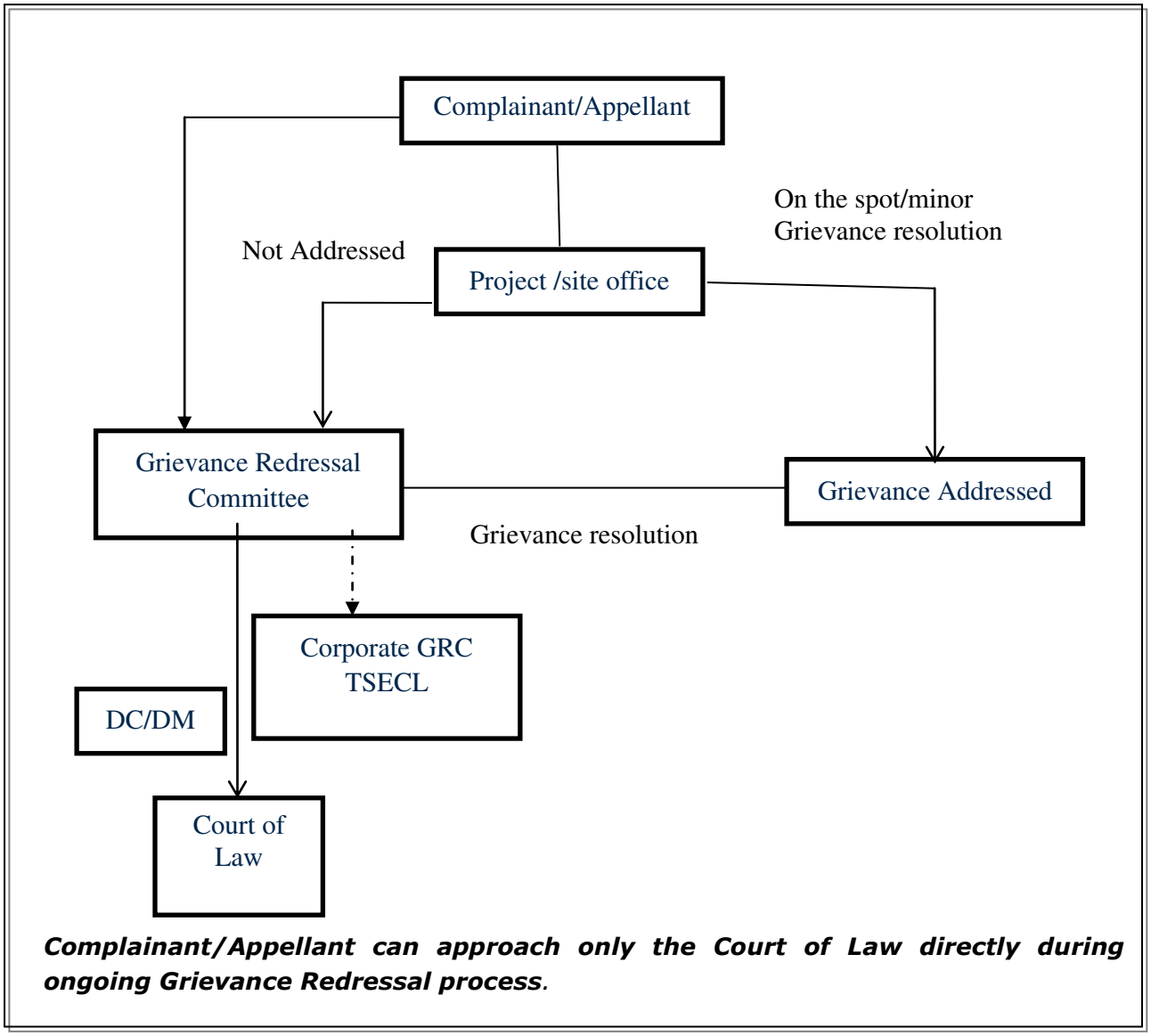
100. The complainant will also be allowed to submit its complaint to local project official who will pass it to GRC immediately but not more than 5 days of receiving such complaint. The first meeting of GRC will be organized within 15 days of its constitution/disclosure to formulate procedure and frequency 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.

101. 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.

102. 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 authorised

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 of Grievance Redress Mechanism



IX. BUDGET

103. 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, a budget provision has been made for compensation for Tower Base (@ 85% of the land cost) and RoW Corridor (max. @15% of the land cost) as per the norms. Accordingly the cost has been estimated for proposed 132 kV line 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 crops losses, other damages etc. As per TSECL & POWERGRID's previous projects and 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. In any case 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 132 kV & 33 kV line respectively.

9.1 Compensation for Land for Tower Base and RoW Corridor

104. The land area for 132 kV tower base is estimated as 0.036 acre per km. Similarly, for RoW corridor the area is estimated 6.635 acre per km. The cost of land is estimated @ Rs. 15 lakh/acre considering the land use type as agriculture land in rural setting. Accordingly the cost of land compensation towards tower base & RoW corridor for overhead line is thus estimated as Rs. 1374.517 Lakhs. A detail of cost is given below in **Table 9.1**.

Table 9.1: Cost of Land Compensation for Tower Base & RoW Corridor

Name of Line	Line Length (Km)	Land Area for Tower Base (acre)	Land Area for RoW Corridor* (acre)	Avg. Cost of Land (Lakhs / acre)	Total in Lakhs (Tower base @ 85% & Corridor @15%)
Rokhia-Rabindranagar 132kV D/C	22.031	0.793	146.176	15.00	339.007
Rabindranagar-Belonia 132kV D/C	63.151	2.273	419.007		971.747

LILO of 132kV Rokhia-Surjamaninagar line at 132/33kV Gokulnagar	2.92	0.105	19.374		44.930
LILO of 132kV Agartala-Dhalabil line at 132/33kV Mohanpur	1.224	0.044	8.121		18.833
TOATL					**1374.517**

**** Effective RoW corridor has been considered after excluding tower base area***

9.2. Compensation for Crops and Trees

105. 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 basis of tree enumeration, tree species and an 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. Details of line wise cost is given in **Table 9.2** below.

Table 9.2: Cost of Compensation for Crops and Trees

Sl No	Name of the Line	Total Length (Km)	Compensation /Km (In Lakh)	Total compensation cost for Crops & trees (Lakh)
1.	Rokhia-Rabindranagar 132kV D/C	22.031	5.0	110.155
2.	Rabindranagar-Belonia 132kV D/C	63.151	5.0	315.755
3.	LILO of 132kV Rokhia-Surjamaninagar at 132/33kV Gokulnagar	2.92	5.0	14.6
4.	LILO of 132kV Agartala-Dhalabil line at 132/33kV Mohanpur	1.224	5.0	6.12
Total				**446.63**

9.3. Summary of Budget

106. The total indicative cost is estimated to be **INR 1885.772 Lakhs** equivalent to **USD 2.74** million. Details are given in **Table 9.3**. The following estimated budget is part of complete project cost as on date. However, actual updation of the estimated cost shall be updated during execution.

Table 9.3: Summary of Budget

Item	Amount in Lakh (INR)	Amount in (Million USD)
A. Compensation		
A-1: Loss of Crops and Trees	446.63	0.65
A-2: Land Compensation for Tower Base and RoW Corridor[9]	1374.517	2.0
Sub Total-A	**1821.147**	**2.65**
B: Implementation Support Cost		
B-1: Man-power involved for CPTD Implem. & Monitoring	4.70	0.0048
B-2: External Monitoring, if required	5.00	0.0052
Sub Total- B	**9.70**	**0.01**
Total (A+B)	**1830.847**	**2.66**
Contingency (3%)	**54.925**	**0.08**
Grand Total	**1885.772**	**2.74**

[9] *Payment of Compensation subject to adoption/implementation of MoP guidelines of Oct.'15 by Govt. of Tripura*

X. IMPLEMENTATION SCHEDULE

107. 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**.

Table 10.1 Tentative Implementation Schedule

Sl. No.	Activity	2017				2018				2019			
		Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
1.	**Initial CPTD Matrix disclosure**												
2.	**Detailed Survey**												
3.	**Public Consultation**												
4.	**Compensation Plan Implementation**												
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												
5.	**Civil Works**												
6.	**Review/ Activity Monitoring**												
i)	Monthly												
ii)	Quarterly												
iii)	Half yearly												
iv)	Annual												
7.	**Grievance redress**												
8.	**CPTD Documentation**												
9.	**External Monitoring, if required**												

XI. MONITORING AND REPORTING

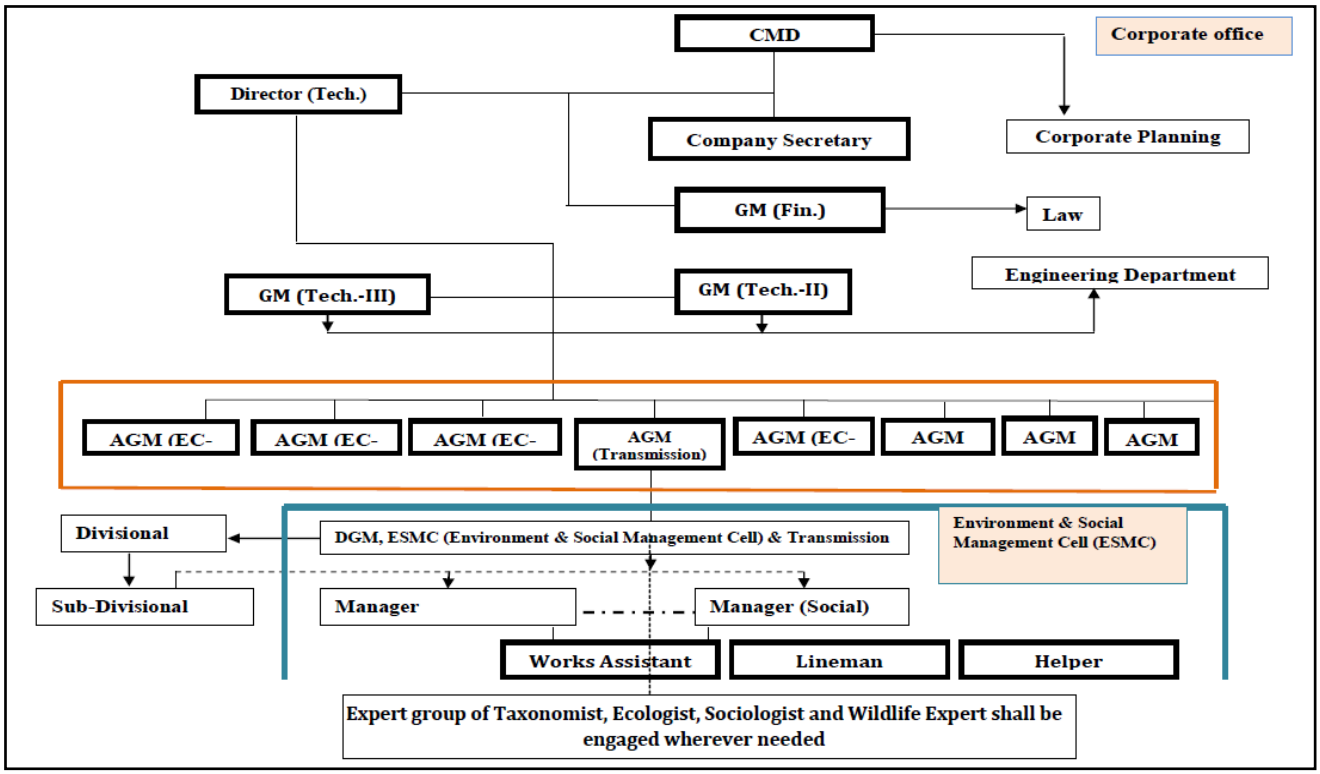
108. Monitoring is a continuous process at all stages of project. Monitoring of CPTD implementation will be the responsibility of POWERGRID as well as the State Utility.

109. 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.

110. 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.

111. 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



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 line are as follows;

1. 132 KV D/C ROKHIA - RABINDRANAGAR TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	**Route particulars** (Bee Line Length - 20 km)			
i.	Route Length (km)	22	25	23
ii.	Terrain			
	Hilly (Gentle slope)	50%	60%	80%
	Plain	50%	40%	20%
2.	**Environmental impact**			
i.	Name of District through which the line passes	Sepahijala	Sepahijala	Sepahijala
ii.	Towns in alignment	No major town. Nearby villages are Rokhia,& Kathalia	Nearby villages are Rokhia,& Kathalia	Nearby villages are Rokhia,& Kathalia
iii.	House within RoW	Shall be ascertained after detailed survey	Shall be ascertained after detailed survey	Shall be ascertained after detailed survey
iv.	Forest involvement in Ha/km	38.34 ha/14.2 km	51.3ha/19 km	45.9ha/ 17 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	Reserved Forest	Reserved Forest
vi.	Density of Forests	Moderate	Moderate	Dense
vii.	Type of flora	Mainly Sal (*Shorea robusta*), Teak (*Tectona grandis*), Rubber (*Hevea Brasiliensis*), *Terminalia bellirica*, Bamboo (*Bambusa indica*) etc.	Mainly Sal (*Shorea robusta*), Teak (*Tectona grandis*), Rubber (*Hevea Brasiliensis*), *Terminalia bellirica*, Bamboo (*Bambusa indica*) etc.	Mainly Sal (*Shorea robusta*), Teak (*Tectona grandis*), Rubber (*Hevea Brasiliensis*), *Terminalia bellirica*, Bamboo (*Bambusa indica*) etc.
viii.	Type of fauna	Crow (*Corvus culminates*), Sparrow (*Passer sp*), Fox (*Vulpes benghalensis*) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow (*Corvus culminates*), Sparrow (*Passer sp*), Fox (*Vulpes benghalensis*) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Crow (*Corvus culminates*), Sparrow (*Passer sp*), Fox (*Vulpes benghalensis*) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, 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.	**Compensation Cost**			
i.	Crop (Non Forest)	Rs 39.00 lakhs (Approx.)	Rs. 30.00 lakhs (Approx.)	Rs. 30.00 lakhs (Approx.)
ii.	Forest (CA, NPV etc.)	Rs. 7.64 Crores (Approx.)	Rs. 10.26 Crores (Approx.)	Rs. 9.18 Crores (Approx.)
4.	**Major Crossings**			
i.	Highway (National/State)	1 (SH)	NIL	NIL
ii.	Power line	Nil	Nil	Nil
iii.	Railway line	Nil	Nil	Nil
iv.	River crossing	1(Gumti River)	1(Gumti River)	1(Gumti River)
5.	**Overall Remarks**	Shortest line length with less forest involvement and minimum tree felling. Line route is easily approachable due to proximity to exiting road	Longer in line length involving maximum forest area and difficultly in accessibility	Line length is not much higher than Alt-1 but involve more forest area and tree felling

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 also involves minimum forest area. Additionally, Alternative-1 has better accessibility and approach due to the fact that it is passing mainly through plain area. Therefore, Alternative-I found to be the most optimum and recommended for detailed survey.

2. 132 KV D/C RABINDRANAGAR-BELONIA TRANSMISSION LINE

S.N	Description	Alternative-I	Alternative-II	Alternative-III
1.	**Route particulars** (Bee Line Length – 31.5 km)			
i	Route Length (km)	62	34.6	32.6
ii.	Terrain			
	Hilly (Gentle slope)	40%	60%	50%
	Plain	60%	40%	50%
2.	**Environmental impact**			
i	Name of District through which the line passes	Sepahijala and some part of South Tripura	Sepahijala and some part of South Tripura	Sepahijala and some part of South Tripura
ii	Towns in alignment	Kathalia, Udaipur, Bagafa & Belonia	Kathalia, & Belonia	Kathalia, & Belonia
iii	House within RoW	Shall be ascertained after detailed survey	Shall be ascertained after detailed survey	Shall be ascertained after detailed survey
iv	Forest involvement in Ha/km	74.95Ha./ 27.75 km	56.7 Ha./ 21 km (7 km Trishna WL)	54 Ha./20 km (8 km Trishna WL)

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	Reserved Forest and Trishna Wildlife Sanctuary	Reserved Forest and Trishna Wildlife Sanctuary
vi	Density of Forests	Moderate	Dense	Dense
vii	Type of flora	Mainly Sal (*Shorea robusta*), Teak (*Tectona grandis*), Rubber (*Hevea Brasiliensis*), *Terminalia bellirica*, Bamboo (*Bambusa indica*) etc.	*Shorea robusta*, *Tectona grandis*, *Dipterocarpus turbinatus*, *Terminal ia bellirica*, *Toona ciliata*, *Albizia procera Bambusa tulda* , *Meloccana baccifera, Pennisetum purpureum* Schuma ch etc	*Shorea robusta*, *Tectona grandis*, *Dipterocarpus turbinatus*, *Terminal ia bellirica*, *Toona ciliata*, *Albizia procera Bambusa tulda* , *Meloccana baccifera, Pennisetum purpureum* Schuma ch etc
viii	Type of fauna	Crow (*Corvus culminates*), Sparrow (*Passer sp*), Fox (*Vulpes benghalensis*) and various species of Monkeys, Cat, Snakes, Pigeon and Lizards, etc.	Bison (*Bos gorus),* Wild Boar *(Sus scrofa), Wild Cat (Felis chaus),* Capped Langur *(Trachypithecus pileatus),* Slow loris *(Nycticebus coucang), Hoolock Gibbon (Hylobates hoolock), Leopard (Panthera pardus),* Fowl (*Gallus gallus)*, *Chinese Pangolin (Manis pentadactyla).* White Breasted Kingfisher (*Halcyon smyrnensis),* Hornbill (*Bucerotidae sp)* etc.	Bison (*Bos gorus),* Wild Boar *(Sus scrofa), Wild Cat (Felis chaus),* Capped Langur *(Trachypithecus pileatus),* Slow loris *(Nycticebus coucang), Hoolock Gibbon (Hylobates hoolock), Leopard (Panthera pardus),* Fowl (*Gallus gallus)*, *Chinese Pangolin (Manis pentadactyla).* White Breasted Kingfisher (*Halcyon smyrnensis),* Hornbill(*Bucerotida e sp)* etc.
ix	Endangered species, if any	Nil	Various species of Trishna WLS	Various species of Trishna WLS
x	Historical/cultural monuments	Nil	Nil	Nil
3	**Compensation Cost**			
i	Crop (Non Forest)	Rs 171.25 lakhs (Approx.)	Rs 68.00 lakhs (Approx.)	Rs 63.00 lakhs (Approx.)
ii	Forest (CA, NPV etc.)	Rs 14.99 Crore (Approx)	Rs 17.42 Crore (Approx)	Rs 17.74 Crore (Approx)
4.	**Major Crossings**			
i	Highway (National/State)	2 (NH-44)	1 (SH)	1 (SH)

S.N	Description	Alternative-I	Alternative-II	Alternative-III
ii	Power line	Nil	Nil	Nil
iii	Railway line	01(one)	Nil	Nil
iv	River crossing	Nil	Nil	Nil
5.	**Overall Remarks**	Although line length is longest, its avoid Trishna Wildlife Sanctuary	Line route involve Trishna Wildlife Sanctuary	Line route involve Trishna Wildlife Sanctuary and Bison Reserve

From the above comparative analysis, it is clear that although Alternative-I is longest route of the all three alternatives studied and also involves more forest area compared to other two alternatives. However, while other two alternatives are passing through Trishna Wildlife Sanctuary, Alternative – I completely avoids it. (the nearest point of Alternative-I is 0.6 Km far from Trishna WL boundary).Further It is also observed that complete avoidance of reserved forest is not possible in any of the route alignments studied around bee line. Therefore, Alternative-I is found more optimum and recommended for detailed survey.

3. Alternative analysis of Distribution 33 kV lines

The distribution lines connect two substations in close vicinity which is intended for providing power supply to the predestined area. The line length are very less starting from 0.807 km to 17. 745 km and has negligible environment and social impact including no involvement of any forest area. Hence, no alternative have been studied for these lines.

ANNEXURE – 2

MOP GUIDELINES DATED 15TH OCT.'15 FOR PAYMENT OF COMPENSATION FOR TRANS LINE

No.3/7/2015-Trans
Government of India
Ministry of Power
Shram Shakti Bhawan
Rafi Marg, New Delhi – 110001

Dated, 15th October, 2015

To

1. Chief Secretaries/Administrators of all the States/UTs
   (As per list attached)
2. Chairperson, CEA, New Delhi with the request to disseminate the above guidelines to all the stakeholders.
3. CMD, PGCIL, Gurgaon.
4. CEO, POSOCO, New Delhi.
5. Secretary, CERC, New Delhi.
6. CMD of State Power Utilities/SEBs

Subject: Guidelines for payment of compensation towards damages in regard to Right of Way for transmission lines.

During the Power Ministers Conference held on April 9-10, 2015 at Guwahati with States/UTs, it has, *inter alia*, been decided to constitute a Committee under the chairmanship of Special Secretary, Ministry of Power to analyse the issues related to Right of Way for laying of transmission lines in the country and to suggest a uniform methodology for payment of compensation on this count. Subsequently, this Ministry had constituted a Committee with representatives from various State Governments and others. The Committee held several meetings to obtain the views of State Governments on the issue and submitted its Report along with the recommendations (copy of the Report is at **Annex-1**).

2. The Recommendations made by the Committee are hereby formulated in the form of following guidelines for determining the compensation towards "damages" as stipulated in section 67 and 68 of the Electricity Act, 2003 read with Section 10 and 16 of Indian Telegraph Act, 1885 which will be in addition to the compensation towards normal crop and tree damages. This amount will be payable only for transmission lines supported by a tower base of 66 KV and above, and not for sub-transmission and distribution lines below 66 KV:-

(i) Compensation @ 85% of land value as determined by District Magistrate or any other authority based on Circle rate/ Guideline value/ Stamp Act rates for tower base area (between four legs) impacted severely due to installation of tower/pylon structure;

(ii) Compensation towards diminution of land value in the width of Right of Way (RoW) Corridor due to laying of transmission line and imposing certain restriction would be decided by the States as per categorization/type of land in different places of States, subject to a maximum of 15% of land value as determined based on Circle rate/ Guideline value/ Stamp Act rates;

(iii) In areas where land owner/owners have been offered/ accepted alternate mode of compensation by concerned corporation/ Municipality under Transfer Development Rights (TDR) policy of State, the licensee /Utility shall deposit compensation amount as per (i) & (ii) above with the concerned Corporation/ Municipality/ Local Body or the State Government.

(iv) For this purpose, the width of RoW corridor shall not be more than that prescribed in the table at **Annex-2**and shall not be less than the width directly below the conductors.

3. Necessary action may kindly be taken accordingly. These guidelines may not only facilitate an early resolution of RoW issues and also facilitate completion of the vital transmission lines through active support of State/ UT administration.

4. All the States/UTs etc. are requested to take suitable decision regarding adoption of the guidelinesconsidering that acquisition of land is a State subject.

Yours faithfully,

Jyoti Arora.

(Jyoti Arora)
Joint Secretary (Trans.)
Tele: 011-2371 0389

Copy, along with enclosure, forwarded to the following:

1. Secretaries of Government of India (Infrastructure Ministries/Deptt including MoEF - As per attached list)
2. Prime Minister's Office (Kind Attn: Shri Nripendra Mishra, Principal Secretary to PM).
3. Technical Director, NIC, Ministry of Power with the request to host on the website of Ministry of Power.

Copy to PS to Hon'ble MoSP (IC) / Secretary (Power) / AS (BNS) / AS (BPP) / All Joint Secretaries/EA/ All Directors/DSs, Ministry of Power.

ANNEXURE – 3

DETAILS OF TOWER/POLE SCHEDULE OF PROPOSED LINES ROUTE ALIGNMENT

Rokhia - Rabindranagar

Proposed 132kV. D/C Transmission Line from ROKHIA to RABINDRANAGAR

Tower Schedule

AP No.	Location No.	Type of Tower	Angle of Deviation		Span in Metre	Cumu. Dist.(M)	Length of Section	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details	Village Name	Type of Foundation	Type of Earthing
								Left	Right	Total	Left	Right	Total						
GANTRY	GNT	GNT	00°00'00"			0		0	150	150	0	240	240	18	9				
					18.11												Rokhia	WET	Pipe
AP01	1/0	DDE	17°35'09"	RT		18.11	18.11	-132	-85	-218	-222	-229	-451	302	151				
					283.89												Rokhia	DRY	Counter Poise
	1/1	DB+09				302	283.89	369	289	658	513	374	887	592	296	Pucca Road, 440 volt Line-2 times, Kancha Road			
					308													DRY	Counter Poise
	1/2	DB+00				610	308	19	277	296	-66	353	286	624	312	11 Kv. Line, Pucca Road			
					315.5													DRY	Counter Poise
AP02	2/0	DC+00	24°18'10"	LT		925.5	315.5	38	123	161	-37	104	67	618	309	Brick Road-2times, Ditch-2 times, 11 Kv. Line			
					302.5												Manikyanagar	WET	Pipe
	2/1	DA+00				1228		180	129	309	198	114	312	609	304				
					306.48													WET	Pipe
AP03	3/0	DB+06	10°47'20"	RT		1534.48	608.98	177	61	239	193	-8	185	647	324				
					340.52												Manikyanagar	WET	Pipe
	3/1	DA+00				1875		279	197	476	349	250	599	567	283	**Cross Arm Modify**			
					226													DRY	Counter Poise
	3/2	DB+00				2101	566.52	29	44	73	-24	-13	-37	493	246				
					266.79													DRY	Counter Poise
AP04	4/0	DB+03	06°15'03"	LT		2367.79	266.79	223	95	318	280	49	329	604	302				
					337.21												Manikyanagar	DRY	Counter Poise
	4/1	DB+09				2705	337.21	242	294	536	288	351	639	747	374				
					410													DRY	Counter Poise
	4/2	DB+09				3115	410	116	144	260	59	142	201	707	354				
					297													DRY	Counter Poise

Proposed 132kV. D/C Transmission Line from ROKHIA to RABINDRANAGAR

Annexure-A10 (Sheet-1)

Tower Schedule

AP No.	Location No.	Type of Tower	Angle of Deviation		Span in Metre	Cumu. Dist.(M)	Length of Section	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details	Village Name	Type of Foundation	Type of Earthing
								Left	Right	Total	Left	Right	Total						
	10/3	DA+00				6965		129	110	239	123	103	226	520	260			DRY	Counter Poise
					240														
	10/4	DA+00				7205		130	119	249	137	125	261	460	230			DRY	Counter Poise
					220														
	10/5	DB+00				7425	740.00	101	297	398	95	364	459	605	302			DRY	Counter Poise
AP11	11/0	DC+00	28°17'58"	RT	384.82														
						7809.82	384.82	87	95	182	21	54	75	705	352	Pucca Road		DRY	Counter Poise
AP12	12/0	DD+00	30°00'31"	LT	319.83												Anandapur	WET	Pipe
						8129.64	319.83	225	113	338	266	103	369	577	288				
					257.02												Anandapur	DRY	Counter Poise
AP13	13/0	DB+00	11°50'47"	LT		8386.66	257.02	144	234	378	154	336	490	404	202	Pucca Road, 220 volt Line, Kancha Road, 11 Kv. Line			
					146.65												Anandapur	DRY	Counter Poise
AP14	14/0	DD+00	30°54'15"	RT		8533.31	146.65	-88	65	-22	-190	68	-122	269	134	Brick Road, 11 Kv. Line, Nallah, pond, 220 volt Line			
					122.25												Kamalnagar	WET	Pipe
AP15	15/0	DC+00	28°40'23"	LT		8655.57	122.25	57	155	212	54	110	164	577	288	Brick Road			
					454.43												Kamalnagar	WET	Pipe
	15/1	DB+03				9110	454.43	299	48	347	345	31	376	604	302	Pond, Ditch, Brick Road			
					149.31													DRY	Counter Poise
AP16	16/0	DD+00	33°55'56"	RT		9259.31	149.31	101	158	259	118	177	295	405	203	Kancha Road-2 times, 220 volt Line-2 times			
					255.69												Kamalnagar	DRY	Counter Poise
	16/1	DB+00				9515	255.69	98	193	291	79	190	269	653	326				
					397													DRY	Counter Poise
	16/2	DA+00				9912		204	119	323	207	119	326	638	319	Nallah			
																		DRY	Counter

Proposed 132kV. D/C Transmission Line from ROKHIA to RABINDRANAGAR

Tower Schedule

AP No.	Location No.	Type of Tower	Angle of Deviation		Span in Metre	Cumu. Dist.(M)	Length of Section	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details	Village Name	Type of Foundation	Type of Earthing
								Left	Right	Total	Left	Right	Total						
					241														
	16/3	DA+00				10153		122	152	273	122	162	284	513	257			DRY	Counter Poise
					272											Kancha Road			
	16/4	DA+00				10425		120	196	316	110	238	349	551	265			DRY	Counter Poise
					258.85											Brick Road, kancha Road			
AP17	17/0	DD+06	48°53'49"	LT		10683.85	1168.85	63	208	271	21	213	234	660	330		Batadola	DRY	Counter Poise
					401.15														
	17/1	DB+03				11085	401.15	193	141	333	188	100	287	813	406			DRY	Counter Poise
					411.52											Nallah			
AP18	18/0	DC+00	20°04'07"	LT		11496.52	411.52	271	237	507	312	348	660	534	267		Batadola	DRY	Counter Poise
					122.42											66 Kv. S/C HT Line			
AP19	19/0	DB+03	13°59'46"	RT		11618.95	122.42	-114	76	-39	-226	18	-208	456	228		Batadola	WET	Pipe
					333.9											Ditch, Pucca Road, 11 Kv. Line			
AP20	20/0	DD+00	51°47'28"	RT		11952.85	333.9	258	217	476	316	227	543	739	370		Motinagar	DRY	Counter Poise
					405.15														
	20/1	DA+03				12358		188	113	301	178	111	289	639	320			DRY	Counter Poise
					234														
	20/2	DA+00				12592		121	270	390	123	349	471	524	262	**Cross Arm Modify**		DRY	Counter Poise
					290														
	20/3	DB+00				12882	929.15	20	89	109	-59	41	-17	617	308			WET	Pipe
					326.82											Nallah, 11 Kv. Line, Ditch, Ditch, 440 volt Line, Brick Road			
AP21	21/0	DD+03	39°34'14"	LT		13208.82	326.82	238	131	369	286	117	403	633	317		Motinagar	DRY	Counter Poise

Proposed 132kV. D/C Transmission Line from ROKHIA to RABINDRANAGAR

Tower Schedule

Tower No.	AP No.	Location No.	Type of Tower	Angle of Deviation		Span in Metre	Cumu. Dist.(M)	Length of Section	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details	Village Name	Type of Foundation	T E
									Left	Right	Total	Left	Right	Total						
49		21/1	DA+03				13515		175	111	287	189	109	299	536	268			DRY	Co F
						230														
50		21/2	DA+00				13745		119	172	291	121	169	290	583	292			DRY	Co F
						353														
51		21/3	DA+03				14098		181	132	313	184	124	308	640	320			DRY	Co F
						287														
52		21/4	DA+00				14385		155	171	327	163	194	357	558	279			DRY	Co F
						270.76														
53	AP22	22/0	DC+00	21°18'09"	RT		14655.76	1446.94	99	248	347	76	320	396	541	271		Kulubari	DRY	Co P
						270.24											220 volt Line			
54		22/1	DB+00				14926	270.24	22	49	71	-49	-2	-51	529	265			DRY	Co P
						259											Kancha Road			
55		22/2	DA+00				15185		210	179	389	261	210	470	519	260			DRY	Co P
						260											Foot Track			
56		22/3	DB+00				15445	519.00	81	213	294	50	234	284	620	310			DRY	Co P
						360											Foot Track, Ditch			
57		22/4	DA+03				15805		147	130	277	126	143	269	581	290			DRY	Co P
						220.59											Brick Road, Graveyard			
58	AP23	23/0	DD+00	46°00'52"	LT		16025.59	580.59	90	-39	51	78	-130	-53	430	215		Kulubari	WET	P
						209.41											220 volt Line, Kancha Road			
59		23/1	DB+00				16235	209.41	249	69	318	340	53	393	399	200			DRY	Co P
						190											220 volt Line			
60		23/2	DA+03				16425		121	171	292	137	213	349	403	201			DRY	Co P

AP-22 to AP-24

Proposed 132kV. D/C Transmission Line from ROKHIA to RABINDRANAGAR

Tower Schedule

Tower No.	AP No.	Location No.	Type of Tower	Angle of Deviation		Span in Metre	Cumu. Dist.(M)	Length of Section	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details	Village Name	Type of Foundation
									Left	Right	Total	Left	Right	Total					
						212.74											Ditch, 11 Kv. Line, Pucca Road		
61	AP24	24/0	DD+00	53°11'40"	RT		16637.74	402.74	41	158	200	0	166	166	505	253		Moynama	DRY
						292.26											Ditch		PS
62		24/1	DA+06				16930		134	168	301	126	225	351	447	224			
						155											220 volt Line, Kancha Road		
63		24/2	DB+00				17085	447.26	-13	165	152	-70	132	63	588	294			DRY
						433											220 volt Line-2 times, Ditch-3 times,		
64		24/3	DB+00				17518	433.00	268	76	344	301	48	348	677	339			DRY
						244											220 volt Line, Foot Track		
65		24/4	DA+03				17762		168	212	380	196	233	429	605	303			DRY
						361.02											Foot track-2 times, Kancha Road, Ditch		
66	AP25	25/0	DB+00	13°10'00"	RT		18123.02	605.02	149	201	349	128	250	378	608	304		Apalia	WET
						246.69											Foot Track, Ditch, Pucca Road, 11 Kv. Line		
67	AP26	26/0	DD+06	38°46'32"	RT		18369.71	246.69	46	163	208	-3	237	234	337	169		Apalia	WET
						90.41											66 Kv. S/C HT Line		
68	AP27	27/0	DD+00	56°35'54"	LT		18460.11	90.41	-72	124	52	-146	124	-22	340	170		Apalia	PS
						249.89											Pucca Road, 11KV. Line,Embankment		
69		27/1	DA+00				18710		125	139	264	126	136	262	535	267			PS
						285													
70		27/2	DB+00				18995	534.89	146	46	192	149	10	159	490	245			WE
						205													
71		27/3	DA+06				19200		159	149	308	195	156	350	481	240			P
						275.6											Graveyard, Pucca Road, 11 kv. Line, Pond-2 times		
72	AP28	28/0	DC+03	15°04'02"	LT		19475.6	480.60	127	164	291	120	145	265	665	333		Nabadwip	W

• Tower schedule given by Power grid for 43 km. of Rabindranagar to Belonia T/L

OWNER: T.S.E.C.L
CONSULTANT: PGCIL

DETAIL SURVEY TOWER SCHEDULE

✓ LINK: 132KV S-C (ON D-C TOWERS)
RABINDRANAGAR TO BELONIA TR. LINE

AP-12 to AP-14

SL NO	AP NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	SPAN IN (M)	SEC LENG	CUMLTV LENGTH	R.L	C.P D	LEVEL DIFF	SUM OF ADJ SPAN	WEIGHT SPAN IN (HOT) LEFT	RIGHT	TOTAL	WEIGHT SPAN IN (COLD) LEFT	RIGHT	TOTAL	MAJOR CROSSING DETAIL	REMARKS	GPS CO-ORDINATE WGS-84 EASTING	NORTHING
1	5	5/0	DD+0	15°36'25"LT	203	203	203	80.72	0	0.23	203		99.44	99.445		98.143	98.1432		VILL-Kalapania	91°16'33.2"	23°27'13.5"
2	6	6/0	DC+0	29°39'18"LT	117	117	320	80.95	0	4.17	320	103.56	-6.15	97.402	104.86	[illegible]	57.7617	Vill Road	VILL-Kalapania	91°16'38.3"	23°27'08.8"
3	7	7/0	DD+9	10°23'34"LT	169	169	489	77.12	1	18.33	286	123.15	-112.25	10.903	164.1	-236.8	-72.7483	Vill Road, LT Line	VILL-Kalapania	91°16'42.1"	23°27'07.7"
4	8	8/0	DD+18	30°57'17"RT	143	143	632	88.95	3.5	-2.66	312	281.25	105.24	386.49	405.84	126.61	532.455	132KV D/C M-S T/L	VILL-Kalapania	91°16'48.0"	23°27'07.1"
5	9	9/0	DD+6	31°21'57"RT	339	339	971	97.29	2.5	-20.12	462	37.76	277.16	314.92	16.389	345.34	361.731		VILL-Kalapania	91°16'52.2"	23°27'04.5"
6	10	10/0	DB+6	12°22'51"RT	346	346	1317	74.67	0	5.25	685	61.84	145.48	207.31	-6.342	128.05	121.703	LT Line, 11KV Metal Road	VILL-Kalapania	91°16'56.7"	23°26'54.4"
7	11	11/0	DC+0	21°37'03"LT	130	130	1447	88.92	3	10.21	476	200.52	-77.47	123.05	217.95	-167.7	50.2657	Drain, Vill. Road	VILL-Kalapania	91°16'58.7"	23°26'43.1"
8	12	12/0	DC+0	18°47'41"RT	192			96.13	0	-0.88	322	207.47	104.31	311.78	297.69	109.58	407.268	Vill Road, LT Line	VILL-Kalapania	91°16'58.7"	23°26'43.1"
9		12/1	DB+0		294	486	1933	96.25	1	4.69	486	87.69	118.06	205.75	82.421	99.737	182.158		VILL-Kalapania	91°17'0[illegible]"	23°26'39.6"
10	13	13/0	DD+0	31°49'51"LT	201			99.94	0	1.5	495	175.94	86.06	262	194.26	76.916	271.179	Vill Road, LT Line			
11		13/1	DA+0		250			101.54	0	-2.92	451	114.94	146.26	261.2	124.06	59.72	283.807	Vill Road	VILL-Monarchak	91°17'04.3"	23°26'24.2"
12		13/2	DB+0		271			98.61	0	0.55	521	103.74	131.82	235.56	90.277	129.49	219.764				
13		13/3	DB+0		374			99.15	0	-5.92	545	109.18	276.56	358.75	141.51	241.82	383.332				
14		13/4	DB+0		273			92.24	0	4.13	647	153.44	109.06	262.49	132.16	91.679	223.86				
15		13/5	DA+3		306	1675	3608	93.37	0	-3.48	0	163.94	173.63	337.57	181.32	186.89	368.015	Vill Road			
16	14	14/0	DD+0	53°44'39"LT	297			92.89	0	2.08	603	132.37	132.25	264.62	119.31	121.97	241.271	FP			
17		14/1	DB+0		262			95.55	0	2.94	559	164.7[illegible]	[illegible]	275.39	175.03	97.754	272.789		VILL-Lalchera	91°1[illegible]'46.3"	[illegible]
18		14/2	DA+0		207			98.49	0	-8.55	409	151.36	178.43	329.79	184.25	225.67	390.12				
19		14/3	DB+0		187	953	4561	99.94	0	9.65	394	28.57	-2.05	26.522	-18.87	-62.56	-81.4329				
20	15	15/0	DB+0	08°30'25"RT	159	159	4720	99.79	0	-20.96	346	199.05	318.63	507.66	249.56	470.06	719.619		VILL-Induria	91°18'20.1"	23°25'52.0"
21	16	16/0	DB+0	03°35'57"LT				78.83	0		159	-159.63		-159.6	-311.1		-311.06	Metal Road LT Line	VILL-Induria	91°18'25.7"	23°25'51.2"

SURVEYED/SUBMITTED BY: CHECKED BY: APPROVED BY:

OWNER: T.S.E.C.L
CONSULTANT: PGCIL

DETAIL SURVEY TOWER SCHEDULE

LINK: 132KV S/C (ON D/C TOWERS)
RABINDRANAGAR TO BELONIA TR. LINE

SL NO	AP NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	SPAN IN (M)	SEC. LENG.	CUMLTV. LENGTH	R.L	C.P. D.	LEVEL DIFF	SUM OF ADJ. SPAN	WEIGHT SPAN IN (HOT) LEFT	WEIGHT SPAN IN (HOT) RIGHT	WEIGHT SPAN IN (HOT) TOTAL	WEIGHT SPAN IN (COLD) LEFT	WEIGHT SPAN IN (COLD) RIGHT	WEIGHT SPAN IN (COLD) TOTAL	MAJOR CROSSING DETAIL	REMARKS	GPS CO-ORDINATE WGS-84 EASTING	GPS CO-ORDINATE WGS-84 NORTHING
22	18	18/0	DC+6	18°42'59"RT				78.25	0		310		162.61	162.61		167.42	167.42				
23		18/1	DA+3		310			79.95	0	-1.3	578	147.39	117.15	264.54	142.58	106.47	249.05	2Nos LT Line, Pond	VILL-Induria	91°16'42.7"	23°25'58.3"
24	19	19/0	DC+0	16°8'25"RT	268	578	5298	87.44	2	2.49	565	150.85	71.05	221.91	161.53	22.01	183.54				
25	20	20/0	DB+0	06°26'48"LT	297	297	5595	99.12	1	12.68	521	225.95	88.60	314.54	274.99	73.775	348.77	LT Line	VILL-Induria	91°19'01.5"	23°26'04.3"
26	21	21/0	DC+0	17°29'03"RT	224	224	5819	101.51	0.5	2.89	534	135.40	148.45	283.85	150.82	144.3	294.52	Vill Road	VILL-Induria	91°19'11.8"	23°26'05.1"
27		21/1	DB+3		310			99.13	0	1.12	551	161.55	73.91	235.46	165.7	44.403	210.11		VILL-Induria	91°19'19.5"	23°26'06.3"
28		21/2	DB+0		241			108.32	0	6.19	588	167.09	75.17	242.26	196.6	12.897	209.49				
29		21/3	DB+0		347			127.13	0	18.81	589	271.83	28.05	299.88	334.1	-30.81	303.29				
30		21/4	DB+3		242			136.53	0	12.4	493	213.95	52.22	266.17	272.81	5.81	278.62				
31		21/5	DB+0		251			149.67	0	10.14	484	198.78	96.10	294.89	245.19	83.185	328.38				
32		21/6	DA+0		233			152.29	0	2.62	499	136.90	206.24	343.14	149.81	252.62	402.44				
33		21/7	DB+3		266			138.55	0	-10.74	496	59.76	154.51	214.27	13.377	179.54	192.91	Jalasay, Foot Path			
34		21/8	DB+3		230			133.54	0	-5.01	507	75.49	204.38	279.87	50.464	246.1	296.56	2Nos Foot Path			
35		21/9	DB+0		277			126.48	0	-10.06	499	72.62	73.66	146.28	30.9	50.01	80.91				
36		21/10	DB+0		222			131.05	0	4.57	0	148.34	194.70	343.05	171.59	210.03	382.02	2Nos Nala			
37		21/11	DB+0		341			126.5	0	-4.55	557	146.30	89.61	235.9	130.97	77.961	208.93	Nala			
38		21/12	DA+0		216			128.69	0	2.19	518	126.39	186.98	313.37	138.04	209.78	347.80	LT Line, Metal Road			
39		21/13	DB+0		302			122.7	0	-5.99	699	115.02	224.77	339.79	92.236	241.41	333.65				
40		21/14	DB+0		397			116.95	0	-5.75	818	172.23	336.71	508.93	155.59	416.63	572.21	Metal Road, Nala, 11KV LT			
41	22	22/0	DB+3	07°07'45"LT	421	4296	10115	88.66	4	-29.29	761	84.29	82.19	166.48	4.3748	20.259	24.63	Pond Nala			
42	23	23/0	DB+0	02°29'36"LT	360	360	10475	111.57	4.5	19.41	360	277.81		277.81	339.74		339.74		VILL-Taibandal	91°22'01.1"	23°25'53.1"
																			VILL-Taibandal	91°22'02.9"	23°25'53.6"

AP 21 to AP-23

SURVEYED/SUBMITTED BY:

P.K.DUTTA & CO (M/S)

CHECKED BY:

APPROVED BY:

OWNER: T.S.E.C.L.
CONSULTANT: PGCIL

DETAIL SURVEY TOWER SCHEDULE

LINK: 132KV [illegible] RABINDRANAGAR TO BELONIA [illegible] LINE

BL NO	AP NO	TOWER NO	TYPE OF TOWER	ANGLE OF DEVIATION	SPAN IN (M)	SEC LENG	CUMLTV LENGTH	R.L.	C.P. D	LEVEL DIFF	SUM OF ADJ SPAN	WEIGHT SPAN IN (HOT) LEFT	WEIGHT SPAN IN (HOT) RIGHT	WEIGHT SPAN IN (HOT) TOTAL	WEIGHT SPAN IN (COLD) LEFT	WEIGHT SPAN IN (COLD) RIGHT	WEIGHT SPAN IN (COLD) TOTAL	MAJOR CROSSING DETAIL	REMARKS	GPS CO-ORDINATE WGS-84 EASTING	GPS CO-ORDINATE WGS-84 NORTHING
43	26	26/0	DB+0	07°22'10"LT	321			106.37	0.5	6.34	321		124.67	124.67		101.98	101.98	Jalasay	VILL Taibandal	91°22'44.7"	23°25'54.3"
44		26/1	DB+6		341			106.21	0	4.58	662	196.33	146.14	342.46	219.02	130.71	349.72				
45		26/2	DB+6		326			110.79	0	-4.75	667	194.86	189.43	384.30	210.29	206.17	416.46	Vill Road			
46		26/3	DB+9		353			103.04	0	-7.89	679	136.57	217.05	353.61	119.83	242.72	362.55	Jalasay RF			
47	27	27/0	DC+0	19°27'18"RT	172	1341	11829	105.15	1	-0.34	525	135.95	89.59	225.54	110.28	91.857	202.14	Metal Road,RF	VILL-Badur pathar	91°23'31.9"	23°25'58.7"
48		27/1	DB+6		340			97.81	0	-2.22	512	82.41	181.84	264.26	80.143	189.34	269.49	Vill Road,RF,PRF			
49		27/2	DB+3		242			98.59	0	-0.33	582	158.16	123.47	281.63	150.66	125.04	275.70	PRF,RF			
50		27/3	DA+0		305			101.26	0	-0.67	547	118.53	156.48	275.01	116.96	159.01	275.97	Metal Road, 11KV			
51		27/4	DA+6		256			94.59	0	-2.12	561	148.52	143.02	291.54	145.99	152.54	298.53				
52	28	28/0	DB+0	03°25'12"LT		1315	13144	98.47	0		256	112.98		112.98	103.46		103.46		VILL-Samuk Chara	91°24'16.6"	23°25'48.7"
53	41	41/0	DC+3	19°38'31"LT	268			100	0	16.19	268		24.41	24.41		-44.98	-44.98	Metal Road, Pond,RF	VILL-Tulamura	91°26'43.8"	23°25'37.4"
54	42	42/0	DB+3	07°51'58"LT	299	268	13412	116.69	0.5	0.24	567	243.59	148.04	391.63	312.98	147.12	460.10	Foot Path, Vill Road,RF	VILL-Tulamura	91°26'52.9"	23°25'38.0"
55		42/1	DA+6		316			113.43	0	-4.12	0	150.96	181.65	332.61	151.88	195.63	348.51	RF			
56		42/2	DA+3		229			112.31	0	-1.65	545	134.35	[illegible]	[illegible]	119.37	135.85	[illegible]	Vill Road, 11KV,RF			
57		42/3	DB+3		263			110.66	0	3.49	492	101.43	107.43	208.86	93.153	92.185	185.34	RF			
58		42/4	DA+0		281			117.15	0	-2.24	544	155.57	154.96	310.53	170.82	164.12	334.93	Vill Road, PRF			
59		42/5	DA+3					111.91	0		281	126.04	169.79	295.83	116.88	186.44	303.33				

SURVEYED/SUBMITTED BY: **CHECKED BY:** **APPROVED BY:**

CONSULTANT: PGCIL
OWNER: T.S.E.C.L

DETAILED SURVEY TOWER SCHEDULE

LINK: 132KV S-C (ON D/C TOWERS)
RABINDRANAGAR TO BELONIA TR. LINE

BL NO	AP NO	TOWER NO	TYPE OF TOWER	EXTENTION	ANGLE OF DEVIATION	SPAN IN (M)	SEC. LENG.	CUML TV. LENGTH	R.L	C.P. D.	LEVEL DIFF.	SUM OF ADJ. SPAN	WEIGHT SPAN IN (HOT) LEFT	RIGHT	TOTAL	WEIGHT SPAN IN (COLD) LEFT	RIGHT	TOTAL	MAJOR CROSSING DETAIL	REMARKS	GPS CO-ORDINATE WGS-84 EASTING	NORTHING
7		42/5	DA+3	3					111.91	0		287	126.04	169.79	295.83	116.88	186.44	303.33				
						287					-4.16											
8		42/6	DB+0	0					110.75	0		514	117.21	81.06	198.262	100.56	60.51	161.0657	Vil Road			
						227					4.06											
9		42/7	DA+6	6					108.81	0		490	145.94	152.33	298.275	166.49	165.52	332.0108				
						263					-3.02											
10	43	43/0	DB+0	0	4°34'47"LT		2165	15577	112.79	1		555	110.67	175.88	286.551	97.479	194.8	292.2832	Jalasay, Vill Road			
						292					-4.81											
11		43/1	DB+6	6					100.98	0		584	116.12	128.29	244.413	97.196	117.08	214.2788	Metal Road, 2Nos Nala	VILL-Kalaban	91°28'06.5"	23°25'57.3"
						292					2.85											
12	44	44/0	DD+0	0	53°17'31"RT		584	16161	111.33	1.5		536	163.71	99.55	263.253	174.92	85.33	260.2472				
						244					3.02											
13		44/1	DB+6	6					106.85	0		577	144.45	204.80	349.248	158.67	229.05	387.7168	Metal Road	VILL-Kalaban	91°28'25.6"	23°26'04.5"
						333					-7.03											
14	45	45/0	DC+3	3	25°12'43"LT		577	16738	102.82	0		333	128.20		128.204	103.95		103.9532	2 Nos 11KV, Nala, LT Line, Metal Road	VILL-Kalaban	91°28'43.0"	23°25'54.9"
1	46	46/0	DD+6	6	03°09'14"RT				100.01	0		200		96.73	96.7348		94.667	94.66707				
						200					0.36								U/C Rail Line(Agartala to Sabrum)	VILL-Garjee	91°29'47.7"	23°25'53.3"
2		46/1	DD+6	6					100.37	0		434	103.27	113.59	216.854	105.33	111.43	216.762				
						234					0.44											
3		46/2	DB+6	6					100.81	0		376	120.41	70.87	191.283	122.57	70.791	193.3623	66KV			
						142					0.01											
4	47	47/0	DB+6	6	11°58'5"LT		576	17314	100.82	0		352	71.13	103.96	175.091	71.209	103.31	174.5156	11KV, NH-44			
						210					0.12									VILL-Garjee	91°30'08.1"	23°25'52.1"
5	48	48/0	DB+0	0	9°43'26"LT		210	17524	107.94	1		349	106.04	63.76	169.794	106.69	60.122	166.8145		VILL-Garjee	91°30'15.3"	23°25'51.7"
						139					0.44											
6	49	49/0	DD+3	3	30°25'36"RT		139	17663	107.88	3.5		0	75.24	75.60	150.841	78.876	25.635	104.5136	LT Line	VILL-Garjee	91°30'19.9"	23°25'54.7"
						309					13.44											
7	50	50/0	DE+3	3	26°44'47"LT		309	17972	119.32	1.5		309	233.40	138.17	371.572	283.36	150.63	433.9925	LT Line, Vill Road	VILL-Garjee	91°30'30.8"	23°25'52.8"

SURVEYED/SUBMITTED BY:

CHECKED BY:

APPROVED BY:

AP-28 to AP-31

(PGCIL ROUTE)							SURVEY DONE BY M/S EMC LTD								REMARKS / REASON FOR CHANGE (IF ANY)
SL. NO.	TOWER NO.	SECTION LENGTH (M)	ANGLE OF DEVIATION	GPS CO-ORDINATE EASTING	GPS CO-ORDINATE NORTHING	REMARKS	SL. NO.	TOWER NO.	SECTION LENGTH (M)	ANGLE OF DEVIATION	GPS CO-ORDINATE EASTING	GPS CO-ORDINATE NORTHING	Major Crossing	VILLAGES	
28	AP-27		17°56'9" RT	23°25'58.7"	91°23'31.9"		28	AP-27		17°56'9" RT	23°25'58.7"	91°23'31.9"		BADURPATHAR	
		1315							1315				Mettal Road		SAME ROUTE
29	AP-28		4°14'14" LT	23°25'48.7"	91°24'16.6"		29	AP-28		4°14'14" LT	23°25'48.7"	91°24'16.6"		SAMUKCHARA	
		668							668						SAME ROUTE
30	AP-29		10°23'8" RT	23°25'45.3"	91°24'39.7"		30	AP-29		10°23'8" RT	23°25'45.3"	91°24'39.7"		JITENDRANAGAR	
		800							800				Mettal Road		SAME ROUTE
31	AP-30		25°44'23" LT	23°25'36.3"	91°25'6.2"		31	AP-30		25°44'23" LT	23°25'36.3"	91°25'6.2"		JITENDRANAGAR	
		565							565						SAME ROUTE
32	AP-31		29°41'2" RT	23°25'38.7"	91°25'25.8"		32	AP-31		29°41'2" RT	23°25'38.7"	91°25'25.8"		JITENDRANAGAR	
		310							310						SAME ROUTE
33	AP-32		9°22'42" LT	23°25'34.6"	91°25'35.6"		33	AP-32		9°22'42" LT	23°25'34.6"	91°25'35.6"		JITENDRANAGAR	
		225							225						SAME ROUTE
34	AP-33		39°41'36" LT	23°25'32.8"	91°25'43.2"		34	AP-33		39°41'36" LT	23°25'32.8"	91°25'43.2"		JITENDRANAGAR	
		425							425						SAME ROUTE
35	AP-34		29°2'39" RT	23°25'38.6"	91°25'54.9"		35	AP-34		29°2'39" RT	23°25'38.6"	91°25'54.9"		JITENDRANAGAR	
		280							280						SAME ROUTE
36	AP-35		20°54'42" RT	23°25'38.1"	91°26'05.6"		36	AP-35		20°54'42" RT	23°25'38.1"	91°26'05.6"		TULAMURA	
		220							220				Mettal Road		SAME ROUTE
37	AP-36		21°49'29" LT	23°25'35"	91°26'12.7"		37	AP-36		21°49'29" LT	23°25'35"	91°26'12.7"		TULAMURA	
		190							190						SAME ROUTE
38	AP-37		44°57'13" LT	23°25'34.8"	91°26'19.2"		38	AP-37		44°57'13" LT	23°25'34.8"	91°26'19.2"		TULAMURA	
		200							200				Mettal Road		SAME ROUTE
39	AP-38		37°1'16" RT	23°25'39.4"	91°26'24.1"		39	AP-38		37°1'16" RT	23°25'39.4"	91°26'24.1"		TULAMURA	
		210							210						SAME ROUTE
40	AP-39		22°52'10" RT	23°25'40.2"	91°26'31.5"		40	AP-39		22°52'10" RT	23°25'40.2"	91°26'31.5"		TULAMURA	
		155							155				River		SAME ROUTE
41	AP-40		6°36'6" LT	23°25'38.7"	91°26'36.5"		41	AP-40		6°36'6" LT	23°25'38.7"	91°26'36.5"		TULAMURA	
		225							225						SAME ROUTE
42	AP-41		13°52'11" LT	23°25'37.4"	91°26'43.8"		42	AP-41		13°52'11" LT	23°25'37.4"	91°26'43.8"		TULAMURA	
		268							268				Mettal Road		SAME ROUTE
43	AP-42		10°55'17" LT	23°25'38"	91°26'52.9"		43	AP-42		10°55'17" LT	23°25'38"	91°26'52.9"		TULAMURA	
		2165							2165						SAME ROUTE
44	AP-43		5°57'39" LT	23°25'57.3"	91°28'6.5"		44	AP-43		5°57'39" LT	23°25'57.3"	91°28'6.5"		KOLABAN	
		584							584				Mettal Road		SAME ROUTE
45	AP-44		49°32'28" RT	23°26'4.5"	91°28'25.6"		45	AP-44		49°32'28" RT	23°26'4.5"	91°28'25.6"		KOLABAN	
		577							577						SAME ROUTE
46	AP-45		27°22'53" LT	23°25'54.9"	91°28'43.0"		46	AP-45		27°22'53" LT	23°25'55.40"N	91°28'43.10"E		KOLABAN	RE ALIGNMENT DONE FROM AP NO 45 TO AP NO 47 (15 nos. NEW ANGLE POINT) SINCE THE EARLIER AP WAS SPOTTED ON "GARZI" RAILWAY STATION HENCE WE HAVE TO DIVERT THE NEW ALIGNMENT.
									1400						
							47	AP 45A		44°18'26" LT	23°25'53.56"N	91°29'32.28"E		KOLABAN	
									248						
							48	AP 45B		30°42'39" LT	23°25'59.02"N	91°29'38.70"E		KOLABAN	
									226				Mettal Road		
							49	AP 45C		33°22'39" LT	23°26'6.07"N	91°29'40.98"E		KOLABAN	
									198						
							50	AP 45D		38°30'04" RT	23°26'12.22"N	91°29'38.98"E		GARJI	
									134						
							51	AP 45E		06°08'59" RT	23°26'16.27"N	91°29'40.73"E		GARJI	
									132						
							52	AP 45F		50°02'22" RT	23°26'20.06"N	91°29'42.91"E		GARJI	
									156				RAILWAY CROSSING		
							53	AP 45G		15°09'22" RT	23°26'21.12"N	91°29'48.28"E		GARJI	
									170				NH 44 X-ING		
							54	AP 45H		50°01'03" RT	23°26'20.82"N	91°29'54.26"		GARJI	

Comparative Statement

(PGCIL ROUTE)							SURVEY DONE BY M/S EMC LTD								
SL. NO.	TOWER NO.	SECTION LENGTH (M)	ANGLE OF DEVIATION	GPS CO-ORDINATE EASTING	GPS CO-ORDINATE NORTHING	REMARKS	SL. NO.	TOWER NO.	SECTION LENGTH (M)	ANGLE OF DEVIATION	GPS CO-ORDINATE EASTING	GPS CO-ORDINATE NORTHING	Major Crossing	VILLAGES	REMARKS / REASON FOR CHANGE (IF ANY)
1	RABINDARANAGAR			23°27'28.60"	91°16'19.50"		1	RABINDARANAGAR			23°27'28.60"	91°16'19.50"			
		39							39						
2	Ap 1		26°18'1" RT	23°27'27.70"	91°16'20.80"		2	Ap 1		26°18'1" RT	23°27'27.70"	91°16'20.80"	66 Kv X-ING		SAME ROUTE (Tower Extension more than +9M is required)
		128							128					SOVAPUR	
3	AP 2		25°17'24" LT	23°27'24.10"	91°16'22.80"		3	AP 2		25°17'24" LT	23°27'24.10"	91°16'22.80"	33 KV & 11 kV		
		165							165					SOVAPUR	
4	Ap 3		8°6'9" LT	23°27'20.80"	91°16'27.40"		4	Ap 3		8°6'9" LT	23°27'20.80"	91°16'27.40"	132 kV		
		75							75					SOVAPUR	
5	AP-4		32°18'21" RT	23°27'19.6"	91°16'29.7"		5	AP-4		32°18'21" RT	23°27'19.6"	91°16'29.7"		SOVAPUR	SAME ROUTE
		216							216						
6	AP-5		18°17'32" LT	23°27'13.4"	91°16'33.3"		6	AP-5		18°17'32" LT	23°27'13.4"	91°16'33.3"		KALAPANIA	SAME ROUTE
		203							203						
7	AP-6		29°21'57" LT	23°27'8.7"	91°16'38.6"		7	AP-6		29°21'57" LT	23°27'8.7"	91°16'38.6"		KALAPANIA	SAME ROUTE
		117							117						
8	AP-7		6°34'58" LT	23°27'7.9"	91°16'42.3"		8	AP-7		6°34'58" LT	23°27'7.9"	91°16'42.3"		KALAPANIA	SAME ROUTE
		169							169						
9	AP-8		28°4'21" RT	23°27'7.3"	91°16'48.4"		9	AP-8		28°4'21" RT	23°27'7.3"	91°16'48.4"		KALAPANIA	SAME ROUTE
		143							143						
10	AP-9		33°27'4" RT	23°27'4.5"	91°16'52.6"		10	AP-9		33°27'4" RT	23°27'4.5"	91°16'52.6"		KALAPANIA	SAME ROUTE
		339							339						
11	AP-10		11°44'45" RT	23°26'54.3"	91°16'56.9"		11	AP-10		11°44'45" RT	23°26'54.3"	91°16'56.9"		KALAPANIA	SAME ROUTE
		346							346						
12	AP-11		17°1'43" LT	23°26'43.1"	91°16'59.1"		12	AP-11		17°1'43" LT	23°26'43.1"	91°16'59.1"		KALAPANIA	SAME ROUTE
		130							130						
13	AP-12		15°1'57" RT	23°26'38.8"	91°17'1.4"		13	AP-12		15°1'57" RT	23°26'38.8"	91°17'1.4"		KALAPANIA	SAME ROUTE
		499							499						
14	AP-13		34°40'17" LT	23°26'24.2"	91°17'04.8"		14	AP-13		34°40'17" LT	23°26'24.2"	91°17'04.8"		MONARCHAWK	SAME ROUTE
		1675							1675						
15	AP-14		52°27'49" LT	23°25'46"	91°17'46.9"		15	AP-14		52°27'49" LT	23°25'46"	91°17'46.9"		ALCHARA	SAME ROUTE
		952							952						
16	AP-15		13°15'25" RT	23°25'52"	91°16'20.1"		16	AP-15		13°15'25" RT	23°25'52"	91°16'20.1"		INDURIA	SAME ROUTE
		159							159						
17	AP-16		10°3'3" LT	23°25'51.7"	91°18'25.8"		17	AP-16		10°3'3" LT	23°25'51.7"	91°18'25.8"		INDURIA	SAME ROUTE
		231							231						
18	AP-17		25°23'23" LT	23°25'52.7"	91°18'33.9"		18	AP-17		25°23'23" LT	23°25'52.7"	91°18'33.9"		INDURIA	SAME ROUTE
		292							292						
19	AP-18		14°10'22" RT	23°25'58.1"	91°18'42.4"		19	AP-18		14°10'22" RT	23°25'58.1"	91°18'42.4"		INDURIA	SAME ROUTE
		578							578						
20	AP-19		14°22'1" LT	23°26'1.4"	91°19'1.5"		20	AP-19		14°22'1" LT	23°26'1.4"	91°19'1.5"		INDURIA	SAME ROUTE
		297							297						
21	AP-20		4°58'12" LT	23°26'05.1"	91°19'11.8"		21	AP-20		4°58'12" LT	23°26'05.1"	91°19'11.8"		INDURIA	SAME ROUTE
		224							224						
22	AP-21		13°51'38" RT	23°26'6.3"	91°19'19.5"		22	AP-21		13°51'38" RT	23°26'6.3"	91°19'19.5"		INDURIA	SAME ROUTE
		4295							4295				Mettal Road village road		
23	AP-22		7°16'30" LT	23°25'53.1"	91°21'50.3"		23	AP-22		7°16'30" LT	23°25'53.1"	91°21'50.3"		TAIBANDAL	SAME ROUTE
		360							360						
24	AP-23		1°46'8" LT	23°25'53.6"	91°22'02.9"		24	AP-23		1°46'8" LT	23°25'53.6"	91°22'02.9"		TAIBANDAL	SAME ROUTE
		525							525						
25	AP-24		10°59'40" RT	23°25'54.9"	91°22'21.3"		25	AP-24		10°59'40" RT	23°25'54.9"	91°22'21.3"		TAIBANDAL	SAME ROUTE
		236							236						
26	AP-25		8°27'37" LT	23°25'53.9"	91°22'29.5"		26	AP-25		8°27'37" LT	23°25'53.9"	91°22'29.5"	Mettal Road	TAIBANDAL	SAME ROUTE
		432							432						
27	AP-26		3°49'6" LT	23°25'54.3"	91°22'44.7"		27	AP-26		3°49'6" LT	23°25'54.3"	91°22'44.7"		TAIBANDAL	SAME ROUTE
		1341							1341						

LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	CO-ORDINATE		Villa
									Left	Right	Total	Left	Right	Total				NORTHING	EASTING	
1		EXISTING TOWER NO 52	DA+06					27.81		174.3	174.3		191.9	191.9				23°57'44.60"	91°22'44.59"	
					300												LT Line,11KV Line,Metal Road			
2		EXISTING TOWER NO 51	DB+03	15°34'53"			300	26.162	125.7	122.8	248.4	108.1	193.4	301.5	350.0	175.0		23°57'35.10"	91°22'42.90"	
					50															
3	AP 1A	AP-1A/0	DDE+00	90°00'00"		350	350	26.05	-72.8	5.3	-67.5	-143.4	1.9	-141.6	70.0	35.0		23°57'37.70"	91°22'42.09"	
					20															
4	AP 1	AP-1/0	DD+00	21°57'27" L		20	370	26.11	14.7		14.7	18.1		18.1				23°57'33.97"	91°22'41.45"	

FOR EMC LIMITED

FOR PGCIL

Tanmoy

JAYDIP NATH
PROJECT MANAGER
EMC LIMITED

PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H) Left	Weight Span(H) Right	Weight Span(H) Total	Weight Span(C) Left	Weight Span(C) Right	Weight Span(C) Total	Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	NORTHING	EASTING	Village
1	EXISTING TOWER NO 49	EXISTING TOWER NO 49	DC+06					36.084		209.1	209.1		234.1	234.1				23°57'16.08"	91°22'32.21"	
					349												11KV Line,Metal Road			
2		EXISTING TOWER NO 50	DA+03	00°41'00"			349	31.402	139.9	178.1	318.0	114.9	215.7	330.6	601.0	300.5		23°57'26.40"	91°22'37.90"	
					252												Mud Road			
3	AP 1A	AP-1A/0	DDE+00	90°00'00"		601	601	26.05	73.9	5.3	79.2	36.3	1.9	38.2	272.0	136.0		23°57'37.70"	91°22'42.09"	
					20															
4	AP 1	AP-1/0	DD+00	21°57'27" L		20	621	26.11	14.7		14.7	18.1		18.1				23°57'33.97"	91°22'41.45"	

FOR EMC LIMITED		FOR PGCIL		
Tanmoy	JAYDIP NATH PROJECT MANAGER EMC LIMITED			
PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation		Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	CO-ORDINATE		Village Name
										Left	Right	Total	Left	Right	Total				NORTHING	EASTING	
1	1A	1A/0	DD+00	90°00'00"					26.05		5.3	5.3		1.9	1.9				23°57'37.70"	91°22'42.09"	
						20															
2	1	1/0	DD+00	21°57'27"	L		20	20	26.11	14.7	146.5	161.2	18.1	116.8	134.9	395.0	197.5		23°57'33.97"	91°22'41.45"	
						375												Mud Road			
3	2	2/0	DC+09	17°53'14"	L		375	395	26.91	228.5	194.8	423.4	258.2	205.6	463.8	735.0	367.5		23°57'33.90"	91°22'28.00"	
						360												LT Line,11KV Line,Metal Road			
4	3	3/0	DD+06	56°3'42"	R		360	755	26.51	165.2	151.8	316.9	154.4	170.4	324.9	612.0	306.0		23°57'32.27"	91°22'15.75"	
						252												11KV Line			
5	4	4/0	DD+00	59°8'54"	R		252	1007	28.374	100.2	39.7	139.9	81.6	12.4	93.9	407.0	203.5		23°57'37.70"	91°22'09.26"	
						155															
6	5	5/0	DDE+00	14°17'18"	R		155	1162	32.105	115.3	72.9	188.2	142.6	103.1	245.7	217.0	108.5		23°57'42.76"	91°22'10.53"	
						62												Rubber Plantation			
7	GAN	GANT	DD+00	07°23'51"	R		62	1224	30.453										23°57'44.51"	91°22'41.45"	

FOR EMC LIMITED		FOR PGCIL		
Tanmay	JAYDIP NATH PROJECT MANAGER EMC LIMITED			
PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

POLE SUMMARY

POLE SUMMARY DETAILS							
TRIPURA STATE ASSOCIATED WITH NER POWER SYSTEM IMPROVEMENT PROJECT (DMS PACKAGE-03)							
TRI-DMS-03 (3604) CC-CS/86-NER/REW-2986/1/G2/NOA-I/7168 & 7169 Date: 22.02.2017							
LINE LINK: EXISTING 132/33 kV GOKULNAGAR S/S TO PROPOSED 33/11 kV DURGANAGAR S/S							
TOTAL LINE LENGTH: 7.023 km							
S.No.	Type of Pole	Extension	Pole Qty	12 m Pole	14 m Pole	16 m Pole	Remarks
1	SP (GA-01)	0 m	37	37			
2		2 m	1		1		
3		4 m	1			1	
4	SP (GA-02)	0 m	32	32			
5		2 m	5		5		
6		4 m	8			8	
7	DP (GA-03)	0 m	58	116			
8		2 m	7		14		
9		4 m	16			32	
10	FP (GA-04)	0 m	6	24			
11		2 m	1		4		
12		4 m	4			16	
	TOTAL			211	24	57	= 290 Nos.

TECHNOFAB ENGINEERING LIMITED TRIPURA

SUBMITTED BY:
TechnoFab Engineering Ltd.

Akhil Chakma
DET, Udaipur
CHECKED BY:
PGCIL

एम.के.नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे.,उदयपुर / NER, UDAIPUR
APPROVED BY:
PGCIL

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-PROPOSED GOKULNAGAR 132/33 KV S/S TO DURGANAGAR

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. of mtr.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
1	AP-1	1	FP+4		00°00'00"					GOKULNAGAR S/S	23°42'32.49"	91°15'49.00"	
						43	43		NH-44 11 KV LINE (2 NOS)				Hold
2	AP-2	2	FP+4		74°57'48"LT			43	LT Line	GOKULNAGAR	23°42'32.74"	91°15'47.52"	
						34	34						
3	AP-3	3	GP+0		06°02'42"RT			77	33 KV LINE	GOKULNAGAR	23°42'31.72"	91°15'47.00"	
						44	44						
4	AP-4	4	SP+4		09°37'01"LT			121		GOKULNAGAR	23°42'30.51"	91°15'46.21"	
						45	45						
5	AP-5	5	DP+0		33°29'47"LT			166		GOKULNAGAR	23°42'29.07"	91°15'45.59"	
						45							
6		LOC-5/1	GP+0							GOKULNAGAR			
						45							
7		LOC-5/2	SP+0				179			GOKULNAGAR			
						45							
8		LOC-5/3	SP+0							GOKULNAGAR			
						44							
9	AP-6	6	DP+0		12°27'19"LT			345		GOKULNAGAR	23°42'23.37"	91°15'46.90"	
						45	45						
10	AP-7	7	SP+4		05°15'54"LT			390	MRD, 11 KV LINE	GOKULNAGAR	23°42'22.04"	91°15'47.55"	Hold
						42							
11		LOC-7/1	SP+4				126			GOKULNAGAR			
						42							
12		LOC-7/2	SP+0							GOKULNAGAR			
						44							
13	AP-8	8	DP+0		09°34'25"LT			518	400 KV T/L	GOKULNAGAR	23°42'18.43"	91°15'49.79"	Hold
						38	76						
14		LOC-8/1	SP+0							GOKULNAGAR			
						38							
15	AP-9	9	SP+0		02°47'14"RT			594		GOKULNAGAR	23°42'16.53"	91°15'51.47"	
						45	90						
16		LOC-9/1	SP+0							GOKULNAGAR			
						45							
17	AP-10	10	FP+4		68°39'33"RT			684		GOKULNAGAR	23°42'14.11"	91°15'53.41"	
						35							
18		LOC-10/1	SP+0						VRD	GOKULNAGAR			Hold
						45							
19		LOC-10/2	SP+0							GOKULNAGAR			
						42							
20		LOC-10/3	DP+0				245			GOKULNAGAR			
						42							
21		LOC-10/4	SP+0							GOKULNAGAR			
						41							
22		LOC-10/5	SP+0							GOKULNAGAR			
						40							
23	AP-11	11	DP+0		15°16'59"LT			929		GOKULNAGAR	23°42'7.43"	91°15'48.84"	
						45							
24		LOC-11/1	SP+0				90			GOKULNAGAR			
						45							
25	AP-12	12	FP+0		76°40'01"RT			1019		GOKULNAGAR	23°42'4.66"	91°15'47.92"	
						40	40						
26	AP-13	13	FP+0		77°42'07"LT			1059		GOKULNAGAR	23°42'4.74"	91°15'46.51"	
						49	49						Hold
27	AP-14	14	DP+0		19°31'55"RT			1108	POND	GOKULNAGAR	23°42'3.20"	91°15'46.04"	
						46	46						
28	AP-15	15	DP+0		50°09'20"LT			1154	POND	GOKULNAGAR	23°42'1.99"	91°15'45.1"	
						37	37						
29	AP-16	16	DP+0		14°02'10"RT			1191	ROAD, LT LINE	GOKULNAGAR	23°42'0.828"	91°15'45.43"	
						40	40						
30	AP-17	17	DP+2		25°01'01"RT			1231	NALA	GOKULNAGAR	23°41'59.52"	91°15'45.45"	
						45	45						
31	AP-18	18	DP+0		23°38'12"LT			1276		GOKULNAGAR	23°41'58.05"	91°15'44.73"	
						42	84						
32		LOC-18/1	SP+0							GOKULNAGAR			
						42							
33	AP-19	19	SP+0		03°01'01"LT			1360		GOKULNAGAR	23°41'55.35"	91°15'44.59"	
						35	35						
34	AP-20	20	SP+0		00°20'05"RT			1395		GOKULNAGAR	23°41'54.22"	91°15'44.74"	
						44	44						
35	AP-21	21	DP+0		11°04'44"LT			1439		GOKULNAGAR	23°41'52.79"	91°15'44.8"	
						42	42						
36	AP-22	22	DP+0		26°51'04"RT			1481		GOKULNAGAR	23°41'51.46"	91°15'45.13"	
						32	32						
37	AP-23	23	DP+0		23°18'44"LT			1513		GOKULNAGAR	23°41'50.45"	91°15'44.87"	
						45	45						
38	AP-24	24	DP+0		13°16'03"LT			1558		GOKULNAGAR	23°41'48.99"	91°15'45.13"	
						35	35						
39	AP-25	25	DP+0		11°59'05"RT			1593		GOKULNAGAR	23°41'47.95"	91°15'45.6"	
						45	45						
40	AP-26	26	SP+0		11°59'05"LT			1638		GOKULNAGAR	23°41'46.14"	91°15'45.98"	
						41	41						
41	AP-27	27	DP+0		01°19'56"LT			1679		GOKULNAGAR	23°41'44.87"	91°15'46.42"	
						47	47						Hold
42	AP-28	28	SP+0		00°25'51"RT			1726		GOKULNAGAR	23°41'43.42"	91°15'46.97"	
						42	42						
43	AP-29	29	SP+0		06°56'23"LT			1768		GOKULNAGAR	23°41'42.12"	91°15'47.45"	
						47	47						Hold
44	AP-30	30	DP+0		02°12'21"LT			1815		GOKULNAGAR	23°41'40.73"	91°15'48.17"	
						44	44						
45	AP-31	31	SP+0		01°44'31"RT			1859		GOKULNAGAR	23°41'39.47"	91°15'48.89"	
						44	44						
46	AP-32	32	SP+0		04°39'39"LT			1903		GOKULNAGAR	23°41'38.18"	91°15'49.58"	
						44	44						
47	AP-33	33	DP+4		41°04'20"RT			1947		GOKULNAGAR	23°41'36.95"	91°15'50.37"	
						37	37		MRD, 11 KV, LT LINE				Hold
48	AP-34	34	FP+0		06°54'06"RT			1984		GOKULNAGAR	23°41'35.78"	91°15'50.14"	
						29	29						
49	AP-35	35	DP+0		26°53'46"LT			2013		GOKULNAGAR	23°41'35.58"	91°15'49.16"	Hold
						27	27		LT LINE				

TECHNOFAB ENGINEERING LIMITED
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उ.पू.क्षे..उदयपुर / NER, UDAIPUR
APPROVED BY

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-PROPOSED GOKULNAGAR 132/33 KV S/S TO DURGANAGAR

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. of mtr.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
50	AP-36	36	SP+2		03°04'53"RT			2040		GOKULNAGAR	23°41'35.01"	91°15'48.42"	
						36	36		MRD, 11 KV LINE				Hold
51	AP-37	37	SP+4		04°40'21"LT	45	45	2076		GOKULNAGAR	23°41'34.32"	91°15'47.41"	
52	AP-38	38	DP+0		21°04'42"RT			2124			23°41'33.3"	91°15'46.15"	
						30	30						
53	AP-39	39	DP+0		18°13'18"RT			2154			23°41'32.96"	91°15'45.17"	
						40	40						
54	AP-40	40	SP+0		06°51'54"LT			2194			23°41'32.91"	91°15'43.76"	
						45	45						
55	AP-41	41	DP+0		16°32'17"LT			2239			23°41'32.67"	91°15'42.06"	
						45							
56		LOC-41/1	SP+0										
						44	133						
57		LOC-41/2	SP+0										
						44							
58	AP-42	42	SP+0		04°44'24"RT			2372			23°41'30.8"	91°15'37.82"	
						44	44						
59	AP-43	43	DP+0		17°18'09"RT			2416			23°41'30.3"	91°15'36.38"	
						41	41		MRD				Hold
60	AP-44	44	DP+0		11°40'39"LT			2457			23°41'30.21"	91°15'34.93"	
						32	32						
61	AP-45	45	DP+0		24°11'22"LT			2489			23°41'29.94"	91°15'33.84"	
						45	45						
62	AP-46	46	SP+0		04°30'00"RT			2534			23°41'29.02"	91°15'32.62"	
						34	34						
63	AP-47	47	DP+0		20°25'24"RT			2568	MRD	CENTRAL JAIL	23°41'28.39"	91°15'31.64"	Hold
						45	45						
64	AP-48	48	DP+0		22°01'03"LT			2613		CENTRAL JAIL	23°41'28.01"	91°15'30.05"	
						31	31						
65	AP-49	49	DP+0		24°26'38"RT			2644		CENTRAL JAIL	23°41'27.42"	91°15'29.18"	
						31	31						
66	AP-50	50	SP+0		01°00'18"RT			2675		CENTRAL JAIL	23°41'27.21"	91°15'28.12"	
						45	45						
67	AP-51	51	SP+0		04°51'52"RT			2720		CENTRAL JAIL	23°41'26.93"	91°15'26.57"	
						42	42		MRD				Hold
68	AP-52	52	DP+0		17°23'36"LT			2762		CENTRAL JAIL	23°41'26.79"	91°15'25.09"	
						41	41						
69	AP-53	53	SP+0		05°18'29"RT			2803		CENTRAL JAIL	23°41'26.25"	91°15'23.76"	
						40	40						
70	AP-54	54	DP+0		30°17'24"LT			2843		CENTRAL JAIL	23°41'25.85"	91°15'22.42"	
						43	43		MRD				Hold
71	AP-55	55	DP+0		41°23'19"LT			2886		CENTRAL JAIL	23°41'24.8"	91°15'21.41"	
						36							
72		LOC-55/1	SP+0				72						
						36							
73	AP-56	56	FP+0		72°25'18"RT			2958			23°41'22.45"	91°15'21.41"	
						44			MRD				Hold
74		LOC-56/1	SP+0										
						44							
75		LOC-56/2	SP+0										
						44							
76		LOC-56/3	DP+0				263						
						44							
77		LOC-56/4	SP+0										
						44							
78		LOC-56/5	SP+0										
						43							
79	AP-57	57	SP+0		07°47'04"LT			3221			23°41'19.88"	91°15'12.55"	
						38	38						
80	AP-58	58	DP+0		24°35'12"LT			3259			23°41'19.35"	91°15'11.32"	
						42							
81		LOC-58/1	SP+0				127						
						42							
82		LOC-58/2	SP+0										
						43							
83	AP-59	59	DP+0		35°37'05"LT			3386	ROAD		23°41'16.2"	91°15'8.436"	Hold
						40							
84		LOC-59/1	SP+0										
						38							
85		LOC-59/2	SP+0				159						
						43							
86		LOC-59/3	SP+0										
						38							
87	AP-60	60	FP+0		72°38'06"RT			3545			23°41'11.22"	91°15'8.008"	
						48			ROAD				Hold
88		LOC-60/1	SP+0				96						
						48							
89	AP-61	61	DP+0		34°18'55"LT			3641			23°41'10.53"	91°15'4.735"	
						28	28		ROAD, 11 KV, LT LINE				
90	AP-62	62	FP+4		85°42'56"LT			3669			23°41'9.878"	91°15'4.073"	
						43							
91		LOC-62/1	SP+0				86						
						43							
92	AP-63	63	SP+0		01°02'04"LT			3755			23°41'7.821"	91°15'6.147"	
						43	43						
93	AP-64	64	SP+0		02°05'01"RT			3798			23°41'6.793"	91°15'7.185"	
						50	50						
94	AP-65	65	DP+0		06°24'39"RT			3848	ROAD, LT LINE		23°41'5.57"	91°15'8.33"	
						36	36						
95	AP-66	66	DP+2		28°07'04"RT			3884	ROAD		23°41'4.603"	91°15'9.049"	
						41	41						
96	AP-67	67	SP+0		07°37'44"LT			3925	LT LINE		23°41'3.272"	91°15'9.208"	Hold
						42							
97		LOC-67/1	SP+2				83		LT LINE				
						41							
98	AP-68	68	SP+2		09°30'35"RT			4008	MRD, 11 KV, LT LINE		23°41'0.647"	91°15'9.914"	
						31	31						

TECHNOFAB ENGINEERING LIMITED
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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. of mtr.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
99	AP-69	69	DP+2		22°32'40"RT			4039			23°40'59.64"	91°15'9.998"	
100	AP-70	70	DP+0		21°30'58"LT	42	42	4081	MRD, 11 KV, LT LINE LT LINE		23°40'58.3"	91°15'9.521"	
101	AP-71	71	SP+2		02°31'53"LT	43	43	4124			23°40'56.9"	91°15'9.611"	
102	AP-72	72	SP+0		05°14'35"LT	33	33	4157			23°40'55.83"	91°15'9.731"	
103	AP-73	73	DP+4		40°00'10"LT	39	39	4196	MRD, 11 KV LINE MRD, CABLE		23°40'54.6"	91°15'9.994"	PROBHAVPUR
104	AP-74	74	DP+0		11°46'50"RT	30	30	4226			23°40'53.99"	91°15'10.81"	PROBHAVPUR
105	AP-75	75	DP+4		14°30'51"RT	45	45	4271			23°40'52.86"	91°15'11.81"	PROBHAVPUR
106	AP-76	76	DP+0		34°13'07"LT	32	32	4303	ROAD, 11 KV, LT LINE		23°40'51.92"	91°15'12.28"	PROBHAVPUR
107	AP-77	77	SP+0		07°51'54"LT	34	34	4337			23°40'51.35"	91°15'13.32"	PROBHAVPUR
108	AP-78	78	DP+4		30°57'50"RT	30	30	4367	ROAD, 11 KV, LT LINE ROAD		23°40'50.97"	91°15'14.27"	PROBHAVPUR
109	AP-79	79	DP+0		13°52'17"LT	42	42	4409			23°40'49.46"	91°15'15.46"	PROBHAVPUR
110	AP-80	80	DP+0		13°33'01"RT	41	41	4450			23°40'48.59"	91°15'16.56"	PROBHAVPUR
111	AP-81	81	SP+4		00°24'10"RT	45	45	4495			23°40'47.37"	91°15'17.53"	PROBHAVPUR
112	AP-82	82	DP+0		11°09'13"LT	37	37	4532	11 KV LINE ROAD		23°40'46.4"	91°15'18.29"	PROBHAVPUR
113		LOC-82/1	SP+0			35	70						PROBHAVPUR
114	AP-83	83	DP+0		09°16'33"RT	35		4602			23°40'44.83"	91°15'20.11"	PROBHAVPUR
115	AP-84	84	SP+4		06°24'16"RT	30	30	4632			23°40'44.06"	91°15'20.75"	PROBHAVPUR
116		LOC-84/1	SP+0			39	78		11 KV LINE				PROBHAVPUR
117	AP-85	85	SP+2		02°04'21"RT	39		4710			23°40'41.86"	91°15'22.2"	PROBHAVPUR
118	AP-86	86	DP+2		14°33'42"LT	42	42	4752	11 KV LINE		23°40'40.67"	91°15'22.92"	PROBHAVPUR
119	AP-87	87	SP+0		05°48'28"RT	40	40	4792			23°40'39.74"	91°15'23.88"	PROBHAVPUR
120	AP-88	88	DP+0		13°02'52"LT	41	41	4833			23°40'38.67"	91°15'24.78"	PROBHAVPUR
121	AP-89	89	DP+2		40°16'05"RT	39	39	4872			23°40'37.87"	91°15'25.85"	PROBHAVPUR
122	AP-90	90	SP+4		05°40'00"LT	41	41	4913	ROAD, LT LINE 11 KV LINE		23°40'36.58"	91°15'26.11"	PROBHAVPUR
123	AP-91	91	SP+0		99°05'03"LT	45	45	4958	ROAD, 11 KV LINE		23°40'35.18"	91°15'26.55"	PROBHAVPUR
124	AP-92	92	DP+4		20°59'08"RT	41	41	4999			23°40'33.99"	91°15'27.17"	PROBHAVPUR
125	AP-93	93	SP+0		02°03'17"RT	31	31	5030			23°40'32.98"	91°15'27.25"	PROBHAVPUR
126	AP-94	94	DP+4		16°11'06"LT	35	35	5065			23°40'31.84"	91°15'27.3"	PROBHAVPUR
127	AP-95	95	DP+0		11°00'44"LT	44	44	5109	ROAD, 11 KV LINE LT LINE		23°40'30.45"	91°15'27.64"	PROBHAVPUR
128	AP-96	96	DP+0		46°50'36"LT	41	41	5150			23°40'29.22"	91°15'28.22"	PROBHAVPUR
129	AP-97	97	DP+0		14°09'11"LT	29	29	5179			23°40'28.91"	91°15'29.18"	PROBHAVPUR
130	AP-98	98	FP+2		75°41'59"RT	37	37	5216	MRD, 11 KV LINE MRD, 11 KV LINE		23°40'28.79"	91°15'30.49"	PROBHAVPUR
131	AP-99	99	SP+0		05°32'28"LT	28	28	5244			23°40'27.88"	91°15'30.64"	PROBHAVPUR
132	AP-100	100	DP+0		19°50'29"RT	38	38	5282			23°40'26.68"	91°15'30.97"	PROBHAVPUR
133	AP-101	101	DP+0		37°21'40"RT	37	37	5319			23°40'25.48"	91°15'30.85"	AKHAY CHOWMANI
134	AP-102	102	DP+4		42°22'58"RT	28	28	5347	MRD 11 KV, LT LINE		23°40'24.82"	91°15'30.19"	AKHAY CHOWMANI
135	AP-103	103	SP+2		04°34'01"LT	28	28	5375	MRD, 11 KV, LT LINE LT LINE		23°40'24.74"	91°15'29.2"	AKHAY CHOWMANI
136	AP-104	104	DP+0		20°53'10"LT	45	45	5420			23°40'24.5"	91°15'27.58"	AKHAY CHOWMANI
137	AP-105	105	SP+4		02°19'38"LT	34	34	5454	11 KV LINE		23°40'23.93"	91°15'26.53"	AKHAY CHOWMANI
138	AP-106	106	DP+0		13°36'56"LT	44	44	5498	11KV LINE		23°40'23.17"	91°15'25.23"	AKHAY CHOWMANI
139		LOC-106/1	SP+0			42	84						AKHAY CHOWMANI
140	AP-107	107	DP+4		17°57'13"LT	42		5582	MRD, 11 KV LINE		23°40'21.2"	91°15'23.18"	AKHAY CHOWMANI
141	AP-108	108	DP+4		30°02'00"LT	38	38	5620		RATANGARH	23°40'20.09"	91°15'22.59"	AKHAY CHOWMANI
142	AP-109	109	SP+0		08°47'48"LT	33	33	5653	MRD, 11 KV LINE		23°40'19.01"	91°15'22.67"	AKHAY CHOWMANI
143	AP-110	110	DP+0		12°15'53"RT	45	45	5698			23°40'17.52"	91°15'23.05"	AKHAY CHOWMANI
144	AP-111	111	SP+4		05°02'33"RT	29	29	5727	ROAD, 11 KV LINE		23°40'16.58"	91°15'23.06"	AKHAY CHOWMANI
145	AP-112	112	SP+0		02°15'48"RT	34	34	5761			23°40'15.47"	91°15'22.97"	AKHAY CHOWMANI
146	AP-113	113	DP+2		28°24'03"RT	39	39	5800	LT LINE		23°40'14.21"	91°15'22.81"	AKHAY CHOWMANI
147	AP-114	114	SP+0		05°28'45"RT	39	39	5839			23°40'13.16"	91°15'22.01"	AKHAY CHOWMANI
						32	32						

TECHNOFAB ENGINEERING LIMITED
TRIPURA
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प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे., उदयपुर / NER, UP

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. of mtr.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS	
											NORTHING	EASTING		
148	AP-115	115	DP+0		14°55'38"LT	42	84	5871			23°40'12.37"	91°15'21.28"	AKHAY CHOWMANI	
149		LOC-115/1	SP+0			42							AKHAY CHOWMANI	
150	AP-116	116	DP+2		14°26'38"RT	41	123	5955	LT LINE		23°40'9.92"	91°15'20.01"	AKHAY CHOWMANI	Hold.
151		LOC-116/1	SP+0			41							AKHAY CHOWMANI	
152		LOC-116/2	SP+0			41							AKHAY CHOWMANI	
153	AP-117	117	SP+0		07°00'45"LT	32	32	6078	MRD, 11 KV LINE		23°40'6.865'	91°15'17.22"	AKHAY CHOWMANI	Hold
154	AP-118	118	DP+4		18°26'06"RT	34	68	6110			23°40'5.98"	91°15'16.6"	AKHAY CHOWMANI	
155		LOC-118/1	SP+0			34							AKHAY CHOWMANI	
156	AP-119	119	DP+4		10°06'59"RT	43	43	6178	MRD , 11 KV LINE		23°40'4.594"	91°15'14.71"	AKHAY CHOWMANI	
157	AP-120	120	DP+4		57°57'08"LT	40	40	6221	MRD, 11 KV LINE		23°40'3.929"	91°15'13.38"	AKHAY CHOWMANI	
158	AP-121	121	DP+0		19°56'19"RT	44	44	6261	MRD, 11 KV LINE		23°40'2.627"	91°15'13.29"	AKHAY CHOWMANI	
159	AP-122	122	DP+4		17°54'35"RT	28	28	6305	MRD , 11 KV LINE		23°40'1.32"	91°15'12.67"	AKHAY CHOWMANI	Hold
160	AP-123	123	SP+0		07°32'54"RT	43	43	6333	ROAD		23°40'0.63"	91°15'12.01"	AKHAY CHOWMANI	
161	AP-124	124	DP+0		24°47'24"RT	19	19	6376	ROAD		23°39'59.7"	91°15'10.86"	AKHAY CHOWMANI	
162	AP-125	125	DP+0		34°27'47"RT	45	212	6395		BISHALGARH BARI	23°39'59.53"	91°15'10.23"	AKHAY CHOWMANI	
163		LOC-125/1	DP+4			42			DMRD ,LT				PROBHAVPUR	Hold
164		LOC-125/2	SP+0			42							PRCBHAVPUR	
165		LOC-125/3	SP+0			42							PROBHAVPUR	
166		LOC-125/4	SP+0			41							PROBHAVPUR	
167	AP-126	126	DP+0		02°04'50"LT	34	34	6607	DMRD, 11 KV, LT LINE		23°40'1.731"	91°15'3.003"	PROBHAVPUR	Hold
168	AP-127	127	DP+4		38°23'58"LT	41	41	6641			23°40'2.043"	91°15'1.835"	PROBHAVPUR	
169	AP-128	128	DP+0		15°34'33"LT	45	45	6682			23°40'1.54"	91°15'0.5"	PROBHAVPUR	
170	AP-129	129	DP+0		12°43'38"LT	42	42	6727			23°40'0.615"	91°14'59.2"	PROBHAVPUR	
171	AP-130	130	DP+0		40°22'54"RT	43	43	6769			23°39'59.56"	91°14'58.26"	PROBHAVPUR	
172	AP-131	131	SP+0		09°27'44"RT	43	86	6812			23°39'59.32"	91°14'56.78"	PROBHAVPUR	
173		LOC-131/1	SP+0			43							PROBHAVPUR	
174	AP-132	132	DP+4		19°58'59"LT	35	35	6898	DMRD, 11 KV, LT LINE	DURGANAGAR	23°39'59.28"	91°14'53.75"	PROBHAVPUR	Hold
175	AP-133	133	SP+0		07°53'18"RT	43	43	6933			23°39'58.88"	91°14'52.59"	PROBHAVPUR	
176	AP-134	134	FP+0		00°00'00"			6976		DURGANAGAR S/S	23°39'58.57"	91°14'51.11"		

Pole Schedule with normal height (+0m) which are within the permissible span and which are within the permissible angles of deviation are approved. All crossing pose with exterior, Pole where individual span has crossed the max. limit are put on hold. Details profile to be to be submitted for the above crossing & violations. M/s Technofab may be intimated accordingly.

(S.I. [illegible])

TECHNOFAB ENGINEERING LIMITED TRIPURA
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DET, Udaipur

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APPROVED BY

POLE SUMMARY

POLE SUMMARY DETAILS							
TRIPURA STATE ASSOCIATED WITH NER POWER SYSTEM IMPROVEMENT PROJECT (DMS PACKAGE-03)							
TRI-DMS-03 (3604) CC-CS/86-NER/REW-2986/1/G2/NOA-I/7168 & 7169 Date: 22.02.2017							
LINE LINK: EXISTING 33/11 kV KATHALIA S/S TO PROPOSED 33/11 kV NIDAYA S/S							
TOTAL LINE LENGTH: 9.488 km							
S.No.	**Type of Pole**	**Extension**	**Pole Qty**	**12 m Pole**	**14 m Pole**	**16 m Pole**	**Remarks**
1	**SP (GA-01)**	0 m	66	66			
2		2 m	1		1		
3		4 m	8			8	
4	**SP (GA-02)**	0 m	41	41			
5		2 m	2		2		
6		4 m	9			9	
7	**DP (GA-03)**	0 m	77	154			
8		2 m	6		12		
9		4 m	33			66	
10	**FP (GA-04)**	0 m	6	24			
11		2 m	0		0		
12		4 m	3			12	
	TOTAL			**285**	**15**	**95**	

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TechnoFab Engineering Ltd.

Akhil Chakma
DET, Udaipur
CHECKED BY:
PGCIL

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उ.पू.क्षे., उदयपुर / NER, UDAIPUR
APPROVED BY:
PGCIL

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAL SURVEY POLE SECDULE

LINK NAME:-KHATALIA EXISTING 33/11 KV S/S TO NIDAYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (mtr.)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	EASTING	REMARKS
1	AP-1	1	FP+0		00°00'00"	10	10			KATHALIA S/S	23°22'15.74"	91°19'10.23"	
2	AP-2	2	FP+0		89°34'09"RT	21	21	10		KATHALIA	23°22'15.64"	91°19'9.87"	Hold
3	AP-3	3	SP+0		00°54'34"LT	45	45	31	11 KV. BRICK ROAD	KATHALIA	23°22'16.32"	91°19'9.76"	
4	AP 4	4	DP+4	4	43°32'53"RT	39	39	76		KATHALIA	23°22'17.75"	91°19'9.50"	
5	AP-5	5	SP+0		09°44'00"LT	29	29	115		KATHALIA	23°22'18.8"	91°19'10.26"	
6	AP-6	6	DP+4	4	13°49'16"LT	32	32	144	11 KV	KATHALIA	23°22'19.65"	91°19'10.67"	
7	AP-7	7	FP+4	4	56°31'02"RT	28	28	176	11 KV, BRICK ROAD, DMRD	KATHALIA	23°22'20.66"	91°15'10.87"	Hold
8	AP-8	8	FP+0		84°33'35"RT	39	39	204		KATHALIA	23°22'20.87"	91°19'11.82"	
9	AP-9	9	SP+0		07°02'52"LT	33	33	243	11 KV	KATHALIA	23°22'19.67"	91°19'12.25"	
10	AP-10	10	DP+4	4	25°01'01"RT	20	20	276	2nos11 KV,DMRD	KATHALIA	23°22'18.7"	91°19'12.76"	Hold
11	AP-11	11	DP+4	4	36°24'15"LT	41		296		KATHALIA	23°22'18.05"	91°19'12.77"	
12		LOC-11/1	SP+0			41	123		LT LINE	KATHALIA			Hold
13		LOC-11/2	SP+2			41				KATHALIA			
14	AP-12	12	SP+0		08°19'54"RT	34	34	419	11 KV	KATHALIA	23°22'14.86"	91°19'15.38"	Hold
15	AP-13	13	DP+4	4	40°24'42"RT	33	33	453	11 KV	KATHALIA	23°22'13.89"	91°19'15.95"	
16	AP-14	14	SP+0		05°18'40"RT	46	46	486		KATHALIA	23°22'12.85"	91°19'15.72"	Hold
17	AP-15	15	DP+0		21°38'28"LT	43	43	532		KATHALIA	23°22'11.41"	91°19'15.25"	
18	AP-16	16	SP+0		07°59'07"LT	33		575		KATHALIA	23°22'10.01"	91°19'15.37"	
19		LOC-16/1	SP+0			34	67			KATHALIA			
20	AP-17	17	DP+0		08°09'43"RT	45	45	642	11 KV	KATHALIA	23°22'7.87"	91°19'15.89"	Hold
21	AP-18	18	SP+4	4	04°43'00"LT	40	40	687	11 KV	KATHALIA	23°22'6.41"	91°19'16.01"	
22	AP-19	19	SP+0		08°01'35"LT	39	39	727		KATHALIA	23°22'5.18"	91°19'16.24"	
23	AP-20	20	DP+0		10°00'29"LT	49	49	766		KATHALIA	23°22'3.92"	91°19'16.64"	Hold
24	AP-21	21	DP+2	2	04°00'51"LT	26	26	815	LT LINE	KATHALIA	23°22'2.48"	91°19'17.44"	
25	AP-22	22	SP+0		07°22'50"RT	23	23	841		KATHALIA	23°22'1.78"	91°19'17.9"	
26	AP-23	23	DP+0		16°17'15"RT	33	33	864		KATHALIA	23°22'1.10"	91°19'18.23"	
27	AP-24	24	DP+4	4	25°26'10"LT	36	36	897	11 KV, LT LINE, ROAD	KATHALIA	23°22'0.037"	91°19'18.38"	Hold
28	AP-25	25	SP+0		03°26'18"RT	38		933		KATHALIA	23°21'59.06"	91°19'19.06"	
29		LOC-25/1	SP+0			38	76			KATHALIA			
30	AP-26	26	DP+4	4	20°59'24"LT	25	25	1009	11 KV, ROAD	KATHALIA	23°21'56.9"	91°19'20.39"	Hold
31	AP-27	27	FP+0		74°34'33"RT	41	41	1034		KATHALIA	23°21'56.39"	91°19'21.07"	
32	AP-28	28	SP+0		05°42'23"LT	34	34	1075	11KV , ROAD	KATHALIA	23°21'55.18"	91°19'20.49"	Hold
33	AP-29	20	DP+4	4	20°49'05"LT	31	31	1109	2NO11KV ,LT LINE	KATHALIA	23°21'54.13"	91°19'20.11"	
34	AP-30	30	DP+4	4	19°57'14"LT	72	22	1140	LT, 11 KV. ROAD	KATHALIA	23°21'53.13"	91°19'20.16"	
35	AP-31	31	DP+4	4	59°06'30"LT	41		1162	11 KV	KATHALIA	23°21'52.48"	91°19'20.45"	
36		LOC-31/1	SP+0			41	127			KATHALIA			
37		LOC-31/2	SP+4	4		45			LT LINE	KATHALIA			Hold
38	AP-32	32	DP+0		03°00'16"RT	36		1289		KATHALIA	23°21'51.88"	91°19'24.86"	
39		LOC-32/1	SP+0			36	72			KATHALIA			
40	AP-33	33	DP+0		11°36'28"RT	45	45	1361		KATHALIA	23°21'51.42"	91°19'27.33"	
41	AP-34	34	DP+0		18°45'50"RT	40		1406		KATHALIA	23°21'50.85"	91°19'28.78"	
42		LOC-34/1	SP+0			40	80		ROAD	KATHALIA			Hold
43	AP-35	35	DP+4	4	14°17'16"LT	32	32	1486	LT, 11 KV, DMRD	KATHALIA	23°21'49.11"	91°19'33.88"	
44	AP-36	36	DP+2	2	11°35'51"RT	41		1518	LT LINE,ROAD	KATHALIA	23°21'48.64"	91°19'31.87"	
45		LOC-36/1	SP+0			42				SINDIKAT BAZER			
46		LOC-36/2	SP+0			42				SINDIKAT BAZER			
47		LOC-36/3	DP+0			42	249			SINDIKAT BAZER			
48		LOC-36/4	SP+0			42				SINDIKAT BAZER			
49		LOC-36/5	SP+0			40			ROAD	SINDIKAT BAZER			
50	AP-37	37	DP+2	2	17°12'00"RT	24	24	1767	DMRD	SINDIKAT BAZER	23°21'43.54"	91°19'38.66"	Hold
51	AP-38	38	SP+4	4	02°03'36"RT	41	41	1791	11 KV	SINDIKAT BAZER	23°21'42.9"	91°19'39.13"	
52	AP-39	39	SP+0		01°23'09"RT	43	43	1832		KATHALIA BAZER	23°21'41.77"	91°19'39.88"	
53	AP-40	40	DP+4	4	36°27'35"LT	30	30	1875	11 KV, DMRD	KATHALIA BAZER	23°21'40.57"	91°19'40.63"	
54	AP-41	41	DP+0		40°45'35"RT	40	4[illegible]	1905		KATHALIA BAZER	23°21'40.19"	91°19'41.59"	

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OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAL SURVEY POLE SECDULE

LINK NAME:-KHATALIA EXISTING 33/11 KV S/S TO NIDAYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (intr.)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	GPS CO-ORDINATE(WGS-84) EASTING	REMARKS
55	AP-42	42	DP+0		28°08'24"RT			1945	11 KV, DMRD	KATHALIA BAZER	23°21'39.03"	91°19'42.2"	Hold
56	AP-43	43	DP+4	4	41°57'23"LT	20	20	1965		KATHALIA BAZER	23°21'38.38"	91°19'42.18"	
57		LOC-43/1	SP+0			31	62			KATHALIA BAZER			
58	AP-44	44	DP+0		40°36'05"LT	31		2027		KATHALIA BAZER	23°21'36.8"	91°19'43.57"	
59	AP-45	45	FP+4	4	64°53'22"RT	22	22	2049	11 KV, DMRD	KATHALIA BAZER	23°21'36.71"	91°19'44.35"	Hold
60	AP-46	46	DP+0		30°39'28"LT	22	22	2071	11KV, DMRD	KATHALIA BAZER	23°21'35.99"	91°19'44.28"	
61	AP-47	47	DP+4	4	12°24'42"LT	47	47	2118	11 KV	KATHALIA BAZER	23°21'34.64"	91°19'45"	
62	AP-48	48	DP+4	4	32°33'38"RT	23	23	2141	11KV, LT, DMRD	KATHALIA BAZER	23°21'34.06"	91°19'45.51"	
63	AP-49	49	SP+0		05°18'52"RT	43	43	2184		KATHALIA BAZER	23°21'32.66"	91°19'45.66"	
64	AP-50	50	SP+0		08°19'32"RT	43	43	2227		KATHALIA BAZER	23°21'31.26"	91°19'45.68"	
65	AP-51	51	DP+0		11°25'16"RT	41	41	2268		SOUTH MOHASHPUR	23°21'29.93"	91°19'45.49"	
66	AP-52	52	SP+2	2	03°38'18"RT	41	41	2309		SOUTH MOHASHPUR	23°21'28.65"	91°19'45.01"	
67	AP-53	53	SP+0		02°04'02"LT	40	40	2349	ROAD, LT, CABLE	SOUTH MOHASHPUR	23°21'27.45"	91°19'44.46"	Hold
68	AP-54	54	SP+4	4	07°44'12"RT	44	44	2393	11 KV	SOUTH MOHASHPUR	23°21'26.11"	91°19'43.91"	
69	AP-55	55	DP+2	2	12°44'27"LT	31	31	2424	DMRD	SOUTH MOHASHPUR	23°21'25.22"	91°19'43.4"	
70		LOC-55/1	SP+0			43	86		LT LINE	SOUTH MOHASHPUR			
71	AP-56	56	DP+0		22°20'45"RT	43		2510	LT LINE	SOUTH MOHASHPUR	23°21'22.55"	91°19'42.59"	
72	AP-57	57	DP+0		14°22'49"LT	26	26	2536	LT LINE, ROAD	SOUTH MOHASHPUR	23°21'21.89"	91°19'42.03"	
73		LOC-57/1	SP+0			38	202			SOUTH MOHASHPUR			
74		LOC-57/2	SP+0			42				SOUTH MOHASHPUR			
75		LOC-57/3	SP+0			42				SOUTH MOHASHPUR			
76		LOC-57/4	DP+0			42				SOUTH MOHASHPUR			Hold
77	AP-58	58	SP+0		02°36'33"LT	38		2738	LT LINE	SOUTH MOHASHPUR	23°21'15.88"	91°19'39.18"	
78		LOC-58/1	SP+0			42			ROAD	SOUTH MOHASHPUR			
79		LOC-58/2	SP+0			42	162			SOUTH MOHASHPUR			
80		LOC-58/3	SP+0			42				SOUTH MOHASHPUR			
81	AP-59	59	DP+4	4	40°45'50"LT	36		2900	11 KV	SOUTH MOHASHPUR			
82	AP-60	60	DP+4	4	15°01'16"LT	28	28	2928	LT, ROAD	SOUTH MOHASHPUR	23°21'10.95"	91°19'37.13"	Hold
83	AP-61	61	DP+0		19°00'56"LT	37	37	2965		SOUTH MOHASHPUR	23°21'10.11"	91°19'37.46"	
84	AP-62	62	DP+4	4	12°11'33"LT	45	45	3010		SOUTH MOHASHPUR	23°21'9.11"	91°19'38.71"	
85	AP-63	63	DP+0		11°52'58"RT	41	41	3051	11 KV, DMRD	SOUTH MOHASHPUR	23°21'8.24"	91°19'39.49"	Hold
86		LOC-63/1	SP+4	4		37	111			SOUTH MOHASHPUR	23°21'7.71"	91°19'40.8"	
87		LOC-63/2	SP+4	4		37			RIVER	SOUTH MOHASHPUR			
88	AP-64	64	SP+0		04°24'00"LT	37		3152		SOUTH MOHASHPUR			Hold
89	AP-65	65	DP+0		49°30'00"RT	34	34	3196		SOUTH MOHASHPUR	23°21'5.59"	91°19'43.96"	
90	AP-66	66	DP+4	4	21°02'15"RT	27	27	3223		SOUTH MOHASHPUR	23°21'4.99"	91°19'44.05"	
91		LOC-66/1	SP+4	4		39	127		11 KV, DMRD	SOUTH MOHASHPUR	23°21'4.11"	91°19'45.07"	Hold
92		LOC-66/2	SP+0			44			11 KV	SOUTH MOHASHPUR			
93	AP-67	67	DP+4	4	29°37'43"LT	44		3350	LT LINE	SOUTH MOHASHPUR			
94	AP-68	68	SP+0		02°36'24"RT	31	31	3381	ROAD	SOUTH MOHASHPUR	23°21'0.13"	91°19'43.99"	
95		LOC-68/1	SP+0			41			LT LINE	SOUTH MOHASHPUR	23°20'59.16"	91°19'44.29"	
96		LOC-68/2	SP+0			40	122			SOUTH MOHASHPUR			
97	AP-69	69	DP+0		12°10'29"RT	41		3503		SOUTH MOHASHPUR			
98	AP-70	70	DP+0		10°42'47"RT	41	41	3544	11 KV	SOUTH MOHASHPUR	23°20'55.3"	91°19'45.25"	Hold
99	AP-71	71	DP+0		22°01'23"LT	38	38	3582		SOUTH MOHASHPUR	23°20'53.97"	91°19'45.27"	
100	AP-72	72	SP+0		00°43'21"RT	25	25	3607	DMRD, 11 KV	SOUTH MOHASHPUR	23°20'52.76"	91°19'45.04"	Hold
101		LOC-72/1	SP+0			36	109			SOUTH MOHASHPUR	23°20'51.95"	91°19'45.22"	
102		LOC-72/2	SP+0			36				SOUTH MOHASHPUR			
103	AP-73	73	SP+0		00°43'21"LT	37		3716	11 KV	SOUTH MOHASHPUR			
104	AP-74	74	DP+0		07°07'30"LT	25	25	3741		SOUTH MOHASHPUR	23°20'48.48"	91°19'45.97"	Hold
105	AP-75	75	SP+0		02°29'22"RT	38	38	3779	66 KV LINE	SOUTH MOHASHPUR	23°20'47.67"	91°19'46.16"	
106	AP-76	76	DP+0		10°42'58"LT	44	44	3823		SOUTH MOHASHPUR	23°20'46.51"	91°19'46.59"	
107		LOC-76/1	SP+0			43				SOUTH MOHASHPUR	23°20'45.15"	91°19'47.03"	
108		LOC-76/2	SP+0			45				SOUTH MOHASHPUR			
109		LOC-76/3	DP+0			45	266			SOUTH MOHASHPUR			

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OWNER:-T.S.E.C.L
CLIENT:- PGCIL

DETAL SURVEY POLE SECDULL

LINK NAME:-KHATALIA EXISTING 33/11 KV S/S TO NIDAYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (mtr.)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
110		LOC-76/4	SP+0			45				SOUTH MOHASHPUR			
111		LOC-76/5	SP+4	4		45			11 KV	SOUTH MOHASHPUR			Hold
112	AP-77	77	DP+0		18°53'02"LT	42		4088		SOUTH MOHASHPUR	23°20'37.49"	91°19'51.32"	
113		LOC-77/1	SP+0			37	74			SOUTH MOHASHPUR			
114	AP-78	78	DP+0		34°45'41"RT	37		4162		SOUTH MOHASHPUR	23°20'35.82"	91°19'53.21"	
115		LOC-78/1	SP+0			43	86			SOUTH MOHASHPUR			
116	AP-79	79	DP+0		28°49'56"RT	43		4248		SOUTH MOHASHPUR			
117		LOC-79/1	SP+0			45	94		DMRD	SOUTH MOHASHPUR			Hold
118	AP-80	80	DP+0		39°32'57"LT	49		4342		SOUTH MOHASHPUR	23°20'33.09"	91°19'53.8"	
119		LOC-80/1	SP+0			44				SOUTH MOHASHPUR			
120		LOC-80/2	SP+0			44	177			SOUTH MOHASHPUR			
121		LOC-80/3	SP+0			44				SOUTH MOHASHPUR			
122	AP-81	81	DP+0		23°29'55"LT	45		4519		SOUTH MOHASHPUR	23°20'30.19"	91°19'52.82"	Hold
123	AP-82	82	DP+0		13°17'55"RT	33	33	4552	DMRD	SOUTH MOHASHPUR	23°20'24.85"	91°19'55.17"	
124	AP-83	83	DP+0		18°22'37"RT	40	40	4592		SOUTH MOHASHPUR	23°20'24.11"	91°19'55.99"	
125	AP-84	84	SP+0		06°29'02"LT	39	39	4631		SOUTH MOHASHPUR	23°20'23.01"	91°19'56.75"	
126		LOC-84/1	SP+0			45				SOUTH MOHASHPUR			
127		LOC-84/2	SP+0			45				SOUTH MOHASHPUR			
128		LOC-84/3	SP+0			45	224			SOUTH MOHASHPUR			
129		LOC-84/4	SP+0			45				SOUTH MOHASHPUR			
130	AP-85	85	SP+0		06°14'17"RT	44		4855		GHARAM GUHA	23°20'21.78"	91°19'57.08"	
131	AP-86	86	DP+0		38°20'44"RT	30	30	4885		GHARAM GUHA	23°20'14.95"	91°19'59.84"	
132	AP-87	87	DP+0		38°20'44"LT	43	43	4928		GHARAM GUHA	23°20'14.01"	91°20'0.101"	
133		LOC-87/1	SP+0			41	82			GHARAM GUHA			
134	AP-88	88	SP+0		03°49'39"RT	41		5010		GHARAM GUHA	23°20'12.74"	91°19'59.48"	
135		LOC-88/1	SP+0			45	90			GHARAM GUHA			
136	AP-89	89	DP+0		05°09'51"RT	45		5100		GHARAM GUHA	23°20'10.16"	91°19'58.81"	Hold
137	AP-90	90	DP+0		40°23'50"LT	30	30	5130	DMRD 11 KV, ROAD	GHARAM GUHA	23°20'7.36"	91°19'57.86"	
138		LOC-90/1	SP+4	4		44	88			GHARAM GUHA			
139	AP-91	91	SP+0		02°05'29"LT	44		5216		GHARAM GUHA	23°20'6.44"	91°19'57.45"	
140	AP-92	92	DP+0		38°44'46"LT	42	42	5260		GHARAM GUHA	23°20'3.72"	91°19'58.39"	Hold
141	AP-93	93	SP+4	4	00°33'54"LT	41	41	5301	11 KV	GHARAM GUHA	23°20'2.42"	91°19'58.9"	
142		LOC-93/1	SP+0			43	86			GHARAM GUHA			
143	AP-94	94	SP+0		04°27'23"LT	43		5387		GHARAM GUHA	23°20'1.76"	91°20'0.14"	Hold
144	AP-95	95	DP+4	4	29°16'48"RT	41	41	5428	DMRD 11 KV, BRICK RD	GHARAM GUHA	23°20'0.358"	91°20'2.80"	
145	AP-96	96	DP+0		17°37'31"RT	44	44	5472		GHARAM GUHA	23°19'59.78"	91°20'4.11"	
146		LOC-96/1	SP+0			42	84			GHARAM GUHA			
147	AP-97	97	SP+0		04°01'44"LT	42		5556		GHARAM GUHA	23°19'58.62"	91°20'5.011"	
148		LOC-97/1	SP+0			43	86			GHARAM GUHA			
149	AP-98	98	DP+0		15°15'26"LT	43		5642		GHARAM GUHA	23°19'56"	91°20'5.92"	
150		LOC-98/1	SP+0			40	80			GHARAM GUHA			
151	AP-99	99	DP+0		31°14'06"RT	40		5722		GHARAM GUHA	23°19'53.41"	91°20'7.04"	Hold
152	AP-100	100	SP+0		09°48'22"RT	46	46	5768		GHARAM GUHA	23°19'51.35"	91°20'8.79"	
153	AP-101	101	DP+0		30°01'00"RT	44	44	5812		GHARAM GUHA	23°19'49.65"	91°20'8.99"	Hold
154	AP-102	102	SP+4	4	00°49'14"RT	30	30	5842	11 KV	GHARAM GUHA	23°19'48.42"	91°20'8.94"	
155		LOC-102/1	SP+0			42	127			GHARAM GUHA			
156		LOC-102/2	SP+0			42				GHARAM GUHA			Hold
157	AP-103	103	DP+0		39°17'45"LT	43		5969	DMRD	GHARAM GUHA	23°19'47.6"	91°20'8.38"	
158	AP-104	104	DP+4	4	13°47'52"LT	39	39	6008		GHARAM GUHA	23°19'44.13"	91°20'5.96"	Hold
159		LOC-104/1	SP+0			37	74		11 KV	GHARAM GUHA			
160	AP-105	105	SP+4	4	00°41'00"RT	37		6082		GHARAM GUHA	23°19'42.87"	91°20'6.12"	Hold
161	AP-106	106	SP+0		09°02'39"RT	34	34	6116	11 KV	GHARAM GUHA	23°19'40.6"	91°20'7.03"	
162	AP-107	107	DP+0		08°06'49"RT	41	41	6157		GHARAM GUHA	23°19'39.56"	91°20'7.43"	
163		LOC-107/1	SP+0			40				NIDAYA			
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											NORTHING	EASTING	
164		LOC-107/2	SP+0			39	159			NIDAYA			
165		LOC-107/3	SP+4	4		40				NIDAYA			Hold
166	AP-108	108	DP+0		31°33'27"RT	40		6315	11 KV, DMRD	NIDAYA	23°19'38.27"	91°20'7.69"	
167		LOC-108/1	SP+0			44	88			NIDAYA			
168	AP-109	109	SP+0		01°26'39"LT	44		6403		NIDAYA	23°19'33.13"	91°20'7.93"	
169	AP-110	110	SP+4	4	06°08'18"RT	44	44	6447		NIDAYA	23°19'30.61"	91°20'6.43"	Hold
170	AP-111	111	DP+0		21°02'47"LT	42	42	6489	11 KV, DMRD	NIDAYA	23°19'29.34"	91°20'5.69"	
171	AP-112	112	DP+0		22°27'50"LT	43	43	6532		NIDAYA	23°19'28.19"	91°20'4.86"	
172		LOC-112/1	SP+0			40	121			NIDAYA			
173		LOC-112/2	SP+0			40				NIDAYA			
174	AP-113	113	DP+4	4	47°26'20"RT	41		6653	11 KV, DMRD	NIDAYA	23°19'26.82"	91°20'4.52"	Hold
175	AP-114	114	DP+0		31°18'34"RT	31	31	6684	11 KV	NIDAYA	23°19'22.96"	91°20'5.24"	
176	AP-115	115	DP+4	4	41°29'54"LT	29	29	6713	LT. ROAD	NIDAYA	23°19'22.17"	91°20'4.58"	
177	AP-116	116	DP+0		19°51'11"LT	32	32	6745	11 KV	NIDAYA	23°19'21.84"	91°20'3.64"	
178		LOC-116/1	SP+0			41	82			NIDAYA			
179	AP-117	117	DP+4	4	47°59'03"RT	41		6827	11 KV, DMRD	NIDAYA			Hold
180		LOC-117/1	SP+0			43	86		LT LINE	NIDAYA	23°19'20.92"	91°20'3.122"	
181	AP-118	118	SP+0		00°28'11"LT	43		6913		NIDAYA			
182	AP-119	119	DP+4	4	49°03'05"LT	34	34	6947	11 KV, DMRD	NIDAYA	23°19'18.25"	91°20'2.73"	Hold
183	AP-120	120	SP+0		01°49'36"RT	42	42	6989	11 KV	NIDAYA	23°19'16.67"	91°20'0.22"	
184	AP-121	121	SP+0		04°16'37"RT	33	33	7022		NIDAYA	23°19'15.04"	91°19'59.24"	
185		LOC-121/1	SP+0			31	62			NIDAYA	23°19'14.67"	91°19'59.08"	
186	AP-122	122	FP+4	4	65°28'55"RT	31		7084	LT,DMRD	NIDAYA			Hold
187	AP-123	123	SP+0		01°06'03"RT	40	40	7124	LT, 11 KV, DMRD	NIDAYA	23°19'13.6"	91°19'58.91"	
188		LOC-123/1	SP+0			41	82		CABLE	NIDAYA	23°19'11.61"	91°19'58.45"	
189	AP-124	124	DP+0		18°26'08"LT	41		7206		NIDAYA			
190	AP-125	125	DP+0		17°17'33"LT	43	43	7249	LT LINE	NIDAYA	23°19'11.33"	91°19'57.08"	Hold
191	AP-126	126	DP+4	4	51°43'29"LT	33	33	7282	LT LINE	NIDAYA	23°19'10.82"	91°19'54.23"	
192	AP-127	127	DP+0		51°43'29"RT	43	43	7325	LT, DMRD	NIDAYA	23°19'10.12"	91°19'52.9"	
193	AP-128	128	DP+0		57°34'06"RT	31	31	7356		NIDAYA	23°19'9.33"	91°19'52.1"	
194		LOC-128/1	SP+0			32	64		LMRD	NIDAYA	23°19'7.94"	91°19'52.33"	Hold
195	AP-129	129	DP+0		26°29'53"LT	32		7420		NIDAYA			
196	AP-130	130	DP+4	4	32°57'24"LT	18	18	7438	LT LINE	NIDAYA	23°19'6.99"	91°19'51.96"	Hold
197	AP-131	131	DP+0		10°57'12"LT	40	40	7478	LT LINE	NIDAYA	23°19'6.54"	91°19'49.74"	
198		LOC-131/1	SP+0			41	123		LT. ROAD	NIDAYA	23°19'6.18"	91°19'49.26"	
199		LOC-131/2	SP+0			41				NIDAYA			

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											NORTHING	EASTING	
200	AP-132	132	SP+0		02°46'49"RT			7601		NIDAYA	23°19'4.94"	91°19'48.81"	
201	AP-133	133	DP+0		07°30'43"RT	38	38	7639		NIDAYA	23°19'0.97"	91°19'48.27"	
202		LOC-133/1	SP+0			43	86			NIDAYA			
203	AP-134	134	DP+0		13°22'57"RT	43		7725		NIDAYA	23°18'59.76"	91°19'48.03"	Hold
204	AP-135	135	SP+2	2	07°29'11"RT	31	31	7756	LT LINE	NIDAYA	23°18'57.09"	91°19'47.12"	
205	AP-136	136	DP+0		10°48'19"RT	41	41	7797		NIDAYA	23°18'56.23"	91°19'46.56"	
206	AP-137	137	DP+0		13°32'09"RT	50	50	7847		NIDAYA	23°18'55.18"	91°19'45.66"	Hold
207	AP-138	138	FP+0		77°28'16"LT	42	42	7889	ROAD	NIDAYA	23°18'54.13"	91°19'44.34"	
208		LOC-138/1	SP+4	4		33	66		LT, 11 KV, DMRD	NIDAYA			
209	AP-139	139	DP+0		13°08'42"LT	33		7955		NIDAYA	23°18'53.5"	91°19'43.01"	Hold
210	AP-140	140	SP+4	4	08°12'39"RT	42	42	7997	11 KV	NIDAYA	23°18'51.42"	91°19'43.6"	
211	AP-141	141	DP+0	0	51°16'58"LT	34	34	8031	11 KV, ROAD	NIDAYA	23°18'50.23"	91°19'44.26"	
212	AP-142	142	SP+0	0	02°03'16"RT	41	41	8072		NIDAYA	23°18'49.19"	91°19'44.68"	
213		LOC-142/1	SP+0	0		38	76			NIDAYA			
214	AP-143	143	DP+0	0	41°14'29"LT	38		8146		NIDAYA	23°18'48.75"	91°19'46.06"	Hold
215	AP-144	144	DP+4	4	46°59'34"RT	18	18	8166	ROAD, LT, 11 KV	NIDAYA	23°18'47.87"	91°19'48.53"	
216	AP-145	145	DP+0	0	42°27'51"RT	26	26	8192	LT	NIDAYA	23°18'48.07"	91°19'49.13"	
217	AP-146	146	DP+0	0	52°53'18"RT	35	35	8227		NIDAYA	23°18'47.69"	91°19'49.34"	Hold
218	AP-147	147	DP+4	4	43°26'40"LT	20	20	8247	11 KV, LT, DMRD	NIDAYA	23°18'46.62"	91°19'50.38"	
219	AP-148	148	DP+0	0	10°01'01"LT	44	44	8291	LT LINE	NIDAYA	23°18'46.06"	91°19'50"	
220	AP-149	149	SP+2	2	00°10'47"RT	43	43	8334	LT LINE	NIDAYA	23°18'44.67"	91°19'50.3"	
221		LOC-149/1	SP+0	0		45	224		NALA	NIDAYA			
222		LOC-149/2	DP+0	0		45				NIDAYA			
223		LOC-149/3	SP+0	0		45				NIDAYA			
224		LOC-149/4	SP+0	0		44				NIDAYA			
225	AP-150	150	DP+0	0	48°10'33"LT	45		8558		NIDAYA	23°18'43.37"	91°19'50.84"	Hold
226	AP-151	151	DP+2	2	11°59'07"LT	30	30	8588	DMRD, 11 KV	NIDAYA	23°18'36.58"	91°19'53.67"	
227	AP-152	152	DP+4	4	43°28'43"RT	30	30	8618		NIDAYA	23°18'36.23"	91°19'54.66"	Hold
228		LOC-152/1	SP+0	0		33	66		ROAD, 11 KV	NIDAYA			
229	AP-153	153	DP+0	0	28°25'37"RT	33		8684		NIDAYA	23°18'36.08"	91°19'55.72"	
230	AP-154	154	DP+0	0	46°36'52"RT	33	33	8717		NIDAYA	23°18'34.3"	91°19'57.15"	Hold
231	AP-155	155	FP+0	0	58°45'59"RT	41	41	8758	ROAD	NIDAYA	23°18'33.3"	91°19'57.34"	
232	AP-156	156	DP+0	0	21°25'56"RT	22	22	8780		NIDAYA	23°18'32.25"	91°19'56.47"	DOUBLE CIRCUIT
233	AP-157	157	SP+0	0	00°44'02"RT	39	39	8819		NIDAYA	23°18'32.34"	91°19'55.7"	DOUBLE CIRCUIT
234	AP-158	158	DP+0	0	20°22'57"LT	38	38	8857		NIDAYA	23°18'32.94"	91°19'54.49"	DOUBLE CIRCUIT
235		LOC-158/1	SP+0	0		36	109			NIDAYA			DOUBLE CIRCUIT
236		LOC-158/2	SP+0	0		36				NIDAYA			DOUBLE CIRCUIT
237	AP-159	159	SP+4	4	03°50'19"LT	37		8966		NIDAYA	23°18'33.55"	91°19'53.32"	DOUBLE CIRCUIT
238	AP-160	160	DP+0	0	20°33'22"RT	30	30	8996		NIDAYA	23°18'34.09"	91°19'49.55"	DOUBLE CIRCUIT
239		LOC-160/1	SP+0	0		43	86			NIDAYA			DOUBLE CIRCUIT
240	AP-161	161	SP+0	0	05°53'08"RT	43		9082		NIDAYA	23°18'34.18"	91°19'48.49"	DOUBLE CIRCUIT
241	AP-162	162	SP+0	0	02°08'04"RT	41	41	9123		NIDAYA	23°18'35.19"	91°19'45.77"	DOUBLE CIRCUIT
242	AP-163	163	DP+0	0	13°09'44"LT	27	27	9150		NIDAYA	23°18'36.09"	91°19'44.53"	DOUBLE CIRCUIT
243	AP-164	164	DP+0	0	22°47'40"RT	47	47	9197		NIDAYA	23°18'36.57"	91°19'43.75"	DOUBLE CIRCUIT Hold
244	AP-165	165	DP+4	4	52°20'46"LT	37	37	9234		NIDAYA	23°18'37.1"	91°19'42.19"	DOUBLE CIRCUIT
245	AP-166	166	DP+0	0	13°44'22"LT	27	27	9261		NIDAYA	23°18'37.94"	91°19'41.23"	DOUBLE CIRCUIT
246	AP-167	167	DP+0	0	19°28'02"LT	29	29	9290		NIDAYA	23°18'37.8"	91°19'40.28"	DOUBLE CIRCUIT
247	AP-168	168	DP+0	0	37°56'32"RT	36	36	9326		NIDAYA	23°18'37.43"	91°19'39.34"	DOUBLE CIRCUIT
248	AP-169	169	SP+0	0	04°06'32"LT	31	31	9357		NIDAYA	23°18'36.64"	91°19'38.4"	DOUBLE CIRCUIT
249		LOC-169/1	SP+0	0		37	74			NIDAYA	23°18'36.56"	91°19'37.31"	DOUBLE CIRCUIT
250	AP-170	170	SP+0	0	00°19'48"LT	37		9431		NIDAYA	23°18'36.21"	91°19'34.74"	DOUBLE CIRCUIT
251	AP-171	171	DP+0	0	54°58'40"RT	35	35	9466		NIDAYA	23°18'36.04"	91°19'33.51"	DOUBLE CIRCUIT
252	AP-172	172	FP+0	0	00°00'00"	22	22	9488		NIDAYA S/S	23°18'36.55"	91°19'32.98"	DOUBLE CIRCUIT

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EET, Udaipur

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POLE SUMMARY

POLE SUMMARY DETAILS							
TRIPURA STATE ASSOCIATED WITH NER POWER SYSTEM IMPROVEMENT PROJECT (DMS PACKAGE-03)							
TRI-DMS-03 (3604) CC-CS/86-NER/REW-2986/1/G2/NOA-I/7168 & 7169 Date: 22.02.2017							
LINE LINK: EXISTING 33/11 kV RAJNAGAR S/S TO PROPOSED 33/11 kV NIDAYA S/S							
TOTAL LINE LENGTH: 17.339 km							
S.No.	Type of Pole	Extension	Pole Qty	12 m Pole	14 m Pole	16 m Pole	Remarks
1	SP (GA-01)	0 m	123	123			
2		2 m	0		0		
3		4 m	11			11	
4	SP (GA-02)	0 m	76	76			
5		2 m	2		2		
6		4 m	19			19	
7	DP (GA-03)	0 m	129	258			
8		2 m	1		2		
9		4 m	59			118	
10	FP (GA-04)	0 m	6	24			
11		2 m	0		0		
12		4 m	2			8	
	TOTAL			481	4	156	

TECHNOFAB ENGINEERING LTD TRIPURA

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DETAIL SURVEY

POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
1	BAY	BAY	FP+0	0	00°00'00"								
						16	16			Rajnagar	23°13'56.73"	91°23'5.651"	
2	AP-1	1	DP+0	0	33°06'41"RT			16	LT LINE				
						38	38			Rajnagar	23°13'56.14"	91°23'5.694"	
3	AP-2	2	DP+0	0	16°00'28"RT			54					
						43	43			Rajnagar	23°13'55.06"	91°23'5.038"	
4	AP-3	3	DP+0	0	17°29'45"RT			97					
						31	31			Rajnagar	23°13'54.07"	91°23'3.96"	
5	AP-4	4	DP+0	0	32°24'16"RT			128					
						43	88			Rajnagar	23°13'53.61"	91°23'2.98"	
6		LOC-4/1	SP+0	0									
						45							
7	AP-5	5	SP+0	0	06°02'57"RT			216		Rajnagar	23°13'53.87"	91°22'59.88"	
						40	40						
8	AP-6	6	DP+0	0	12°45'24"LT			256		Rajnagar	23°13'54.12"	91°22'58.54"	
						30	66		VRD				
9		LOC-6/1	SP+0	0									
						36							
10	AP-7	7	FP+0	0	69°35'43"LT			322		Rajnagar	23°13'54.06"	91°22'56.22"	
						33	66		VRD				
11		LOC-7/1	SP+0	0									
						33							
12	AP-8	8	DP+0	0	18°06'16"LT			388		Rajnagar	23°13'52.04"	91°22'55.47"	
						40	40						
13	AP-9	9	SP+0	0	04°57'30"RT			428		Rajnagar	23°13'50.74"	91°22'55.45"	
						44	125						
14		LOC-9/1	SP+0	0									
						45							
15		LOC-9/2	SP+0	0									
						36							
16	AP-10	10	DP+0	0	13°53'31"RT			553			23°13'46.67"	91°22'55"	
						45	45		LT LINE				
17	AP-11	11	DP+0	0	25°23'29"RT			598			23°13'45.17"	91°22'54.42"	
						45	120						
18		LOC-11/1	SP+0	0									
						45			11 KV LINE,VRD,FOOT PATH				
19		LOC-11/2	SP+0	0									
						30							
20	AP-12	12	SP+0	0	02°33'07"LT			718		Gurangopur	23°13'42.4"	91°22'51.43"	
						45	86		VRD				
21		LOC-12/1	SP+0	0									
						41							
22	AP-13	13	DP+0	0	21°34'52"LT			804		Gurangopur	23°13'40.34"	91°22'49.38"	
						41	41		MRD,11KV				
23	AP-14	14	DP+0	0	10°03'59"RT			845		Gurangopur	23°13'39.09"	91°22'48.87"	

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						45	45		LT LINE				
24	AP-15	15	DP+0	0	31°49'39"RT			890		Gurangopur	23°13'37.82"	91°22'48.04"	
						25	25		MRD ,11KV				
25	AP-16	16	DP+0	0	24°07'42"RT			915		Gurangopur	23°13'37.45"	91°22'47.27"	
						45	45		LT LINE				
26	AP-17	17	SP+0	0	05°55'45"LT			960		Gurangopur	23°13'37.37"	91°22'45.62"	
						38	38		11 KV LINE				
27	AP-18	18	SP+0	0	07°46'42"LT			998		Gurangopur	23°13'37.2"	91°22'44.42"	
						40	40		11 KV LINE				
28	AP-19	19	DP+0	0	10°25'15"LT			1038			23°13'36.82"	91°22'43.09"	
						35	74			Gurangopur			
29		LOC-19/1	SP+0	0									
						39				Gurangopur			
30	AP-20	20	SP+0	0	02°09'40"RT			1112			23°13'35.73"	91°22'40.78"	
						42	119			Gurangopur			
31		LOC-20/1	SP+0	0									
						42							
32		LOC-20/2	SP+0	0									
						35							
33	AP-21	21	DP+0	0	18°05'00"LT			1231			23°13'34.1"	91°22'37"	
						37	37						
34	AP-22	22	SP+0	0	06°39'33"RT			1268			23°13'32.61"	91°22'35.09"	
						34	34						
35	AP-23	23	DP+0	0	14°58'26"RT			1302			23°13'32.61"	91°22'35.09"	
						45	45						
36	AP-24	24	DP+0	0	12°03'03"LT			1347			23°13'32.08"	91°22'33.62"	
						40	40						
37	AP-25	25	SP+0	0	08°36'02"RT			1387			23°13'31.35"	91°22'32.43"	
						34	34		BRICK ROAD				
38	AP-26	26	SP+0	0	03°53'41"RT			1421			23°13'30.88"	91°22'31.34"	
						45	45		NALA				
39	AP-27	27	DP+0	0	14°26'08"RT			1466			23°13'30.35"	91°22'29.84"	
						45	86						
40		LOC-27/1	SP+0	0									
						41			11 KV.VRD				
41	AP-28	28	DP+0	0	15°00'50"RT			1552			23°13'30.02"	91°22'26.82"	
						45	45						
42	AP-29	29	DP+0	0	13°26'24"RT			1597			23°13'30.24"	91°22'25.27"	
						31	31						
43	AP-30	30	SP+0	0	06°55'40"RT			1628			23°13'30.61"	91°22'24.24"	
						43	126						
44		LOC-30/1	SP+0	0									
						45							
45		LOC-30/2	SP+0	0									
						38							
	AP-31	31	SP+0	0	05°18'18"LT			1754			23°13'32.59"	91°22'20.35"	

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						42	42		11KV				
47	AP-32	32	DP+0	0	10°35'35"RT			1796			23°13'33.13"	91°22'19"	
						32	32						
48	AP-33	33	SP+0	0	05°26'47"LT			1828			23°13'33.7"	91°22'18.08"	
						42	86						
49		LOC-33/1	SP+0	0									
						44							
50	AP-34	34	DP+0	0	23°13'22"RT			1914			23°13'35.04"	91°22'15.43"	
						44	87						
51		LOC-34/1	SP+0	0									
						43							
52	AP-35	35	DP+0	0	14°19'47"RT			2001			23°13'37.27"	91°22'13.54"	
						38	38						
53	AP-36	36	DP+0	0	17°09'57"LT			2039			23°13'38.4"	91°22'13"	
						26	26		MRD,11KV				
54	AP-37	37	DP+0	0	30°16'35"LT			2065			23°13'39.04"	91°22'12.39"	
						39	39		11KV LINE				
55	AP-38	38	SP+0	0	04°12'18"LT			2104			23°13'39.45"	91°22'11.08"	
						45	45						
56	AP-39	39	SP+0	0	08°31'16"LT			2149			23°13'39.86"	91°22'9.394"	
						43	43						
57	AP-40	40	DP+0	0	10°52'08"LT			2192			23°13'40"	91°22'7.88"	
						27	27		MRD,11KV				
58	AP-41	41	DP+0	0	20°32'19"LT			2219			23°13'39.93"	91°22'6.931"	
						43	43						
59	AP-42	42	DP+0	0	27°42'39"RT			2262			23°13'39.33"	91°22'5.566"	
						39	39						
60	AP-43	43	DP+0	0	12°49'53"RT			2301			23°13'39.38"	91°22'4.194"	
						44	88						
61		LOC-43/1	SP+0	0									
						44							
62	AP-44	44	DP+0	0	17°33'26"LT			2389			23°13'40.13"	91°22'1.194"	
						32	32		MRD				
63	AP-45	45	DP+0	0	14°35'39"RT			2421			23°13'40.08"	91°22'0.069"	
						45	45		11KV LINE				
64	AP-46	46	SP+0	0	05°29'55"LT			2466			23°13'40.39"	91°21'58.51"	
						39	39		11KV LINE				
65	AP-47	47	SP+0	0	01°35'45"RT			2505			23°13'40.54"	91°21'57.14"	
						42	84						
66		LOC-47/1	SP+0	0									
						42							
67	AP-48	48	SP+0	0	03°27'41"LT			2589			23°13'40.93"	91°21'54.21"	
						42	42						
68	AP-49	49	DP+0	0	10°46'21"LT			2631			23°13'41.05'	91°21'52.74"	
						44			11KV LINE				

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
69		LOC-49/1	SP+0	0			75						
						31							
70	AP-50	50	SP+0	0	05°58'40"LT			2706			23°13'40.79"	91°21'50.1"	
						36	36		11KV LINE,NALA				
71	AP-51	51	DP+0	0	16°23'22"LT			2742			23°13'40.55"	91°21'48.87"	
						45	45						
72	AP-52	52	DP+0	0	13°16'43"RT			2787			23°13'39.86"	91°21'47.47"	
						36	36		MRD,11KV				
73	AP-53	53	DP+0	0	14°56'13"LT			2823			23°13'39.55"	91°21'46.25"	
						37	37						
74	AP-54	54	SP+0	0	07°14'58"LT			2860			23°13'38.95"	91°21'45.13"	
						44	44						
75	AP-55	55	SP+0	0	09°29'09"RT			2904			23°13'38.1"	91°21'43.91"	
						45	45						
76	AP-56	56	DP+0	0	42°52'21"RT			2949			23°13'37.4"	91°21'42.47"	
						42	42						
77	AP-57	57	DP+0	0	25°27'31"RT			2991			23°13'37.74"	91°21'41.1"	
						43	83						
78		LOC-57/1	SP+0	0									
						40							
79	AP-58	58	SP+0	0	07°51'17"LT			3074			23°13'38.33"	91°21'38.38"	
						38	38		MRD,2Nos 11KV				
80	AP-59	59	DP+0	0	15°18'32"RT			3112			23°13'38.45"	91°21'37.04"	
						44	44						
81	AP-60	60	DP+0	0	11°35'14"RT			3156			23°13'38.95"	91°21'35.59"	
						40	40						
82	AP-61	61	SP+0	0	03°14'19"LT			3196			23°13'39.65"	91°21'34.39"	
						33	91						
83		LOC-61/1	SP+0	0									
						33							
84		LOC-61/2	SP+4	4									
						25			MRD,2Nos 11KV				
85	AP-62	62	DP+4	4	41°33'19"LT			3287			23°13'41.09"	91°21'31.59"	
						39	39						
86	AP-63	63	DP+0	0	20°14'11"LT			3326			23°13'40.81"	91°21'30.26"	
						45	102		11KV LINE				
87		LOC-63/1	SP+4	4									
						40							
88		LOC-63/2	SP+4	4									
						17			MRD,11KV				
89	AP-64	64	DP+4	4	39°43'11"RT			3428			23°13'39.03"	91°21'27.26"	
						45	90						
90		LOC-64/1	SP+4	4									
						45							
91	AP-65	65	DP+0	0	18°58'13"RT			3518			23°13'39.38"	91°21'24.09"	

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											NORTHING	EASTING	
						40	40						
92	AP-66	66	DP+0	0	11°13'54"LT			3558			23°13'39.96"	91°21'22.81"	
						31							
93		LOC-66/1	SP+4	4			64						
						33			MRD,11KV				
94	AP-67	67	DP+4	4	29°49'23"LT			3622			23°13'40.49"	91°21'20.63"	
						45							
95		LOC-67/1	SP+0	0			90						
						45							
96	AP-68	68	SP+0	0	03°33'21"RT			3712			23°13'39.7"	91°21'17.5"	
						45							
97		LOC-68/1	SP+0	0			90						
						45			NALA				
98	AP-69	69	DP+0	0	03°25'51"LT			3802			23°13'39.12"	91°21'14.42"	
						42							
99		LOC-69/1	SP+4	4			85						
						43			MRD,11KV				
100	AP-70	70	FP+4	4	62°22'39"RT			3867			23°13'38.41"	91°21'11.54"	
						40	40						
101	AP-71	71	DP+4	4	10°51'58"LT			3927			23°13'39.37"	91°21'10.58"	
						41	41		11KV LINE				
102	AP-72	72	DP+4	4	21°05'52"LT			3968			23°13'40.17"	91°21'9.412"	
						40							
103		LOC-72/1	SP+0	0			76						
						36							
104	AP-73	73	DP+0	0	14°38'04"LT			4044			23°13'40.83"	91°21'6.836"	
						40							
105		LOC-73/1	SP+0	0			81						
						41							
106	AP-74	74	DP+4	4	11°20'26"LT			4125			23°13'40.86"	91°21'3.987"	
						41	41		11KV LINE				
107	AP-75	75	DP+4	4	15°01'04"LT			4166			23°13'40.62"	91°21'2.582"	
						45	45						
108	AP-76	76	FP+4	4	60°58'17"RT			4211			23°13'39.95"	91°21'1.078"	
						41	41		MRD ,11KV				
109	AP-77	77	SP+4	4	07°38'04"LT			4252			23°13'40.72"	91°20'59.9"	
						42	42		11KV LINE				
110	AP-78	78	DP+4	4	51°35'30"LT			4294			23°13'41.36"	91°20'58.59"	
						40							
111		LOC-78/1	SP+0	0			85						
						45							
112	AP-79	79	DP+0	0	43°14'57"LT			4379			23°13'40.16"	91°20'55.65"	
						45							
113		LOC-79/1	SP+0	0			90						
						45							
	AP-80	80	DP+0	0	21°31'51"LT			4469			23°13'37.61"	91°20'54.49"	

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POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						45							
115		LOC-80/1	SP+0	0			85						
						40							
116	AP-81	81	SP+0	0	01°17'31"LT			4554					
						44	44				23°13'34.85"	91°20'54.42"	
117	AP-82	82	DP+0	0	18°49'29"RT			4598					
						45	45				23°13'33.42"	91°20'54.44"	
118	AP-83	83	SP+4	4	09°59'10"RT			4643					
						45	45				23°13'51.98"	91°20'53.93"	
119	AP-84	84	DP+4	4	24°19'10"RT			4688	11KV LINE				
						40	40				23°13'30.67"	91°20'53.17"	
120	AP-85	85	DP+0	0	10°50'25"RT			4728					
						45	45				23°13'29.88"	91°20'52.05"	
121	AP-86	86	DP+4	4	28°04'26"RT			4773	11KV LINE				
						42					23°13'29.18"	91°20'50.55"	
122		LOC-86/1	SP+0	0			85						
						43							
123	AP-87	87	DP+0	0	29°15'34"LT			4858					
						29	29				23°13'29.28"	91°20'47.56"	
124	AP-88	88	SP+0	0	04°45'49"RT			4887	MRD,11KV				
						43					23°13'28.85"	91°20'46.65"	
125		LOC-88/1	SP+0	0			88						
						45							
126	AP-89	89	SP+0	0	02°42'29"RT			4975					
						28	28				23°13'27.71"	91°20'43.67"	
127	AP-90	90	DP+0	0	23°07'52"RT			5003					
						41					23°13'27.41"	91°20'42.76"	
128		LOC-90/1	SP+0	0			85		MRD				
						44							
129	AP-91	91	DP+0	0	13°55'53"RT			5088					
						39	39				23°13'27.57"	91°20'39.77"	
130	AP-92	92	DP+0	0	25°27'31"LT			5127	MRD				
						42	42				23°13'27.95"	91°20'38.46"	
131	AP-93	93	DP+0	0	18°00'15"LT			5169					
						39	39				23°13'28.36"	91°20'37.05"	
132	AP-94	94	SP+0	0	04°05'08"LT			5208					
						42	42				23°13'28.34"	91°20'35.68"	
133	AP-95	95	DP+0	0	15°46'11"LT			5250					
						38	38				23°13'28.23"	91°20'34.2"	
134	AP-96	96	DP+0	0	21°04'27"RT			5288					
						45	45				23°13'27.79"	91°20'32.94"	
135	AP-97	97	DP+0	0	16°39'35"RT			5333	MRD,11KV LINE				
						33	33				23°13'27.81"	91°20'31.29"	
136	AP-98	98	SP+0	0	06°47'53"RT			5366	MRD,11KV LINE				
						41	41				23°13'28.12"	91°20'30.19"	
137	AP-99	99	DP+0	0	31°57'07"LT			5407					
											23°13'28.66"	91°20'28.88"	

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DETAIL SURVEY

POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
138	AP-100	100	DP+0	0	11°59'03"LT	45	45						
								5452					
139		LOC-100/1	SP+0	0		45	88		FOOT PATH,LT LINE		23°13'28.45"	91°20'27.23"	
140	AP-101	101	DP+0	0	19°15'33"RT	43							
								5540					
141	AP-102	102	DP+4	4	30°31'47"LT	35	35		MRD		23°13'27.47"	91°20'24.33"	
								5575					
142	AP-103	103	DP+0	0	19°44'43"RT	45	45		11KV LINE		23°13'27.46"	91°20'23.1"	
								5620					
143	AP-104	104	DP+0	0	14°35'54"RT	43	43		11KV LINE		23°13'26.7"	91°20'21.73"	
								5663					
144		LOC-104/1	SP+0	0		42	87				23°13'26.42"	91°20'20.26"	
145	AP-105	105	SP+0	0	05°38'54"RT	45							
								5750					
146	AP-106	106	DP+0	0	14°30'01"RT	43	43		LT LINE		23°13'26.58"	91°20'17.09"	
								5793					
147	AP-107	107	SP+4	4	01°28'59"LT	30	30				23°13'26.8"	91°20'15.61"	
								5823					
148	AP-108	108	SP+0	0	07°13'28"LT	31	31		11KV LINE		23°13'27.18"	91°20'14.66"	
								5854					
149	AP-109	109	DP+0	0	13°51'29"LT	45	45				23°13'27.56"	91°20'13.63"	
								5899					
150		LOC-109/1	SP+4	4		41	82				23°13'27.93"	91°20'12.08"	
151	AP-110	110	DP+4	4	23°46'38"LT	41			VRD ,LT				
								5981					
152	AP-111	111	DP+4	4	33°27'01"RT	37	37		MRD,11KV(2NOS)		23°13'27.96"	91°20'9.199"	
								6018					
153		LOC-111/1	SP+4	4		41	131		11KV LINE		23°13'27.5"	91°20'8.009"	
154		LOC-111/2	SP+0	0		45							
155	AP-112	112	SP+0	0	06°01'57"RT	45							
								6149					
156	AP-113	113	DP+4	4	10°09'09"RT	41	41				23°13'28.32"	91°20'3.144"	
								6190					
157	AP-114	114	SP+4	4	07°09'36"LT	37	37		11KV,LT LINE		23°13'28.7"	91°20'1.768"	
								6227					
158	AP-115	115	DP+4	4	22°24'55"RT	44	44				23°13'29.24"	91°20'0.6"	
								6271					
159	AP-116	116	DP+0	0	44°22'41"LT	16	16		MRD,2Nos 11KV		23°13'29.71"	91°19'59.15"	
								6287					
160		LOC-116/1	SP+4	4		45			LT LINE	Radhanager	23°13'30.06"	91°19'58.72"	

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POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
161		LOC-116/2	SP+0	0		41	184		BRICK ROAD(2NO)	Radhanager			
162		LOC-116/3	SP+0	0		40			VRD	Radhanager			
163		LOC-116/4	SP+4	4		22							
164	AP-117	117	DP+4	4	43°07'56"LT	36			LT ,FOOT PATH	Radhanager			
165	AP-118	118	DP+4	4	46°22'49"RT	17	17	6471	MRD,2Nos 11KV	Radhanager	23°13'29.8"	91°19'52.25"	
166		LOC-118/1	SP+4	4		45	83	6488			23°13'29.4"	91°19'51.83"	
167	AP-119	119	DP+0	0	35°08'55"RT	38				Radhanager			
168	AP-120	120	DP+0	0	25°27'31"LT	34	34	6571	11KV LINE, VRD	Radhanager			
169	AP-121	121	DP+0	0	44°46'12"RT	45	45	6605	MRD,11KV,2 Nos LT LINE		23°13'29.44"	91°19'48.91"	
170	AP-122	122	DP+0	0	34°09'35"RT	34	34	6650	LT LINE	Radhanager	23°13'30.08"	91°19'47.96"	
171	AP-123	123	DP+0	0	13°19'26"RT	45	45	6684	MRD,11KV LINE	Radhanager	23°13'30.35"	91°19'46.34"	
172	AP-124	124	DP+0	0	14°58'34"RT	39	39	6729			23°13'31.26"	91°19'45.66"	
173	AP-125	125	SP+0	0	01°50'26"LT	44	44	6768	MRD,11KV LINE	Radhanager	23°13'32.72"	91°19'45.64"	
174	AP-126	126	DP+0	0	10°51'05"LT	36	36	6812			23°13'33.96"	91°19'45.94"	
175		LOC-126/1	SP+0	0		43	85	6848	MRD,11KV LINE	Radhanager	23°13'35.23"	91°19'46.66"	
176	AP-127	127	SP+0	0	03°32'20"RT	42			FOOT PATH,LT LINE	Radhanager	23°13'36.25"	91°19'47.28"	
177	AP-128	128	SP+0	0	08°17'26"LT	41	41	6933					
178		LOC-128/1	SP+0	0		43	85	6974	BRICK ROAD,11KV LINE	Radhanager	23°13'38.86"	91°19'48.23"	
179	AP-129	129	DP+0	0	12°32'25"LT	42					23°13'40.13"	91°19'48.61"	
180		LOC-129/1	SP+0	0		45	90	7059		Radhanager			
181	AP-130	130	SP+0	0	01°08'04"RT	45				Radhanager	23°13'42.87"	91°19'48.96"	
182	AP-131	131	SP+0	0	01°27'20"LT	29	29	7149	LT LINE	Radhanager			
183		132	SP+0	0	06°58'22"LT	45	45	7178	MRD,11KV LINE	Radhanager	23°13'45.79"	91°19'48.64"	
								7223			23°13'46.73"	91°19'48.56"	
										Radhanager	23°13'48.22"	91°19'48.47"	

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POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
184	AP-133	133	SP+0	0	08°07'48"RT	36	36		MRD ,11KV,LT LINE				
								7259					
185		LOC-133/1	SP+0	0		42	129		NALA	Radhanager	23°13'49.39"	91°19'48.24"	
186		LOC-133/2	SP+0	0		42			FOOT PATH,LT LINE	Radhanager			
187	AP-134	134	SP+0	0	01°45'47"RT	45				Radhanager			
								7388					
188		LOC-134/1	SP+0	0		42	82		LT LINE		23°13'53.58"	91°19'48.09"	
										Radhanager			
189	AP-135	135	SP+0	0	01°34'04"RT	40							
								7470		Radhanager	23°13'56.25"	91°19'47.95"	
190	AP-136	136	SP+0	0	05°16'50"LT	43	43		BRICK ROAD				
								7513			23°13'57.65"	91°19'47.86"	
191		LOC-136/1	SP+0	0		41	130			Radhanager			
192		LOC-136/2	SP+0	0		45			BRICK ROAD,LT LINE	Radhanager			
193	AP-137	137	SP+0	0	01°18'10"LT	44			LT LINE				
								7643					
194	AP-138	138	SP+0	0	02°07'16"RT	44	44			Radhanager	23°14'1.837"	91°19'47.17"	
								7687					
195	AP-139	139	DP+0	0	10°52'45"LT	40	40				23°14'3.232"	91°19'46.91"	
								7727					
196	AP-140	140	SP+0	0	03°47'50"LT	42	42				23°14'4.531"	91°19'46.72"	
								7769					
197	AP-141	141	SP+0	0	07°23'46"LT	43	43		MRD		23°14'5.826"	91°19'46.25"	
								7812					
198	AP-142	142	DP+0	0	18°49'52"RT	39	39				23°14'7.12"	91°19'45.67"	
								7851					
199		LOC-142/1	SP+0	0		40	83		NALA,LT LINE		23°14'8.218"	91°19'44.98"	
200	AP-143	143	SP+0	0	04°43'31"LT	43		7934					
201		LOC-143/1	SP+0	0		45	90				23°14'10.87"	91°19'44.42"	
202	AP-144	144	SP+0	0	04°12'22"RT	45							
								8024					
203		LOC-144/1	SP+0	0		40	79		LT LINE		23°14'13.76"	91°19'43.54"	
204	AP-145	145	SP+0	0	03°16'26"LT	39							
								8103					
205		LOC-145/1	SP+0	0		44					23°14'16.29"	91°19'42.98"	
206		LOC-145/2	SP+0	0		45			FOOT PATH,LT LINE				

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PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
207		LOC-145/3	SP+0	0		45	224						
208		LOC-145/4	SP+0	0		45			LT LINE				
209	AP-146	146	SP+0	0	02°09'14"RT	45							
210	AP-147	147	SP+0	0	01°22'57"RT	45	45	8327			23°14'23.35"	91°19'40.96"	
211	AP-148	148	DP+0	0	14°03'48"RT	45	45	8372			23°14'24.68"	91°19'40.52"	
212		LOC-148/1	SP+0	0		44	132	8417	11KV LINE		23°14'26.14"	91°19'40.08"	
213		LOC-148/2	SP+0	0		45							
214	AP-149	149	SP+0	0	06°03'45"RT	43			VRD,NALA,11KV,LT LINE				
215	AP-150	150	SP+0	0	03°50'48"LT	44	44	8549			23°14'30.43"	91°19'39.96"	
216		LOC-150/1	SP+0			40	85	8593		Rangamora	23°14'31.86"	91°19'40.08"	
217	AP-151	151	DP+0	0	11°31'18"RT	45			NALA				
218	AP-152	152	SP+2	2	03°20'02"RT	36	36	8678			23°14'34.62"	91°19'40.12"	
219		LOC-152/1	SP+0	0		43	88	8714		Rangamora	23°14'35.77"	91°19'40.38"	
220	AP-153	153	SP+0	0	07°10'10"LT	45			BRICK ROAD,LT LINE				
221		LOC-153/1	SP+0	0		45	89	8802			23°14'38.57"	91°19'41.23"	
222	AP-154	154	DP+4	4	18°12'07"LT	44				Rangamora			
223	AP-155	155	DP+4	4	18°00'15"RT	31	31	8891	LT LINE		23°14'41.44"	91°19'41.69"	
224	AP-156	156	SP+4	4	02°21'31"RT	45	45	8922	MRD,11KV				
225	AP-157	157	DP+0	0	14°14'54"LT	44	44	8967	LT LINE	Rangamora	23°14'42.44"	91°19'41.5"	
226		LOC-157/1	SP+0	0		43	133	9011			23°14'43.91"	91°19'41.73"	
227		LOC-157/2	SP+0	0		45			VRD		23°14'45.34"	91°19'41.88"	
228	AP-158	158	SP+2	2	01°20'27"RT	45				Rangamora			
		LOC-158/1	SP+0	0				9144					
									LT LINE	Rangamora	23°14'49.62"	91°19'41.2"	

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
									LT LINE				
230		LOC-158/2	SP+0	0		45							
							45			Rangamora			
231	AP-159	159	DP+0	0	01°34'59"LT			9189					
						45					23°14'53.87"	91°19'40.51"	
232		LOC-159/1	SP+0	0			132			Rangamora			
						42							
233		LOC-159/2	SP+0	0									
						45							
234	AP-160	160	SP+0	0	04°53'52"RT			9321			23°14'58.12"	91°19'39.68"	
						45	45		NALA	Rangamora			
235	AP-161	161	DP+0	0	07°40'16"RT			9366			23°14'59.33"	91°19'39.56"	
						42							
236		LOC-161/1	SP+0	0			124						
						37							
237		LOC-161/2	SP+0	0									
						45							
238	AP-162	162	DP+0	0	12°40'23"RT			9490			23°15'3.624"	91°19'39.76"	
						45	45		MRD,11KV				
239	AP-163	163	DP+0	0	14°20'41"LT			9535			23°15'4.668"	91°19'40.06"	
						42	42						
240	AP-164	164	DP+4	4	41°59'58"RT			9577			23°15'6.033"	91°19'40.08"	
						25	25		MRD,11KV(2nos)				
241	AP-165	165	DP+4	4	34°06'28"RT			9602		Rangamora	23°15'6.625"	91°19'40.67"	
						45	45						
242	AP-166	166	DP+0	0	66°25'49"LT			9647			23°15'6.967"	91°19'42.25"	
						42	42						
243	AP-167	167	DP+0	0	20°24'04"LT			9689			23°15'8.302"	91°19'42.51"	
						45							
244		LOC-167/1	SP+0	0			90						
						45							
245	AP-168	168	SP+0	0	05°10'27"LT			9779			23°15'11.25"	91°19'41.95"	
						28	28		MRD	Rangamora			
246	AP-169	169	DP+0	0	35°00'12"LT			9807			23°15'12.13"	91°19'41.69"	
						45	45						
247	AP-170	170	DP+0	0	10°39'12"RT			9852			23°15'13.06"	91°19'40.48"	
						40	40						
248	AP-171	171	DP+0	0	17°25'32"LT			9892			23°15'14.05"	91°19'39.59"	
						40	40		NALA				
249	AP-172	172	DP+4	4	12°11'29"RT			9932			23°15'14.76"	91°19'38.42"	
						45	45		11KV,LT LINE				
250	AP-173	173	DP+4	4	22°34'39"RT			9977			23°15'15.82"	91°19'37.28"	
						41	41		MRD,LT LINE				
251	AP-174	174	DP+4	4	17°21'19"RT			10018			23°15'17.05"	91°19'36.74"	
						42	42		MRD,11KV				
252	175	175	DP+4	4	19°28'00"LT			10060			23°15'18.41"	91°19'36.62"	

TECHNOFAB ENGINEERING LTD TRIPURA

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Yogesh Kumar Darjee
(Asstt. Manager)
Technofab Engineering Ltd
Udaipur-Tripura

प्रियांशु श्रीवास्तव / Priyanshu Srivastav
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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						43	43						
253	AP-176	176	SP+4	4	04°50'27"LT			10103			23°15'19.67"	91°19'36"	
						42	42		111KV LINE				
254	AP-177	177	DP+4	4	16°27'17"LT			10145			23°15'20.87"	91°19'35.28"	
						44	44						
255	AP-178	178	SP+4	4	01°11'52"RT			10189		Rangamora	23°15'21.83"	91°19'34.15"	
						40	40		11KV LINE				
256	AP-179	179	DP+4	4	34°21'54"RT			10229			23°15'22.7"	91°19'33.11"	
						41	41						
257	AP-180	180	DP+4	4	11°25'19"LT			10270			23°15'23.99"	91°19'32.78"	
						42	42		MRD,11KV(2NOS),LT LINE				
258	AP-181	181	DP+4	4	20°49'54"RT			10312			23°15'25.22"	91°19'32.17"	
						35	35		MRD,11KV(2NOS),LT LINE(2NOS)				
259	AP-182	182	SP+4	4	05°34'17"LT			10347			23°15'26.36"	91°19'32.08"	
						44	134						
260		LOC-182/1	SP+0	0									
						45							
261		LOC-182/2	SP+0	0									
						45			FOOT PATH				
262	AP-183	183	SP+4	4	04°49'46"LT			10481			23°15'30.74"	91°19'31.29"	
						38	38		MRD,11KV LINE				
263	AP-184	184	DP+4	4	15°37'26"RT			10519			23°15'31.94"	91°19'30.96"	
						44	88						
264		LOC-184/1	SP+0	0									
						44							
265	AP-185	185	SP+4	4	08°03'20"RT			10607			23°15'34.8"	91°19'31.03"	
						35	35		MRD,11KV LINE				
266	AP-186	186	SP+4	4	07°27'47"LT			10642			23°15'35.91"	91°19'31.23"	
						45	45		VRD ,11KV LINE				
267	AP-187	187	SP+0	0	05°23'55"RT			10667			23°15'37.37"	91°19'31.28"	
						43	43		LT LINE				
268	AP-188	188	DP+0	0	10°03'38"RT			10730			23°15'38.77"	91°19'31.47"	
						42	42		LT LINE				
269	AP-189	189	SP+0	0	01°23'57"LT			10772			23°15'40.08"	91°19'31.91"	
						44	84						
270		LOC-189/1	SP+0	0									
						40							
271	AP-190	190	DP+4	4	13°19'28"LT			10856			23°15'42.72"	91°19'32.72"	
						36	36		MRD ,11KV LINE				
272	AP-191	191	SP+4	4	01°57'39"LT			10892			23°15'43.89"	91°19'32.78"	
						45	45						
273	AP-192	192	DP+0	0	20°04'19"LT			10937			23°15'45.42"	91°19'32.8"	
						45	45						
274	AP-193	193	SP+4	4	02°54'28"RT			10982			23°15'46.75"	91°19'32.29"	
						36	36		MRD ,11KV LINE				
275	AP-194	194	DP+4	4	24°45'00"LT			11018			23°15'47.88"	91°19'31.92"	

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						43							
276		LOC-194/1	SP+0	0									
						45	132						
277		LOC-194/2	SP+0	0									
						44							
278	AP-195	195	SP+0	0	05°09'28"RT			11150			23°15'51.1"	91°19'28.85"	
						43	43		11KV LINE				
279	AP-196	196	DP+0	0	16°03'31"LT			11193			23°15'52.23"	91°19'27.96"	
						43	43		LT LINE				
280	AP-197	197	DP+2	2	21°37'56"LT			11236			23°15'53.09"	91°19'26.75"	
						45	45						
281	AP-198	198	DP+0	0	58°42'30"RT			11281			23°15'53.5"	91°19'25.23"	
						32	32						
282	AP-199	199	DP+4	4	24°45'00"LT			11313			23°15'54.5"	91°19'24.94"	
						42	42		MRD,11KV LINE				
283	AP-200	200	DP+4	4	28°41'13"RT			11355			23°15'55.66"	91°19'23.73"	
						43	43						
284	AP-201	201	DP+0	0	17°09'57"RT			11398			23°15'57.02"	91°19'23.33"	
						43							
285		LOC-201/1	SP+0	0			88						
						45			MRD, NALA				
286	AP-202	202	SP+0	0	09°47'19"LT			11486			23°16'0.017"	91°19'23.43"	
						43	43						
287	AP-203	203	DP+0	0	07°24'13"LT			11529			23°16'1.413"	91°19'23.24"	
						45			BRICK ROAD				
288		LOC-203/1	SP+0	0									
						43	132						
289		LOC-203/2	SP+0	0									
						44							
290	AP-204	204	DP+0	0	05°03'49"RT			11661			23°16'5.561"	91°19'22.06"	
						45							
291		LOC-204/1	SP+0	0									
						45	135						
292		LOC-204/2	SP+0	0									
						45							
293	AP-205	205	SP+0	0	03°31'56"RT			11796			23°16'9.877"	91°19'21.26"	
						42	42						
294	AP-206	206	DP+0	0	16°37'39"LT			11838			23°16'11.24"	91°19'21.11"	
						40	40						
295	AP-207	207	DP+4	4	12°00'33"LT			11878			23°16'12.43"	91°19'20.56"	
						41	41		MRD,11KV LINE				
296	AP-208	208	DP+4	4	29°10'41"RT			11919			23°16'13.53"	91°19'19.74"	
						35	35		MRD				
297	AP-209	209	DP+0	0	26°53'17"LT			11954			23°16'14.67"	91°19'19.62"	

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											NORTHING	EASTING	
						45			FOOT PATH				
298		LOC-209/1	SP+0	0			83						
						38							
299	AP-210	210	SP+0	0	01°29'18"LT			12037			23°16'16.96"	91°19'18.04"	
						45	45						
300	AP-211	211	DP+0	0	05°42'38"RT			12082			23°16'18.18"	91°19'17.18"	
						43							
301		LOC-211/1	SP+0	0									
						42							
302		LOC-211/2	SP+0	0			172						
						45							
303		LOC-211/3	SP+0	0									
						42							
304	AP-212	212	DP+4	4	05°14'50"RT			12254			23°16'23.16"	91°19'14.41"	
						44	44		11KV LINE				
305	AP-213	213	SP+4	4	06°38'29"RT			12298			23°16'24.49"	91°19'13.83"	
						43	43		VRD				
306	AP-214	214	SP+4	4	01°44'45"RT			12341			23°16'25.85"	91°19'13.43"	
						30	30		MRD,11KV LINE				
307	AP-215	215	DP+4	4	26°43'56"RT			12371			23°16'26.79"	91°19'13.14"	
						42							
308		LOC-215/1	SP+0	0									
						45	132						
309		LOC-215/2	SP+0	0									
						45			MRD				
310	AP-216	216	DP+0	0	17°43'57"LT			12503			23°16'31.02"	91°19'14"	
						43							
311		LOC-216/1	SP+0	0									
						44			LT LINE				
312		LOC-216/2	SP+0	0			174			Vobanepur			
						44			11KV LINE				
313		LOC-216/3	SP+0	0									
						43			VRD				
314	AP-217	217	DP+0	0	10°17'22"LT			12677			23°16'36.68"	91°19'14.07"	
						38	38		MRD				
315	AP-218	218	DP+4	4	38°58'22"RT			12715			23°16'37.91"	91°19'13.84"	
						45	45		11KV LINE				
316	AP-219	219	DP+4	4	84°31'31"LT			12760			23°16'39.19"	91°19'14.88"	
						30			VRD,LT LINE	Vobanepur			
317		LOC-219/1	SP+0				64						
						34							
318	AP-220	220	DP+4	4	39°16'12"RT			12824		Vobanepur	23°16'40.41"	91°19'12.79"	
						43			LT LINE(2NOS)				
319		LOC-220/1	SP+0	0			88						
						45			LT LINE				
	AP-221	221	SP+0	0	04°23'55"LT			12912		Vobanepur	23°16'43.26"	91°19'11.91"	

TECHNO-B ENGINEERING TRIPURA

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											NORTHING	EASTING	
						30	30						
321	AP-222	222	DP+0	0	27°34'57"RT			12942			23°16'44.16"	91°19'11.54"	
						36	36		MRD, LT LINE	Vobanepur			
322	AP-223	223	DP+0	0	15°59'12"LT			12978			23°16'45.34"	91°19'11.71"	
						43	88						
323		LOC-223/1	SP+0	0									
						45			BRICK ROAD				
324	AP-224	224	DP+0	0	16°57'24"LT			13066		Vobanepur	23°16'48.26"	91°19'11.39"	
						45	45						
325	AP-225	225	SP+0	0	04°50'16"RT			13111			23°16'49.62"	91°19'10.77"	
						45	132						
326		LOC-225/1	SP+0	0									
						42			LT LINE				
327		LOC-225/2	SP+0	0									
						45				Vobanepur			
328	AP-226	226	SP+0	0	03°29'30"LT			13243			23°16'53.7"	91°19'9.353"	
						42	42						
329	AP-227	227	DP+0	0	16°16'15"RT			13285			23°16'55.03"	91°19'8.985"	
						45	134						
330		LOC-227/1	SP+0	0									
						45				Vobanepur			
331		LOC-227/2	SP+0	0									
						44							
332	AP-228	228	SP+0	0	06°35'09"LT			13419			23°16'59.38"	91°19'9.141"	
						42	129						
333		LOC-228/1	SP+0	0						Vobanepur			
						44			LT LINE(2NOS)				
334		LOC-228/2	SP+0	0									
						43							
335	AP-229	229	DP+0	0	17°43'57"LT			13548			23°17'3.546"	91°19'8.772"	
						44	89		BRICK ROAD,LT LINE				
336		LOC-229/1	SP+0	0						Vobanepur			
						45							
337	AP-230	230	SP+0	0	06°05'51"LT			13637			23°17'6.296"	91°19'7.576"	
						40	102						
338		LOC-230/1	SP+0	0									
						40				Vobanepur			
339		LOC-230/2	SP+0	0									
						22			MRD				
340	AP-231	231	DP+0	0	50°52'04"RT			13739			23°17'9.237"	91°19'5.885"	
						43	43			Vobanepur			
341	AP-232	232	DP+0	0	12°22'24"LT			13782			23°17'10.51"	91°19'6.468"	
						42	83						
342		LOC-232/1	SP+0	0									
						41				Vobanepur			
	AP-233	233	DP+4	4	12°26'49"LT			13855			23°17'13.15"	91°19'6.998"	

TECHNO AB ENGINEERING TRIPURA SUBMITTED BY TECHNO AB ENGINEERING LTD

Yogesh Kumar
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Udaipur

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DETAIL SURVEY

POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						45							
344	AP-234	234	SP+4	4	01°13'33"RT		45		LT LINE				
								13910			23°17'14.61"	91°19'6.944"	
						45							
345	AP-235	235	SP+0	0	09°47'00"LT		45		BRICK ROAD				
								13955			23°17'16.07"	91°19'6.89"	
						45							
346		LOC-235/1	SP+0	0			89						
						44							
347	AP-236	236	SP+0	0	02°20'10"LT					East vobanepur			
								14044			23°17'18.89"	91°19'6.257"	
						42							
348		LOC-236/1	SP+0	0			86						
						44							
349	AP-237	237	SP+0	0	06°36'13"RT					East vobanepur			
								14130			23°17'21.61"	91°19'5.519"	
						42	42						
350	AP-238	238	DP+4	4	17°34'24"RT			14172			23°17'22.98"	91°19'5.326"	
						45			MRD,11KV LINE				
351		LOC-238/1	SP+0	0						East vobanepur			
						45							
352		LOC-238/2	SP+0	0			171						
						45							
353		LOC-238/3	SP+0	0									
						36							
354	AP-239	239	DP+0	0	06°19'06"RT					East vobanepur			
								14343			23°17'28.45"	91°19'6.383"	
						45							
355		LOC-239/1	SP+0	0						East vobanepur			
						45	135						
356		LOC-239/2	SP+0	0									
						45							
357	AP-240	240	DP+0	0	14°04'56"RT			14478		East vobanepur	23°17'32.69"	91°19'7.737"	
						44	44						
358	AP-241	241	DP+0	0	11°46'11"RT			14522			23°17'33.94"	91°19'8.531"	
						40	40						
359	AP-242	242	DP+0	0	26°24'56"RT			14562			23°17'34.89"	91°19'9.47"	
						45							
360		LOC-242/1	SP+0	0			90			East vobanepur			
						45							
361	AP-243	243	SP+4	4	05°36'41"RT			14652			23°17'35.96"	91°19'12.44"	
						42	42		MRD				
362	AP-244	244	DP+4	4	51°26'57"LT			14694		East vobanepur	23°17'36.33"	91°19'13.88"	
						45			BRICK ROAD,11KV LINE				
363		LOC-244/1	SP+0	0									
						45	135						
364		LOC-244/2	SP+0	0									
						45							
365	AP-245	245	DP+4	4	10°32'16"LT			14829			47°37'28.96"	90°42'52.8"	
						40	40		MRD,11KV LINE	East vobanepur			
	246	246	SP+4	4	07°33'15"LT			14869			23°17'41.66"	91°19'16.03"	

TECHNOFAB ENGINEERING LTD. TRIPURA

SUBMITTED BY
Yogesh Kumar Darjee
(Asstt. Manager)
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Udaipur-Tripura

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DETAIL SURVEY

POLE SCHEDULE

PROPOSED 33 KV LINE FROM RAJNAGR TO NIDYA

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						42							
367	AP-247	247	DP+4	4	11°55'24"LT		42		MRD				
						44		14911			23°17'43.02"	91°19'16.16"	
368	AP-248	248	DP+4	4	14°04'40"RT		44		LT LINE	Duluppur			
						45		14955			23°17'44.45"	91°19'15.96"	
369	AP-249	249	SP+0	0	04°42'59"LT		45	15000					
						45				Duluppur	23°17'45.92"	91°19'16.15"	
370		LOC-249/1	SP+0	0									
						45				Duluppur			
371		LOC-249/2	SP+0	0			179						
						45				Duluppur			
372		LOC-249/3	SP+0	0									
						44		15179			23°17'51.74"	91°19'16.4"	
373	AP-250	250	DP+4	4	24°40'47"LT				MRD,11KV LINE				
						42	42	15221		Duluppur	23°17'53.19"	91°19'15.75"	
374	AP-251	251	DP+4	4	21°48'05"RT								
						42	42	15263			23°17'54.56"	91°19'15.73"	
375	AP-252	252	DP+4	4	27°53'50"RT				MRD,LT LINE				
						38	38	15301		Duluppur	23°17'55.67"	91°19'16.35"	
376	AP-253	253	DP+4	4	35°32'16"RT				11KV LINE				
						42	42	15343			23°17'56.3"	91°19'17.68"	
377	AP-254	254	DP+4	4	21°40'29"LT								
						37				Shill tila			
378		LOC-254/1	SP+0	0			75						
						38		15418			23°17'58.14"	91°19'19.41"	
379	AP-255	255	DP+4	0	30°57'30"RT					Shill tila			
						45	45	15463			23°17'58.61"	91°19'20.99"	
380	AP-256	256	DP+4	4	59°08'53"LT				MRD				
						30	30	15493		Shill tila	23°17'59.56"	91°19'21.23"	
381	AP-257	257	DP+4	4	29°57'36"LT								
						35	35	15528			23°18'0.665"	91°19'20.86"	
382	AP-258	258	DP+0	0	33°33'39"LT				NALA				
						44				Shill tila			
383		LOC-258/1	SP+0	0			89						
						45			11KV LINE (2NOS), MRD				
384	AP-259	259	DP+4	4	22°00'56"LT			15617			23°18'2.524"	91°19'18.41"	
						45	45			Shill tila			
385	AP-260	260	DP+0	0	56°35'22"RT			15662			23°18'2.963"	91°19'16.89"	
						41	41						
386	AP-261	261	DP+0	0	35°37'22"RT			15703		Shill tila	23°18'4.259"	91°19'16.49"	
						44							
387		LOC-261/1	SP+0	0			130						
						43				Shill tila			
388		LOC-261/2	SP+0	0									
						43							
389	AP-262	262	DP+0	0	21°17'07"RT			15833			23°18'8.242"	91°19'18.02"	

TECHNO ENGINEERING TRIPURA

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						45	45			Shill tila			
390	AP-263	263	DP+0	0	55°35'36"RT			15878			23°18'9.391"	91°19'19.1"	
						40	40						
391	AP-264	264	DP+0	0	16°04'25"RT			15918			23°18'9.244"	91°19'20.51"	
						45	45			Shill tila			
392	AP-265	265	FP+0	0	68°25'24"LT			15963			23°18'8.674"	91°19'21.99"	
						29	29		MRD				
393	AP-266	266	DP+0	0	35°04'48"LT			15992			23°18'9.524"	91°19'22.4"	
						45	45			Shill tila			
394	AP-267	267	DP+0	0	21°48'05"RT			16037			23°18'10.95"	91°19'22.11"	
						30	60						
395		LOC-267/1	SP+0	0									
						30			NALA	Shill tila			
396	AP-268	268	DP+0	0	23°38'15"RT			16097			23°18'12.87"	91°19'22.5"	
						33	33						
397	AP-269	269	SP+0	0	04°36'16"LT			16130			23°18'13.75"	91°19'23.16"	
						45	45			Shill tila			
398	AP-270	270	DP+0	0	19°39'53"RT			16175			23°18'15.03"	91°19'23.95"	
						39	39		MRD				
399	AP-271	271	SP+0	0	03°58'05"RT			16214		Shill tila	23°18'15.85"	91°19'25"	
						44	44						
400	AP-272	272	DP+0	0	32°37'20"RT			16258			23°18'16.71"	91°19'26.26"	
						43	88						
401		LOC-272/1	SP+0	0									
						45			BRICK ROAD,11KV LINE	Shill tila			
402	AP-273	273	DP+0	0	28°02'54"LT			16346			23°18'16.91"	91°19'29.39"	
						34	65		MRD				
403		LOC-273/1	SP+0	0									
						31			MRD				
404	AP-274	274	DP+0	0	37°25'06"LT			16411			23°18'18.04"	91°19'31.34"	
						44	44						
405	AP-275	275	DP+0	0	23°40'56"RT			16455		Khchigang	23°18'19.37"	91°19'31.89"	
						45	45						
406	AP-276	276	DP+0	0	17°43'57"LT			16500			23°18'20.43"	91°19'33"	
						32	32		FOOT PATH				
407	AP-277	277	DP+0	0	34°04'38"LT			16532		Khchigang	23°18'21.47"	91°19'32.99"	
						41	41		MRD				
408	AP-278	278	DP+4	4	11°27'26"RT			16573			23°18'22.56"	91°19'32.17"	
						39	39		MRD,11KV LINE				
409	AP-279	279	DP+4	4	44°04'03"RT			16612			23°18'23.73"	91°19'31.62"	
						30	30		MRD				
410	AP-280	280	FP+0	0	74°04'47"RT			16642		Khchigang	23°18'24.64"	91°19'32"	
						31	31						
411	AP-281	281	DP+4	4	41°51'16"LT			16673			23°18'24.56"	91°19'33.09"	
						42	42						
412	AP-282	282	SP+0	0	08°08'54"RT			16715			23°18'25.38"	91°19'34.28"	

TECHNOFAB ENGINEERING LTD. TRIPURA

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. IN M.	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
						32	32			Khchigang			
413	AP-283	283	DP+0	0	29°28'50"RT			16747			23°18'25.88"	91°19'35.26"	
						44	44						
414	AP-284	284	DP+0	0	22°20'22"LT			16791			23°18'25.86"	91°19'36.81"	
						42	42						
415	AP-285	285	DP+0	0	35°59'35"LT			16833			23°18'26.37"	91°19'38.17"	
						44	44			Khchigang			
416	AP-286	286	SP+0	0	03°34'24"LT			16877			23°18'27.58"	91°19'39"	
						45	81		MRD				
417		LOC-286/1	SP+0	0									
						36			LT LINE				
418	AP-287	287	DP+4	4	37°55'37"LT			16958			23°18'29.9"	91°19'40.38"	
						40	40		11KV LINE	Khchigang			
419	AP-288	288	SP+4	4	01°12'55"LT			16998			23°18'31.2"	91°19'40.15"	
						39	39		MRD				
420	AP-289	289	SP+0	0	08°42'47"LT			17037		Nidaya	23°18'32.46"	91°19'39.93"	
						44	130						
421		LOC-289/1	SP+0	0									
						45							
422		LOC-289/2	SP+0	0									
						41				Nidaya			
423	AP-290	290	FP+0	0	70°41'35"LT			17167			23°18'36.48"	91°19'38.5"	
						31	31						
424	AP-291	291	SP+0	0	09°18'07"LT			17198		Nidaya	23°18'36.5"	91°19'37.41"	
						32	108						
425		LOC-291/1	SP+0	0									
						42							
426		LOC-291/2	SP+0	0						Nidaya			
						34							
427	AP-292	292	DP+0	0	16°04'12"RT			17306			23°18'36.01"	91°19'33.65"	
						33	33			Nidaya			
428	AP-293	293	FP+0	0	00°00'00"			17339			23°18'36.16"	91°19'32.49"	

Pole schedule with normal pole (+0 mtr) & which are within the permissible limit of angle of deviation and within permissible limit of individual spans are approved.

Put on hold all road crossings spans, powerline crossings, spans, railway line crossings, river crossings etc and span having angle of individual span limit violation.

Details profile to be submitted for the above crossings. M/S TECHNOFAB may be initiated accordingly.

TECHNOFAB ENGINEERING TRIPURA

SUBMITTED BY
TECHNOFAB ENGINEERING Ltd

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LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	CO-ORDINATE		Villa
									Left	Right	Total	Left	Right	Total				NORTHING	EASTING	
1		EXISTING TOWER NO 52	DA+06					27.81		174.3	174.3		191.9	191.9				23°57'44.60"	91°22'44.59"	
					300												LT Line,11KV Line,Metal Road			
2		EXISTING TOWER NO 51	DB+03	15°34'53"			300	26.162	125.7	122.8	248.4	108.1	193.4	301.5	350.0	175.0		23°57'35.10"	91°22'42.90"	
					50															
3	AP 1A	AP-1A/0	DDE+00	90°00'00"		350	350	26.05	-72.8	5.3	-67.5	-143.4	1.9	-141.6	70.0	35.0		23°57'37.70"	91°22'42.09"	
					20															
4	AP 1	AP-1/0	DD+00	21°57'27" L		20	370	26.11	14.7		14.7	18.1		18.1				23°57'33.97"	91°22'41.45"	

FOR EMC LIMITED

FOR PGCIL

Tanmoy

JAYDIP NATH
PROJECT MANAGER
EMC LIMITED

PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation	Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H) Left	Weight Span(H) Right	Weight Span(H) Total	Weight Span(C) Left	Weight Span(C) Right	Weight Span(C) Total	Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	NORTHING	EASTING	Village
1	EXISTING TOWER NO 49	EXISTING TOWER NO 49	DC+06					36.084		209.1	209.1		234.1	234.1				23°57'16.08"	91°22'32.21"	
					349												11KV Line,Metal Road			
2		EXISTING TOWER NO 50	DA+03	00°41'00"			349	31.402	139.9	178.1	318.0	114.9	215.7	330.6	601.0	300.5		23°57'26.40"	91°22'37.90"	
					252												Mud Road			
3	AP 1A	AP-1A/0	DDE+00	90°00'00"		601	601	26.05	73.9	5.3	79.2	36.3	1.9	38.2	272.0	136.0		23°57'37.70"	91°22'42.09"	
					20															
4	AP 1	AP-1/0	DD+00	21°57'27" L		20	621	26.11	14.7		14.7	18.1		18.1				23°57'33.97"	91°22'41.45"	

FOR EMC LIMITED		FOR PGCIL		
Tanmoy	JAYDIP NATH PROJECT MANAGER EMC LIMITED			
PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

LILO OF AGARTALA (79 TILLA) - DHALABIL (KHOWAI)132 KV S/C LINE AT MOHANPUR (HEZAMARA)

Detail RE-Survey Tower Schedule

Sl No.	AP No.	Loc. No.	Type of Tower	Angle of Deviation		Span in Metre	Section Length	Cumu. Dist. (M)	Reduce Level	Weight Span(H)			Weight Span(C)			Sum of Adjacent Span	Wind Span	Crossing Details / Remarks	CO-ORDINATE		Village Name
										Left	Right	Total	Left	Right	Total				NORTHING	EASTING	
1	1A	1A/0	DD+00	90°00'00"					26.05		5.3	5.3		1.9	1.9				23°57'37.70"	91°22'42.09"	
						20															
2	1	1/0	DD+00	21°57'27"	L		20	20	26.11	14.7	146.5	161.2	18.1	116.8	134.9	395.0	197.5		23°57'33.97"	91°22'41.45"	
						375												Mud Road			
3	2	2/0	DC+09	17°53'14"	L		375	395	26.91	228.5	194.8	423.4	258.2	205.6	463.8	735.0	367.5		23°57'33.90"	91°22'28.00"	
						360												LT Line,11KV Line,Metal Road			
4	3	3/0	DD+06	56°3'42"	R		360	755	26.51	165.2	151.8	316.9	154.4	170.4	324.9	612.0	306.0		23°57'32.27"	91°22'15.75"	
						252												11KV Line			
5	4	4/0	DD+00	59°8'54"	R		252	1007	28.374	100.2	39.7	139.9	81.6	12.4	93.9	407.0	203.5		23°57'37.70"	91°22'09.26"	
						155															
6	5	5/0	DDE+00	14°17'18"	R		155	1162	32.105	115.3	72.9	188.2	142.6	103.1	245.7	217.0	108.5		23°57'42.76"	91°22'10.53"	
						62												Rubber Plantation			
7	GAN	GANT	DD+00	07°23'51"	R		62	1224	30.453										23°57'44.51"	91°22'41.45"	

FOR EMC LIMITED		FOR PGCIL		
Tanmay	JAYDIP NATH PROJECT MANAGER EMC LIMITED			
PREPARED BY	SUBMITTED BY	CHECKED BY	RECOMMENDED BY	APPROVED BY

POLE SUMMARY

POLE SUMMARY DETAILS							
TRIPURA STATE ASSOCIATED WITH NER POWER SYSTEM IMPROVEMENT PROJECT (DMS PACKAGE-03)							
TRI-DMS-03 (3604) CC-CS/86-NER/REW-2986/1/G2/NOA-I/7168 & 7169 Date: 22.02.2017							
LINE LINK: EXISTING 33/11 kV MELAGARH S/S TO PROPOSED 33/11 kV NALCHAR S/S							
TOTAL LINE LENGTH: 6.801 km							
S.No.	Type of Pole	Extension	Pole Qty	12 m Pole	14 m Pole	16 m Pole	Remarks
1	SP (GA-01)	0 m	22	22			
2		2 m	6		6		
3		4 m	5			5	
4	SP (GA-02)	0 m	41	41			
5		2 m	3		3		
6		4 m	13			13	
7	DP (GA-03)	0 m	52	104			
8		2 m	3		6		
9		4 m	34			68	
10	FP (GA-04)	0 m	3	12			
11		2 m	0		0		
12		4 m	3			12	
	TOTAL			179	15	98	

SUBMITTED BY:
TechnoFab Engineering Ltd.

CHECKED BY: (AET)
PGCIL

APPROVED BY:
PGCIL

OWNER: T.S.E.C.L
CLIENT: P.G.C.I.L

DETAIL SURVEY POLE SCHEDULE

LINK NAME:
MELAGARH EXISTING 33/11 KV S/S TO NALCHAR S/S

SL.NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (mtr.)	ANGLE OF DEVIATION	SPAN	SECTIONAL LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	GPS CO-ORDINATE(WGS-84) EASTING	REMARKS
1	AP-1	1	FP+0							MELAGHAR S/S	23°30'4.17"	91°20'37.85"	
2	AP-2	2	FP+4	4	90°17'15"LT	31		31	S/S BOUN.LT	MELAGHAR	23°30'4.32"	91°20'36.76"	HOLD
3	AP-3	3	DP+0		15°1'56"RT	32	31	62	LT,11KV CABLE	MELAGHAR	23°30'3.28"	91°20'36.91"	HOLD
4	AP-4	4	FP+4	4	67°9'41"LT	36	36	98	2NOS 11KV	MELAGHAR	23°30'2.11"	91°20'36.75"	HOLD
5	AP-5	5	DP+2	2	13°52'46"RT	31	31	129	MRD,11KV	MELAGHAR	23°30'1.837"	91°20'35.7"	HOLD
6	AP-6	6	SP+0		0°59'12"LT	46	46	175	LT	MELAGHAR	23°30'1.107"	91°20'34.29"	HOLD
7	AP-7	7	DP+4	4	19°1'25"LT	41	41	216	11KV	MELAGHAR	23°30'0.476"	91°20'33.03"	HOLD
8	AP-8	8	FP+4	4	76°19'25"RT	43	43	259	MRD,2NOS 11KV,LT	MELAGHAR	23°29'59.42"	91°20'31.99"	HOLD
9	AP-9	9	DP+0		38°51'46"RT	53	53	312	MRD,2NOS 11KV,LT	MELAGHAR	23°30'0.057"	91°20'30.36"	HOLD
10	AP-10	10	DP+0		11°18'36"LT	31	31	343		MELAGHAR	23°30'0.436"	91°20'29.3"	
11	AP-11	11	DP+4	4	37°18'14"RT	38	38	381		MELAGHAR	23°30'0.422"	91°20'27.96"	
12	AP-12	12	SP+0		3°11'22"LT	26	26	407	2on 11kv, LT,MRD	MELAGHAR	23°29'59.89"	91°20'27.22"	HOLD
13	AP-13	13	DP+0		13°5'17"RT	37	37	444		MELAGHAR	23°30'2.108"	91°20'36.75"	
14	AP-14	14	DP+0		13°30'45"LT	37	37	481		MELAGHAR	23°30'3.28"	91°20'36.91"	
15	AP-15	15	SP+0		0°24'55"LT	29	29	510		MELAGHAR	23°29'57.78"	91°20'24.43"	
16	AP-16	16	SP+0		6°1'10"LT	38	38	548		MELAGHAR	23°29'57.08"	91°20'23.31"	
17	AP-17	17	DP+4	4	59°59'26"RT	37	37	585			23°29'56.52"	91°20'22.16"	
18	AP-18	18	DP+0		21°25'38"RT	17	17	602	MRD,2 nos 11kv	MELAGHAR BOC	23°29'56.81"	91°20'21.66"	HOLD
19	AP-19	19	DP+0		35°50'16"RT	22	22	624		MELAGHAR BOC	23°29'57.39"	91°20'21.19"	
20		19/1	SP+0			41	82			MELAGHAR BOC			
21	AP-20	20	SP+0		6°42'35"LT	41		706		MELAGHAR BOC	23°30'0.024"	91°20'21.16"	
22	AP-21	21	DP+4	4	25°45'41"LT	34	34	740	11 KV LINE	MELAGHAR BOC	23°30'1.126"	91°20'21"	HOLD
23	AP-22	22	SP+0		7°47'40"RT	26	26	766	SH-6 LT Line, 11 KV	MELAGHAR BOC	23°30'1.838"	91°20'20.5"	HOLD
24	AP-23	23	SP+4	4	4°34'19"LT	41	41	807		MELAGHAR BOC	23°30'3.034"	91°20'19.89"	
25	AP-24	24	DP+0		31°27'35"LT	29	29	836	SH-6, LT Line, 11 KV	MELAGHAR BOC	23°30'3.841"	91°20'19.38"	HOLD
26	AP-25	25	SP+2	2	8°2'27"LT	47	47	883			23°30'4.573"	91°20'17.93"	HOLD
27	AP-26	26	SP+0		5°53'57"RT	39	39	921	LT LINE		23°30'5.015"	91°20'16.66"	HOLD
28	AP-27	27	DP+2	2	34°6'38"RT	44	44	965			23°30'5.65"	91°20'15.27"	
29	AP-28	28	SP+0		8°56'27"RT	35	35	1000	LT Line		23°30'6.651"	91°20'14.66"	HOLD
30	AP-29	29	SP+2	2	5°28'44"LT	27	27	1027			23°30'7.461"	91°20'14.33"	
31	AP-30	30	DP+0		20°38'32"RT	40	40	1067	Road,11KV		23°30'8.624"	91°20'13.72"	HOLD
32	AP-31	31	DP+0		23°39'55"LT	37	37	1104	LT LINE		23°30'9.826"	91°20'13.6"	HOLD
33	AP-32	32	DP+4	4	30°54'12"RT	30	36	1133	SH-6, LT Line, 11 KV		23°30'10.66"	91°20'13.1"	HOLD
34	AP-33	33	SP+0		3°52'50"RT	44	44	1177	LT Line, Road	BOIRAGI BAZER	23°30'12.09"	91°20'13.15"	HOLD
35	AP-34	34	SP+0		2°15'47"RT	44	44	1222		BOIRAGI BAZER	23°30'13.52"	91°20'13.31"	
36	AP-35	35	SP+0		6°16'20"RT	39	39	1261		BOIRAGI BAZER	23°30'14.79"	91°20'13.5"	
37	AP-36	36	SP+4	4	7°30'8"RT	42	42	1304	11KV,LT Line	BOIRAGI BAZER	23°30'16.13"	91°20'13.87"	HOLD
38	AP-37	37	DP+0		12°41'49"RT	44	44	1348		BOIRAGI BAZER	23°30'17.47"	91°20'14.45"	
39	AP-38	38	SP+0		7°48'27"RT	42	42	1390	Road	BOIRAGI BAZER	23°30'18.58"	91°20'15.29"	HOLD
40	AP-39	39	SP+4	4	2°53'4"RT	41	41	1431	11KV, LT Line	BOIRAGI BAZER	23°30'19.57"	91°20'16.26"	HOLD
41	AP-40	40	DP+0		23°5'11"RT	45	45	1475		BOIRAGI BAZER	23°30'20.59"	91°20'17.38"	
42	AP-41	41	DP+0		13°5'39"RT	42	42	1517		BOIRAGI BAZER	23°30'21.09"	91°20'18.75"	
43	AP-42	42	SP+0		6°31'37"LT	43	43	1560		BOIRAGI BAZER	23°30'21.3"	91°20'20.26"	
44	AP-43	43	SP+0		6°34'2"LT	32	32	1592		BOIRAGI BAZER	23°30'21.58"	91°20'21.35"	
45	AP-44	44	DP+0		19°58'18"LT	28	28	1620		BOIRAGI BAZER	23°30'21.91"	91°20'22.26"	
46	AP-45	45	SP+2	2	7°21'27"RT	30	30	1651	LT Line	BOIRAGI BAZER	23°30'22.57"	91°20'23.06"	HOLD
47	AP-46	46	SP+0		9°28'52"LT	36	36	1687	LT Line	BOIRAGI BAZER	23°30'23.46"	91°20'23.9"	HOLD
48	AP-47	47	SP+0		5°0'9"LT	41	41	1728		BOIRAGI BAZER	23°30'24.6"	91°20'24.66"	
49	AP-48	48	SP+0		0°44'51"RT	44	44	1772		BOIRAGI BAZER	23°30'25.88"	91°20'25.35"	
50	AP-49	49	SP+0		9°45'1"RT	38	38	1811		BOIRAGI BAZER	23°30'26.99"	91°20'25.97"	
51	AP-50	50	SP+4	4	7°21'9"RT	44	44	1855	Road	BOIRAGI BAZER	23°30'28.14"	91°20'26.93"	HOLD
						37	37		2 Nos. 11KV				HOLD

TECHNOFAB ENGINEERING LIMITED TRIPURA

SUBMITTED BY
TECHNOFAB ENGINEERING LTD

CHECKED BY
P.G.C.I.L.
12/08/17 (AET)

APPROVED BY
P.G.C.I.L.

एम.के.नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे., उदयपुर / NER, UDAIPUR

OWNER: T.S.E.C.L
CLIENT: P.G.C.I.L

DETAIL SURVEY POLE SCHEDULE

LINK NAME:
MELAGARH EXISTING 33/11 KV S/S TO NALCHAR S/S

52	AP-51	51	SP+0		5°0'47"RT	40	40	1892		BOIRAGI BAZER	23°30'28.99"	91°20'27.81"		
53	AP-52	52	DP+0		16°56'5"LT	31	31	1932		BOIRAGI BAZER	23°30'29.85"	91°20'28.89"		
54	AP-53	53	SP+0		5°21'6"RT	35	70	1963		BOIRAGI BAZER	23°30'30.7"	91°20'29.48"		
55		53/1	SP+0			35			LT Line	BOIRAGI BAZER				HOLD
56	AP-54	54	DP+4	4	21°29'17"RT	30	30	2033	SH-6, 11KV	BOIRAGI BAZER	23°30'32.47"	91°20'30.98"		HOLD
57	AP-55	55	DP+0		28°41'23"LT	40	80	2063		BOIRAGI BAZER	23°30'32.97"	91°20'31.89"		
58		55/1	SP+0			40								
59	AP-56	56	SP+0		3°15'49"RT	35	35	2143			23°30'35.23"	91°20'33.34"		
60	AP-57	57	DP+0		35°5'4"RT	29	29	2178			23°30'36.18"	91°20'34.03"		HOLD
61	AP-58	58	DP+4	4	28°45'45"LT	20	20	2207	LT Line	boiragipara	23°30'36.51"	91°20'34.98"		HOLD
62	AP-59	59	DP+0		43°38'43"RT	42	42	2227	SH-6,MRD, 2 Nos LT Line, 11 KV	boiragipara	23°30'37"	91°20'35.43"		HOLD
63	AP-60	60	SP+0		8°50'24"RT	36	202	2269	Road	boiragipara	23°30'37.15"	91°20'36.91"		HOLD
64		60/1	SP+0			42				boiragipara				
65		60/2	SP+2	2		40			LT	boiragipara				HOLD
66		60/3	SP+0			42				boiragipara				
67		60/4	SP+0			42				boiragipara				
68	AP-61	61	DP+0		13°19'33"LT	41	41	2471		boiragipara	23°30'36.84"	91°20'44.03"		
69	AP-62	62	DP+2	2	10°47'58"LT	40	40	2512	LT Line	boiragipara	23°30'37.08"	91°20'45.44"		HOLD
70	AP-63	63	SP+4	4	5°50'22"LT	31	31	2551		boiragipara	23°30'37.55"	91°20'46.74"		
71	AP-64	64	SP+0		0°36'58"LT	42	42	2583	SH-6, LT Line, 11 KV	boiragipara	23°30'38.01"	91°20'47.72"		HOLD
72	AP-65	65	SP+0		0°34'39"LT	43	43	2624		boiragipara	23°30'38.64"	91°20'49.02"		
73	AP-66	66	DP+0		14°30'55"LT	30	30	2667	1 Nos Cable Crossing	boiragipara	23°30'39.31"	91°20'50.35"		HOLD
74	AP-67	67	DP+0		24°47'39"LT	28	28	2697		boiragipara	23°30'39.97"	91°20'51.12"		
75	AP-68	68	DP+4	4	13°50'31"LT	25	25	2725	SH6 LT Line, 11 KV	boiragipara	23°30'40.82"	91°20'51.49"		HOLD
76	AP-69	69	SP+4	4	5°26'39"RT	28	28	2750	LT Line, 11KV	boiragipara	23°30'41.63"	91°20'51.62"		HOLD
77	AP-70	70	DP+0		40°2'35"LT	39	39	2778	SH-6, LT Line	boiragipara	23°30'42.51"	91°20'51.86"		HOLD
78	AP-71	71	SP+0		2°38'17"LT	41	41	2817		boiragipara	23°30'43.54"	91°20'51.07"		
79	AP-72	72	DP+0		11°26'12"RT	30	30	2859		boiragipara	23°30'44.61"	91°20'50.18"		
80	AP-73	73	DP+4	4	23°6'27"RT	22	22	2888		boiragipara	23°30'45.48"	91°20'49.71"		
81	AP-74	74	DP+0		50°43'29"RT	39	39	2911	SH-6, LT Line, 11 KV	boiragipara	23°30'46.19"	91°20'49.66"		HOLD
82	AP-75	75	DP+0		16°36'1"RT	40	40	2949		boiragipara	23°30'47.05"	91°20'50.68"		
83	AP-76	76	SP+0		9°19'56"RT	47	93	2989		boiragipara	23°30'47.62"	91°20'51.94"		
84		76/1	SP+0			48				boiragipara				HOLD
85	AP-77	77	SP+0		7°48'15"LT	27	27	3084		boiragipara				HOLD
86	AP-78	78	DP+0		12°5'17"LT	22	22	3112		boiragipara	23°30'48.49"	91°20'55.13"		
87	AP-79	79	DP+4	4	42°5'19"LT	20	20	3134	SH-6, LT Line, 11 KV	boiragipara	23°30'48.86"	91°20'56.01"		HOLD
88	AP-80	80	DP+0		37°5'30"LT	38	38	3154	VRD	boiragipara	23°30'49.29'	91°20'56.64"		HOLD
89	AP-81	81	DP+4	4	26°2'33"LT	33	66	3192	2 Nos 11KV	boiragipara	23°30'49.94"	91°20'56.77"		HOLD
90		81/1	SP+0			33				boiragipara	23°30'51.04"	91°20'56.16"		HOLD
91	AP-82	82	SP+0		7°57'27"RT	30	30	3258		boiragipara				
92	AP-83	83	DP+0		45°0'0"RT	25	25	3288		boiragipara	23°30'52.32"	91°20'54.28"		
93	AP-84	84	SP+0		3°16'14"RT	35	35	3313		boiragipara	23°30'53"	91°20'53.53"		
94	AP-85	85	DP+0		16°51'57"RT	32	32	3348		boiragipara	23°30'53.81"	91°20'53.52"		
95	AP-86	86	SP+0		2°58'27"RT	55	171	3380		boiragipara	23°30'54.95"	91°20'53.57"		
96		86/1	SP+4	4		42				boiragipara	23°30'55.93"	91°20'53.99"		HOLD
97		86/2	SP+2	2		32			LT Line	boiragipara				HOLD
98		86/3	SP+0			42			11 KV,LT Line	boiragipara				HOLD
99	AP-87	87	DP+0		13°38'53"LT	49	49	3551	VRD	boiragipara				HOLD
100	AP-88	88	DP+4	4	32°24'56"RT	39	78	3600	LT Line	boiragipara	23°31'1.059"	91°20'56.25"		HOLD
101		88/1	SP+0			39					23°31'2.623"	91°20'56.51"		
102	AP-89	89	DP+0		20°37'39"LT	19	19	3678						
103	AP-90	90	SP+4	4	5°59'43"LT	34	34	3697	SH6,11KV		23°31'4.527"	91°20'58.32"		HOLD
104	AP-91	91	SP+0		2°52'28"LT	42		3731			23°31'5.115"	91°20'58.56"		
										south nalchar	23°31'6.192"	91°20'58.86"		

TECHNOFAB ENGINEERING LTD. TRIPURA (INDIA)

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TECHNOFAB ENGINEERING LTD

CHECKED BY
P.G.C.I.L.

18/09/17

APPROVED BY
P.G.C.I.L.

एम के नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे., उदयपुर / NER, UDAIPUR

OWNER: T.S.E.C.L
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DETAIL SURVEY POLE SCHEDULE

LINK NAME:
MELAGARH EXISTING 33/11 KV S/S TO NALCHAR S/S

105		91/1	SP+0			84				south nalchar				
106	AP-92	92	SP+0		2°35'54"LT	42		3815		south nalchar	23°31'8.863"	91°20'59.46"		
107	AP-93	93	DP+0		36°41'11"RT	29	29	3845		south nalchar	23°31'9.808"	91°20'59.63"		
108	AP-94	94	DP+4	4	23°50'22"LT	28	28	3872		south nalchar	23°31'10.43"	91°21'0.33"		
109	AP-95	95	DP+4	4	19°38'18"LT	35	35	3907	SH-6, 11KV	south nalchar	23°31'11.47"	91°21'0.811"		HOLD
110	AP-96	96	SP+0		1°20'54"LT	43	43	3950	LT Line	south nalchar	23°31'12.87"	91°21'0.899"		HOLD
111		96/1	SP+2	2		40				south nalchar				
112		96/2	SP+2	2		45	130		LT Line	south nalchar				HOLD
113	AP-97	97	SP+0		0°19'16"LT	45		4080		south nalchar	23°31'17.1"	91°21'1.058"		
114		97/1	SP+0			35	74		Cable Line	south nalchar				HOLD
115	AP-98	98	DP+4	4	18°14'4"RT	39		4154	Road, LT Line,Cable line	south nalchar	23°31'19.51"	91°21'1.134"		HOLD
116	AP-99	99	DP+4	4	19°48'4"RT	34	34	4188		south nalchar	23°31'20.55"	91°21'1.544"		HOLD
117		99/1	SP+4	4		37	74		LT Line, 11KV	south nalchar				
118	AP-100	100	DP+4	4	19°40'4"LT	37		4262		south nalchar	23°31'22.65"	91°21'2.893"		
119	AP-101	101	SP+4	4	9°40'54"RT	30	30	4292	SH-6 LT Line, 11 KV	south nalchar	23°31'23.59"	91°21'3.092"		HOLD
120		101/1	SP+4	4		37	74		LT Line, 11 KV	south nalchar				HOLD
121	AP-102	102	SP+4	4	0°25'51"RT	37		4356	Road	south nalchar	23°31'25.84"	91°21'4.016"		HOLD
122	AP-103	103	DP+0		22°19'2"RT	27	27	4393	LT Line	south nalchar	23°31'26.66"	91°21'4.359"		HOLD
123	AP-104	104	DP+0		35°43'24"RT	46	46	4439		south nalchar	23°31'27.75"	91°21'5.473"		HOLD
124	AP-105	105	DP+4	4	20°27'16"LT	28	28	4467	SH-6, 11 KV	south nalchar	23°31'27.92"	91°21'6.458"		HOLD
125		105/1	SP+4	4		35	77			south nalchar				
126	AP-106	106	DP+0		16°9'23"LT	42		4544	11 KV	Nalachar bazer	23°31'29.21"	91°21'8.769"		HOLD
127	AP-107	107	DP+0		15°26'25"LT	47	47	4591		Nalachar bazer	23°31'30.33"	91°21'9.883"		HOLD
128	AP-108	108	DP+4	4	25°5'52"LT	42	41	4632	BRICK RD	Nalachar bazer	23°31'31.5"	91°21'10.53"		HOLD
129	AP-109	109	DP+4	4	43°12'46"RT	21	21	4653	SH-6, LT Line, 11 KV	Nalachar bazer	23°31'32.19"	91°21'10.56"		HOLD
130	AP-110	110	DP+0		12°37'52"RT	43	43	4696		Nalachar bazer	23°31'33.17"	91°21'11.64"		
131	AP-111	111	DP+4	4	20°48'36"RT	42	42	4738	11 KV	Nalachar bazer	23°31'33.9"	91°21'12.9"		HOLD
132	AP-112	112	DP+4	4	37°37'12"LT	33	33	4771	SH-6, LT Line	Nalachar bazer	23°31'34.11"	91°21'14.03"		HOLD
133	AP-113	113	DP+0		32°35'53"RT	38	38	4808	3 Nos. Cable Crossing	Nalachar bazer	23°31'35.03"	91°21'14.9"		HOLD
134	AP-114	114	DP+0		15°44'33"LT	31	31	4840		Nalachar bazer	23°31'36.04"	91°21'15.06"		
135	AP-115	115	SP+4	4	6°52'57"RT	31	31	4870	2 Nos. LT Line	Nalachar bazer	23°31'36.95"	91°21'15.51"		HOLD
136		115/1	SP+0			30	84		3 Nos. Cable Crossing	Nalachar bazer				
137	AP-116	116	DP+4	4	9°57'15"LT	54		4954	LT Line	Nalachar bazer	23°31'39.28"	91°21'17.03"		HOLD
138	AP-117	117	DP+4	4	29°10'26"RT	29	29	4984	SH6, LT Line, 11 KV, Cable Line	Nalachar bazer	23°31'40.16"	91°21'17.41"		
139	AP-118	118	SP+0		4°53'1"LT	45	45	5028	LT Line	Nalachar bazer	23°31'41.08"	91°21'18.63"		
140	AP-119	119	SP+0		0°56'11"RT	45	45	5074		Nalachar bazer	23°31'42.1"	91°21'19.78"		
141	AP-120	120	DP+4	4	22°19'7"LT	30	30	5103	SH6, LT Line, 11 KV	Nalachar bazer	23°31'42.76"	91°21'20.55"		HOLD
142	AP-121	121	DP+0		25°29'54"RT	44	44	5148		Nalachar bazer	23°31'44.07"	91°21'21.2"		
143	AP-122	122	SP+0		6°56'52"LT	41	41	5189		Nalachar bazer	23°31'44.93"	91°21'22.32"		
144	AP-123	123	DP+0		11°14'39"LT	39	39	5228		ASHRAM CHOWMANI	23°31'45.65"	91°21'23.26"		
145		123/1	SP+2	2		43			Road, LT Line	ASHRAM CHOWMANI				HOLD
146		123/2	SP+0	0		39	163		Cable Crossing	ASHRAM CHOWMANI				HOLD
147		123/3	SP+2	2		42			Road, LT Line	ASHRAM CHOWMANI				HOLD
148	AP-124	124	DP+0		12°0'29"LT	39		5391		ASHRAM CHOWMANI	23°31'50.33"	91°21'26.31"		
149	AP-125	125	SP+4	4	5°25'43"RT	43	43	5433	LT Line	ASHRAM CHOWMANI	23°31'51.64"	91°21'26.82"		HOLD
150		125/1	SP+0			42			LT Line Cable	ASHRAM CHOWMANI				HOLD
151		125/2	SP+0			45	132		LT Line	ASHRAM CHOWMANI				HOLD
152	AP-126	126	DP+0		19°48'51"LT	45		5565	LT Line	ASHRAM CHOWMANI	23°31'55.53"	91°21'28.82"		HOLD
						37	37							

TECHNOFAB ENGINEERING LIMITED TRIPURA

SUBMITTED BY
TECHNOFAB ENGINEERING LTD

CHECKED BY
P.G.C.I.L

18/09/17

APPROVED BY
P.G.C.I.L

एम.के.नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे. ,उदयपुर / NER, UDAIPUR

OWNER: T.S.F.C.L
CLIENT: P.G.C.I.L.

DETAIL SURVEY POLE SCHEDULE

LINK NAME:
MELAGARH EXISTING 33/11 KV S/S TO NALCHAR S/S

153	AP-127	127	DP+4	4	21°52'47"LT			5603		ASHRAM CHOWMANI	23°31'56.73"	91°21'28.94"		HOLD
						41	41		SH-6, 11KV					
154	AP-128	128	DP+4	4	13°44'23"RT			5644		ASHRAM CHOWMANI	23°31'58.05"	91°21'28.54"		HOLD
						42			MRD 2NOS11KV					
155		128/1	SP+2				70			ASHRAM CHOWMANI				
						28			LT					HOLD
156	AP-129	129	DP+0		30°59'40"RT			5714		ASHRAM CHOWMANI	23°32'0.307"	91°21'28.44"		
						22	22		SH6 2NOS11KV					HOLD
157	AP-130	130	DP+4	4	52°44'35"LT			5736		ASHRAM CHOWMANI	23°32'0.83"	91°21'28.75"		
						42	42		Road					HOLD
158	AP-131	131	DP+0		14°13'22"RT			5778		ASHRAM CHOWMANI	23°32'2.027"	91°21'28.17"		
						31	31							
159	AP-132	132	DP+0		33°20'53"LT			5810		ASHRAM CHOWMANI	23°32'3.033"	91°21'27.98"		
						49	49		Nala					HOLD
160	AP-133	133	SP+0		4°38'8"RT			5858		ASHRAM CHOWMANI	23°32'4.191"	91°21'26.8"		
						34	34		Road, 2 Nos Cable Line					HOLD
161	AP-134	134	SP+0		5°24'14"RT			5893		ASHRAM CHOWMANI	23°32'5.06"	91°21'26.05"		
						26	26		2 Nos LT Line					HOLD
162	AP-135	135	DP+4	4	12°22'33"RT			5919		nalchar	23°32'5.77"	91°21'25.55"		
						44	44		Road, LT Line					HOLD
163	AP-136	136	DP+4	4	21°38'36"RT			5962		nalchar	23°32'7.057"	91°21'25.01"		
						37	37		LT Line					HOLD
164	AP-137	137	DP+4	4	25°30'38"LT			5999		nalchar	23°32'8.3"	91°21'25.03"		
						30	30		SH6					HOLD
165	AP-138	138	DP+4	4	18°31'20"RT			6029		nalchar	23°32'9.174"	91°21'24.59"		
						42				nalchar				
166		138/1	SP+4	4										
						42	126		11 KV					HOLD
167		138/2	SP+0							nalchar				
						42								
168	AP-139	139	DP+0		0°16'13"LT			6155		nalchar	23°32'13.26"	91°21'24.12"		
						40	40		132KV S/C					HOLD
169	AP-140	140	DP+0		0°14'16"RT			6195		nalchar	23°32'14.56"	91°21'23.96"		
						42				nalchar				
170		140/1	SP+0											
						42				nalchar				
171		140/2	SP+0				108							
						42				nalchar				
172		140/3	SP+0											
						42				nalchar				
173	AP-141	141	SP+0		7°4'6"LT			6363		nalchar	23°32'19.98"	91°21'23.33"		
						46	46		2 Nos GAS Line, 11 KV					
174	AP-142	142	SP+4	4	38°48'7"LT			6409		nalchar	23°32'21.44"	91°21'22.96"		
						44	44		LT Line					
175	AP-143	143	DP+0		38°48'7"RT			6453		nalchar	23°32'22.83"	91°21'22.59"		HOLD
						30	30		SH-6, LT Line					
176	AP-144	144	DP+4	4	47°52'35"LT			6483		nalchar	23°32'23.72"	91°21'23.04"		
						29	29		SH-6, 2 Nos LT Line					
177	AP-145	145	DP+0		31°45'34"RT			6512		nalchar	23°32'24.59"	91°21'22.64"		
						36	72							
178		145/1	SP+0							nalchar				
						36								
179	AP-146	146	DP+0		14°58'27"RT			6584		nalchar	23°32'26.9"	91°21'23.03"		
						38	38		LT Line					HOLD
180	AP-147	147	DP+4	4	15°49'16"LT			6623		nalchar	23°32'28.05"	91°21'23.58"		
						39	39		LT Line					HOLD
181	AP-148	148	DP+0		18°28'25"LT			6662		nalchar	23°32'28.99"	91°21'23.78"		
						36	36							
182	AP-149	149	SP+0		9°9'31"LT			6698		nalchar	23°32'30.45"	91°21'23.55"		
						40	40							
183	AP-150	150	SP+4	4	8°6'6"RT			6738		nalchar	23°32'31.68"	91°21'23.08"		
						43	43		Brick Road,LT Line					HOLD
184	AP-151	151	FP+0		70°19'8"RT			6781		nalchar	23°32'33.04"	91°21'22.78"		
						20	20		SH-6					HOLD
185	AP-152	152	FP+0		90°0'0"0			6801		NALCHAR S/S	23°32'33.38"	91°21'23.37"		

TECHNOFAB ENGINEERING LIMITED TRIPURA

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P.G.C.I.L.

POLE SUMMARY

POLE SUMMARY DETAILS							
TRIPURA STATE ASSOCIATED WITH NER POWER SYSTEM IMPROVEMENT PROJECT (DMS PACKAGE-03)							
TRI-DMS-03 (3604) CC-CS/86-NER/REW-2986/1/G2/NOA-I/7168 & 7169 Date: 22.02.2017							
LINE LINK: EXISTING 33/11 kV BISHRAMGANJ S/S TO PROPOSED 33/11 kV NALCHAR S/S							
TOTAL LINE LENGTH: 9.144 km							
S.No.	Type of Pole	Extension	Pole Qty	12 m Pole	14 m Pole	16 m Pole	Remarks
1	SP (GA-01)	0 m	80	80			
2		2 m	0		0		
3		4 m	16			16	
4	SP (GA-02)	0 m	29	29			
5		2 m	0		0		
6		4 m	12			12	
7	DP (GA-03)	0 m	88	176			
8		2 m	2		4		
9		4 m	33			66	
10	FP (GA-04)	0 m	8	32			
11		2 m	0		0		
12		4 m	2			8	
	TOTAL			317	4	102	

NOFAB ENGINEERING LIMITED TRIPURA

SUBMITTED BY:
TechnoFab Engineering Ltd.

Raju Sinha
फील्ड सुपरवाईजर / FIELD SUPERVISOR
पावर ग्रिड / POWER GRID
CHECKED BY:
PGCIL

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APPROVED BY:
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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
1	BAY	BAY	FP+0		00°00'00"						23°35'57.74"	91°20'26.54"	
						27	27						
2	AP-1	1	DP+0		29°10'03"RT			27		BISHRAMGANJ	23°35'58.59"	91°20'26.85"	
						31			ROAD				
3	AP-2	2	DP+0		21°42'07"RT		73	100	11 KV LINE	BISHRAMGANJ	23°35'59.28"	91°20'27.65"	Hold
						42							
4	AP-3	3	SP+4	4	01°33'11"LT			132		BISHRAMGANJ	23°35'59.75"	91°20'29.02"	
						32	32						
5	AP-4	4	DP+0		01°55'28"LT					BISHRAMGANJ	23°36'0.187"	91°20'30.07"	
						36			LT LINE				
6		LOC-4/1	SP+4	4			69	201		BISHRAMGANJ			
						33			ROAD, LT LINE				
7	AP-5	5	DP+4	4	10°52'45"LT					BISHRAMGANJ	23°36'1.636"	91°20'31.89"	Hold
						40	40		LT LINE				
8	AP-6	6	SP+0		01°21'07"RT			241		BISHRAMGANJ	23°36'2.653"	91°20'32.76"	
						34	34		RAILWAY LINE				
9	AP-7	7	DP+0		31°56'41"RT			275		BISHRAMGANJ	23°36'3.507"	91°20'33.52"	
						29	29						
10	AP-8	8	DP+0		29°54'49"RT			304		BISHRAMGANJ	23°36'3.81"	91°20'34.51"	
						29	29		ROAD				Hold
11	AP-9	9	DP+0		25°05'22"RT			333		BISHRAMGANJ	23°36'3.625"	91°20'35.5"	
						27	27						
12	AP-10	10	DP+0		16°45'01"LT			360		BISHRAMGANJ	23°36'3.83"	91°20'36.41"	
						24	24						
13	AP-11	11	SP+0		05°31'27"RT			384		BISHRAMGANJ	23°36'4.228"	91°20'37.15"	
						40	40						
14	AP-12	12	DP+0		11°40'12"RT			424		BISHRAMGANJ	23°36'4.762"	91°20'38.41"	
						45							
15		LOC-12/1	SP+0							BISHRAMGANJ			
						45	132						
16		LOC-12/2	SP+0							BISHRAMGANJ			Hold
						42			LT LINE				
17	AP-13	13	DP+4	4	28°21'49"LT			556		BISHRAMGANJ	23°36'5.753"	91°20'42.95"	Hold
						20	20		VRD				
18	AP-14	14	DP+0		23°47'03"LT			576		BISHRAMGANJ	23°36'6.181"	91°20'43.47"	
						41							
19		LOC-14/1	SP+0							BISHRAMGANJ			
						40	121						
20		LOC-14/2	SP+0							BISHRAMGANJ			
						40							
21	AP-15	15	DP+0		11°06'10"LT			697		BISHRAMGANJ	23°36'9.776"	91°20'45.26"	
						43							
22		LOC-15/1	SP+0				85			BISHRAMGANJ			
						42							
23	AP-16	16	DP+0		14°11'55"LT			782		BISHRAMGANJ	23°36'12.48"	91°20'45.97"	Hold
						19	19		ROAD				
24	AP-17	17	DP+0		27°33'10"RT			801		BISHRAMGANJ	23°36'13.1"	91°20'45.96"	
						26	26						
25	AP-18	18	SP+0		01°26'27"LT			827		BISHRAMGANJ	23°36'13.81"	91°20'46.38"	
						27	27						
26	AP-19	19	SP+0		02°53'54"LT			854		BISHRAMGANJ	23°36'14.63"	91°20'46.79"	
						24	24		CABLE				
27	AP-20	20	DP+4	4	14°00'35"RT			878		BISHRAMGANJ	23°36'15.35"	91°20'47.13"	
						42	42		3NOS LT LINE				
28	AP-21	21	DP+4	4	18°48'40"RT			920		BISHRAMGANJ	23°36'16.47"	91°20'48.07"	
						33	33		ROAD, 11 KV, LT LINE				Hold
29	AP-22	22	SP+4	4	03°55'28"RT			953		BISHRAMGANJ	23°36'17.06"	91°20'49.05"	
						23	23						
30	AP-23	23	DP+0		09°34'48"RT			976		BISHRAMGANJ	23°36'17.43"	91°20'49.75"	
						45	45						
31	AP-24	24	DP+0		22°24'10"LT			1021		BISHRAMGANJ	23°36'17.93"	91°20'51.26"	
						36	36						
32	AP-25	25	DP+4	4	11°29'48"LT			1057		BISHRAMGANJ	23°36'18.72"	91°20'52.21"	
						20	20		11 KV LINE				
33	AP-26	26	FP+4	4	58°19'28"RT			1077		BISHRAMGANJ	23°36'19.25"	91°20'52.62"	
						22	22		ROAD, 2NOS 11 KV LINE				
34	AP-27	27	DP+4	4	20°07'33"LT			1099		BISHRAMGANJ	23°36'19.19"	91°20'53.4"	Hold
						16	16		66 KV LINE				
35	AP-28	28	FP+0		75°11'12"RT			1115		BISHRAMGANJ	23°36'19.32"	91°20'53.93"	
						24	24						
36	AP-29	29	SP+0		02°52'28"LT			1139		BISHRAMGANJ	23°36'18.65"	91°20'54.36"	
						30	30						
37	AP-30	30	SP+0		01°35'47"LT			1169		BISHRAMGANJ	23°36'17.84"	91°20'54.93"	
						30	30						
38	AP-31	31	DP+4	4	10°47'03"LT			1199		BISHRAMGANJ	23°36'17.03"	91°20'55.54"	
						21	21		VRD, LT LINE				
39	AP-32	32	DP+0		08°26'05"RT			1220		BISHRAMGANJ	23°36'16.55"	91°20'56.08"	Hold
						27	27		ROAD				
40	AP-33	33	SP+0		01°02'59"LT			1247		BISHRAMGANJ	23°36'15.84"	91°20'56.65"	
						30							

TECHNOFAB ENGINEERING LIMITED TRIPURA

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Raju Singh
फील्ड सुपरवाईजर / FIELD SUPERVISOR
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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	GPS CO-ORDINATE(WGS-84) EASTING	REMARKS
41		LOC-33/1	SP+0			30	60		BRICK ROAD	BISHRAMGANJ			
42	AP-34	34	DP+4	4	18°31'17"RT			1307	LT LINE	BISHRAMGANJ	23°36'14.39"	91°20'57.9"	
43	AP-35	35	DP+4	4	27°31'14"RT	28	28	1335	ROAD, 11 KV, LT LINE	BISHRAMGANJ	23°36'13.55"	91°20'58.23"	
44	AP-36	36	DP+4	4	11°07'39"LT	27	27	1362		BISHRAMGANJ	23°36'12.67"	91°20'58.1"	
45		LOC-36/1	SP+0			36				BISHRAMGANJ			
46		LOC-36/2	SP+0			35	106			BISHRAMGANJ			
47	AP-37	37	DP+0		16°44'13"RT	35		1468		BISHRAMGANJ	23°36'9.233"	91°20'58.32"	
48	AP-38	38	DP+0		14°44'37"RT	25	25	1493		BISHRAMGANJ	23°36'8.45"	91°20'58.12"	
49		LOC-38/1	SP+0			41	81			BISHRAMGANJ			
50	AP-39	39	DP+0		03°13'11"LT	40		1574		BISHRAMGANJ	23°36'6.128"	91°20'56.77"	
51	AP-40	40	DP+0		01°00'18"RT	25	25	1599	LT LINE	BISHRAMGANJ	23°36'5.376"	91°20'56.39"	
52		LOC-40/1	SP+4	4		42	83		VRD	BISHRAMGANJ			
53	AP-41	41	DP+0		02°36'09"LT	41		1682		BISHRAMGANJ	23°36'2.957"	91°20'55.12"	
54		LOC-41/1	SP+0			35	100			BISHRAMGANJ			
55		LOC-41/2	SP+4	4		35				BISHRAMGANJ			
56	AP-42	42	DP+0		08°56'34"RT	30		1782	LT LINE	BISHRAMGANJ	23°36'0.017"	91°20'53.74"	
57	AP-43	43	FP+0		31°10'10"LT	40	40	1822		BISHRAMGANJ	23°35'58.9"	91°20'52.98"	
58	AP-44	44	FP+0		23°15'03"RT	33	33	1855	RAILWAY LINE		23°35'57.83"	91°20'52.96"	
59		LOC-44/1	SP+0			40	115						
60		LOC-44/2	SP+4	4		35			LT LINE				
61	AP-45	45	DP+4	4	04°29'22"RT	40		1970		PADHMA NAGAR	23°35'54.46"	91°20'51.31"	
62	AP-46	46	DP+0		03°50'06"LT	26	26	1996	11 KV, LT LINE	PADHMA NAGAR	23°35'53.71"	91°20'50.86"	
63	AP-47	47	DP+0		14°25'55"RT	28	28	2024		PADHMA NAGAR	23°35'52.89"	91°20'50.45"	
64		LOC-47/1	SP+0			41	82		VRD	PADHMA NAGAR			
65	AP-48	48	DP+4	4	59°30'47"LT	41		2106		PADHMA NAGAR	23°35'50.82"	91°20'48.6"	
66	AP-49	49	DP+4	4	49°11'06"RT	18	18	2124	ROAD, 11 KV LINE	PADHMA NAGAR	23°35'50.27"	91°20'48.82"	
67	AP-50	50	DP+4	4	03°16'44"RT	24	24	2148	LT LINE	PADHMA NAGAR	23°35'49.58"	91°20'48.41"	
68	AP-51	51	DP+4	4	25°37'33"LT	24	24	2172	ROAD, 11 KV LINE	PADHMA NAGAR	23°35'48.93"	91°20'47.96"	
69	AP-52	52	DP+0		13°49'34"RT	40	40	2212		PADHMA NAGAR	23°35'47.63"	91°20'47.76"	
70	AP-53	53	DP+4	4	08°41'44"LT	33	33	2245		PADHMA NAGAR	23°35'46.65"	91°20'47.39"	
71	AP-54	54	DP+0		59°02'29"RT	18	18	2263	ROAD, LT LINE	PADHMA NAGAR	23°35'46.06"	91°20'47.25"	
72	AP-55	55	SP+0		09°13'21"LT	31	31	2294		PADHMA NAGAR	23°35'45.73"	91°20'46.2"	
73	AP-56	56	DP+0		08°26'52"LT	34	34	2328		PADHMA NAGAR	23°35'45.19"	91°20'45.15"	
74	AP-57	57	DP+0		34°24'06"LT	28	28	2356	ROAD	PADHMA NAGAR	23°35'44.67"	91°20'44.38"	
75		LOC-57/1	SP+0			27	52			PADHMA NAGAR			
76	AP-58	58	DP+0		36°53'32"RT	25		2408		PADHMA NAGAR	23°35'43.03"	91°20'43.76"	
77		LOC-58/1	SP+0			43	86			PADHMA NAGAR			
78	AP-59	59	DP+0		28°50'15"LT	43		2494		PADHMA NAGAR	23°35'41.48"	91°20'41.28"	
79	AP-60	60	DP+0		16°40'02"LT	26	26	2520		PADHMA NAGAR	23°35'40.73"	91°20'40.86"	
80	AP-61	61	DP+0		06°07'19"LT	26	26	2546		PADHMA NAGAR	23°35'39.88"	91°20'40.7"	
						24	24						

ENGINEERING LIMITED
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POLE SCHEDULE

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
81	AP-62	62	DP+0		09°49'15"LT			2570		PADHMA NAGAR	23°35'39.1"	91°20'40.64"	
82		LOC-62/1	SP+0			40				PADHMA NAGAR			
83		LOC-62/2	SP+4	4		41	113		VRD, LT LINE	PADHMA NAGAR			Hold
84	AP-63	63	SP+0		01°39'31"RT	32		2683	NALA	PADHMA NAGAR	23°35'35.43"	91°20'41.04"	
85		LOC-63/1	SP+0			26	52			PADHMA NAGAR			
86	AP-64	64	DP+0		06°54'40"LT	26		2735		PADHMA NAGAR	23°35'33.74"	91°20'41.2"	
87	AP-65	65	DP+0		29°03'17"LT	25	25	2760		PADHMA NAGAR	23°35'32.93"	91°20'41.39"	
88	AP-66	66	DP+0		23°04'13"LT	26	26	2786		PADHMA NAGAR	23°35'32.29"	91°20'41.99"	
89	AP-67	67	DP+0		22°09'59"LT	27	27	2813		PADHMA NAGAR	23°35'31.91"	91°20'42.84"	
90	AP-68	68	DP+0		10°13'20"RT	26	26	2839		PADHMA NAGAR	23°35'31.85"	91°20'43.76"	
91	AP-69	69	DP+0		15°40'54"LT	24	24	2863		PADHMA NAGAR	23°35'31.66"	91°20'44.58"	
92		LOC-69/1	SP+0			27	54			PADHMA NAGAR			
93	AP-70	70	DP+0		05°27'35"RT	27		2917		PADHMA NAGAR	23°35'31.72"	91°20'46.48"	
94	AP-71	71	SP+0		00°5'01"RT	26	26	2943		PADHMA NAGAR	23°35'31.66"	91°20'47.4"	
95	AP-72	72	DP+0		15°24'01"RT	27	27	2970		PADHMA NAGAR	23°35'31.61"	91°20'48.32"	
96	AP-73	73	DP+0		18°04'34"RT	27	27	2997		PADHMA NAGAR	23°35'31.29"	91°20'49.17"	
97	AP-74	74	DP+0		37°26'55"RT	23	23	3020	ROAD	PADHMA NAGAR	23°35'30.88"	91°20'49.84"	Hold
98		LOC-74/1	SP+0			43	130			PADHMA NAGAR			
99		LOC-74/2	SP+0	S		43				PADHMA NAGAR			
100	AP-75	75	DP+0		28°42'45"RT	44		3150		PADHMA NAGAR	23°35'26.79"	91°20'51.06"	
101	AP-76	76	DP+0		29°20'14"LT	21	21	3171	ROAD	PADHMA NAGAR	23°35'26.14"	91°20'50.89"	Hold
102		LOC-76/1	SP+0			40	110			PADHMA NAGAR			
103		LOC-76/2	SP+0			35				PADHMA NAGAR			
104	AP-77	77	DP+0		01°15'22"LT	35		3281		PADHMA NAGAR	23°35'22.71"	91°20'51.95"	
105		LOC-77/1	SP+0			36	77			PADHMA NAGAR			
106	AP-78	78	DP+0		13°49'51"RT	41		3358		PADHMA NAGAR	23°35'20.31"	91°20'52.76"	
107	AP-79	79	SP+4	4	06°01'11"LT	21	21	3379		PADHMA NAGAR	23°35'19.63"	91°20'52.8"	
108	AP-80	80	DP+4	4	47°44'14"RT	26	26	3405	ROAD, 11 KV LINE	PADHMA NAGAR	23°35'18.78"	91°20'52.96"	Hold
109	AP-81	81	DP+0		22°49'08"LT	27	27	3432		PADHMA NAGAR	23°35'18.09"	91°20'52.36"	
110		LOC-81/1	SP+0			35	103			PADHMA NAGAR			
111		LOC-81/2	SP+0			35				PADHMA NAGAR			
112	AP-82	82	DP+0		09°02'50"LT	33		3535		PADHMA NAGAR	23°35'14.83"	91°20'51.38"	
113	AP-83	83	DP+0		01°55'50"LT	24	24	3559		PADHMA NAGAR	23°35'14.05"	91°20'51.29"	
114		LOC-83/1	SP+0			39	77			PADHMA NAGAR			
115	AP-84	84	DP+0		02°57'48"LT	38		3636		PADHMA NAGAR	23°35'11.55"	91°20'51.07"	
116		LOC-84/1	SP+0			37	77			PADHMA NAGAR			
117	AP-85	85	DP+0		03°22'05"RT	40		3713		PADHMA NAGAR	23°35'9.046"	91°20'51"	
118		LOC-85/1	SP+0			26	51			PADHMA NAGAR			
119	AP-86	86	DP+0		10°47'38"LT	25		3764	LT LINE	PADHMA NAGAR	23°35'7.387"	91°20'50.84"	Hold
120	AP-87	87	DP+4	4	30°39'28"RT	21	21	3785	ROAD, 11 KV LINE	PADHMA NAGAR	23°35'6.672"	91°20'50.92"	
						23	23						

JOHNOFAB ENGINEERING LIMITED TRIPURA

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एम.के.नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे., उदयपुर / NER, UDAIPUR

POLE SCHEDULE

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
121	AP-88	88	DP+4	4	37°24'27"LT			3808		PADHMA NAGAR	23°35'5.986"	91°20'50.58"	
122		LOC-88/1	SP+0			27	53		LT LINE	PADHMA NAGAR			
123	AP-89	89	DP+4	4	04°33'37"LT	26		3861		PADHMA NAGAR	23°35'4.3"	91°20'50.99"	Hold
124	AP-90	90	SP+4	4	01°55'50"LT	29	29	3890	VRD 11 KV LINE	PADHMA NAGAR	23°35'3.425"	91°20'51.28"	
125		LOC-90/1	SP+0			42	127			PADHMA NAGAR			
126		LOC-90/2	SP+0			42				PADHMA NAGAR			
127	AP-91	91	DP+0		02°21'10"RT	43		4017		PADHMA NAGAR	23°34'59.5"	91°20'52.67"	
128		LOC-91/1	SP+0			39	78			PADHMA NAGAR			
129	AP-92	92	DP+0		02°47'17"RT	39		4095		PADHMA NAGAR	23°34'57.04"	91°20'53.4"	
130	AP-93	93	DP+0		52°19'23"LT	30	30	4125		PADHMA NAGAR	23°34'56.1"	91°20'53.63"	
131	AP-94	94	DP+0		51°42'23"RT	35	35	4160		PADHMA NAGAR	23°34'55.62"	91°20'54.76"	
132	AP-95	95	FP+0		71°51'14"RT	23	23	4183		PADHMA NAGAR	23°34'54.88"	91°20'54.95"	
133		LOC-95/1	SP+0			36	72			PADHMA NAGAR			
134	AP-96	96	DP+0		39°08'59"LT	36		4255			23°34'53.65"	91°20'52.81"	
135	AP-97	97	FP+0		67°45'18"RT	27	27	4282			23°34'52.84"	91°20'52.5"	
136		LOC-97/1	SP+4	4		35	70						Hold
137	AP-98	98	FP+0		89°34'41"LT	35		4352	11 KV LINE		23°34'52.71"	91°20'50.04"	
138		LOC-98/1	SP+0			34	68						
139	AP-99	99	DP+0		17°50'19"LT	34		4420			23°34'50.47"	91°20'50.14"	
140		LOC-99/1	SP+0			33	66						
141	AP-100	100	DP+0		35°12'47"RT	33		4486	NALA		23°34'48.5"	91°20'50.97"	Hold
142		LOC-100/1	SP+0			35	106						
143		LOC-100/2	SP+0			36							
144	AP-101	101	DP+0		50°53'16"LT	35		4592	VRD				
145	AP-102	102	SP+0		09°27'44"LT	26	26	4618	ROAD		23°34'45.17"	91°20'50.03"	Hold
146		LOC-102/1	SP+0			36	112		VRD		23°34'44.49"	91°20'50.56"	
147		LOC-102/2	SP+0			36							
148	AP-103	103	DP+0		14°02'10"LT	40		4730					
149	AP-104	104	SP+0		09°28'16"LT	23	23	4753			23°34'41.95"	91°20'53.38"	
150		LOC-104/1	SP+0			35	106				23°34'41.57"	91°20'54.09"	
151		LOC-104/2	SP+0			35							
152	AP-105	105	DP+0		11°46'31"RT	36		4859					
153	AP-106	106	DP+0		29°09'31"RT	22	22	4881			23°34'40.41"	91°20'57.6"	
154		LOC-106/1	SP+0			33					23°34'40.02"	91°20'58.27"	
155		LOC-106/2	SP+0			35	102						
156	AP-107	107	DP+0		23°59'31"RT	34		4983					
157	AP-108	108	SP+0		01°42'58"LT	25	25	5008			23°34'37.12"	91°21'0.042"	
158		LOC-108/1	SP+0			39					23°34'36.3"	91°21'0.123"	
159		LOC-108/2	SP+0			34	108						
161	AP-109	109	DP+0		11°48'46"LT	35		5116					
						27	27		ROAD		23°34'32.8"	91°21'0.52"	Hold

TRIPURA

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Raju Sinha
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XI0000047

POLE SCHEDULE

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	GPS CO-ORDINATE(WGS-84) EASTING	REMARKS
162	AP-110	110	DP+0		33°05'30"LT	23	[illegible]	5143			23°34'31.96"	91°21'0.812"	
163	AP-111	111	SP+0		04°16'04"LT	26	23	5166			23°34'31.48"	91°21'1.453"	
164	AP-112	112	DP+0		16°39'06"LT	40	26	5192			23°34'31"	91°21'2.2"	
165		LOC-112/1	SP+0			40	80						
166	AP-113	113	SP+0		02°29'04"RT	25		5272			23°34'30.18"	91°21'4.89"	
167	AP-114	114	DP+0		20°15'47"RT	24	25	5297			23°34'29.9"	91°21'5.705"	
168	AP-115	115	DP+0		12°01'08"RT	44	24	5321			23°34'29.38"	91°21'6.346"	
169		LOC-115/1	SP+0			44							
170		LOC-115/2	SP+0			44	132						
171	AP-116	116	DP+0		03°05'33"LT	40		5453			23°34'25.97"	91°21'9.14"	
172		LOC-116/1	SP+0			40	80						
173	AP-117	117	DP+0		16°49'13"RT	26		5533			23°34'23.97"	91°21'10.96"	
174	AP-118	118	SP+0		09°58'02"RT	25	26	5559			23°34'23.19"	91°21'11.32"	
175		LOC-118/1	SP+0			25	50						
176	AP-119	119	DP+0		17°13'35"RT	25		5609			23°34'21.6"	91°21'11.73"	
177	AP-120	120	DP+0		23°43'37"RT	32	25	5634			23°34'20.79"	91°21'11.67"	
178		LOC-120/1	SP+0			27	59						
179	AP-121	121	DP+0		23°43'37"LT	25		5693			23°34'19.09"	91°21'10.7"	
180	AP-122	122	DP+4	4	14°45'15"RT	36	25	5718	ROAD		23°34'18.28"	91°21'10.64"	Hold
181		LOC-122/1	SP+4	4		35			LT LINE, VRD				
182		LOC-122/2	SP+0			35	142		11 KV LINE				
183		LOC-122/3	SP+0			36							
184	AP-123	123	DP+0		01°13'40"RT	25		5860		BAIRAGI	23°34'13.9"	91°21'9.044"	
185		LOC-123/1	SP+0			26	51			BAIRAGI			
186	AP-124	124	SP+0		09°58'57"LT	38		5911		BAIRAGI	23°34'12.34"	91°21'8.428"	
187		LOC-124/1	SP+0			38	76			BAIRAGI			
188	AP-125	125	DP+0		06°48'04"LT	30		5987		BAIRAGI	23°34'9.898"	91°21'7.965"	
189		LOC-125/1	SP+0			30				BAIRAGI			
190		LOC-125/2	SP+0			31	91			BAIRAGI			
191	AP-126	126	DP+4	4	12°11'57"LT	27		6078	ROAD, 11 KV LINE	BAIRAGI	23°34'6.938"	91°21'7.79"	
192	AP-127	127	SP+4	4	09°17'42"RT	44	27	6105		BAIRAGI	23°34'6.062"	91°21'7.942"	Hold
193		LOC-127/1	SP+0			44				BAIRAGI			
194		LOC-127/2	SP+0			44	132			BAIRAGI			
195	AP-128	128	SP+0		05°37'54"LT	36		6237		BAIRAGI	23°34'1.77"	91°21'7.926"	
196		LOC-128/1	SP+0			36	72			BAIRAGI			
197	AP-129	129	DP+4	4	11°56'08"LT	21		6309	ROAD, 11 KV, LT LINE NALA	BAIRAGI	23°33'59.43"	91°21'8.166"	Hold
198	AP-130	130	SP+4	4	09°51'23"RT	25	21	6330		BAIRAGI	23°33'58.78"	91°21'8.386"	
199	AP-131	131	DP+0		16°54'24"LT	27	25	6355		BAIRAGI	23°33'57.97"	91°21'8.502"	
200	AP-132	132	SP+0		08°12'18"LT	39	27	6382		BAIRAGI	23°33'57.16"	91°21'8.9"	
201		LOC-132/1	SP+0			39				BAIRAGI			
202		LOC-132/2	SP+0			41	119			BAIRAGI			
203	AP-133	133	SP+0		04°28'48"RT	28	28	6501		BAIRAGI	23°33'53.9"	91°21'11.16"	

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POLE SCHEDULE

SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84)		REMARKS
											NORTHING	EASTING	
204	AP-134	134	DP+2	2	34°03'23"RT			6529		BAIRAGI	23°33'53.09"	91°21'11.63"	
205	AP-135	135	DP+2	2	15°09'56"LT	26	26	6555	ROAD, 11 KV LINE	BAIRAGI	23°33'52.25"	91°21'11.53"	Hold
206		LOC-135/1	SP+0			36				BAIRAGI			
207		LOC-135/2	SP+0			35	107			BAIRAGI			
208	AP-136	136	SP+0		08°35'01"RT	36		6662		BAIRAGI	23°33'48.81"	91°21'12.14"	
209	AP-137	137	DP+4	4	56°49'17"LT	26	26	6688		BAIRAGI	23°33'47.96"	91°21'12.15"	
210	AP-138	138	DP+0		40°52'34"RT	31	31	6719	ROAD, 11 KV LINE	BAIRAGI	23°33'47.42"	91°21'13.07"	Hold
211	AP-139	139	DP+0		33°36'52"LT	20	20	6739		BAIRAGI	23°33'46.97"	91°21'13.22"	
212		LOC-139/1	SP+4	4		40				BAIRAGI			
213		LOC-139/2	SP+0			40	116		LT LINE	BAIRAGI			Hold
214	AP-140	140	DP+0		12°57'10"RT	36		6855		BAIRAGI	23°33'44.56"	91°21'16.35"	
215	AP-141	141	SP+0		0°47'54"RT	44	44	6899		BAIRAGI	23°33'43.43"	91°21'17.28"	
216	AP-142	142	DP+0		12°30'02"RT	43	43	6942		BAIRAGI	23°33'42.34"	91°21'18.21"	
217		LOC-142/1	SP+0			41							
218		LOC-142/2	SP+0			41	123		VRD, NALA				Hold
219	AP-143	143	DP+0		04°38'54"RT	41		7065			23°33'38.72"	91°21'20.09"	
220		LOC-143/1	SP+4	4		45			VRD				Hold
221		LOC-143/2	SP+0			44	179		LT LINE	NALCHAR			
222		LOC-143/3	SP+0			45				NALCHAR			
223	AP-144	144	DP+4	4	32°04'41"RT	45		7244		NALCHAR	23°33'33.28"	91°21'22.35"	
224	AP-145	145	SP+4	4	02°24'51"LT	42	42	7286	ROAD, 11 KV LINE	NALCHAR	23°33'31.88"	91°21'22.05"	
225		LOC-145/1	SP+4	4		43			LT LINE	NALCHAR			
226		LOC-145/2	SP+4	4		43			2 NOS LT LINE	NALCHAR			Hold
227		LOC-145/3	SP+0			43			VRD	NALCHAR			
228		LOC-145/4	DP+0			43				NALCHAR			
229		LOC-145/5	SP+0	0		43	342			NALCHAR			
230		LOC-145/6	SP+4	4		42			2 NOS 11 KV, LT LINE	NALCHAR			Hold
231		LOC-145/7	SP+0			43				NALCHAR			
232	AP-146	146	SP+0		02°24'51"LT	42		7628		NALCHAR	23°33'20.87"	91°21'20.21"	
233	AP-147	147	DP+4	4	09°43'46"LT	42	42	7670		NALCHAR	23°33'19.5"	91°21'20.09"	
234	AP-148	148	SP+4	4	07°41'13"LT	40	40	7710	3NOS LT LINE	NALCHAR	23°33'18.2"	91°21'20.21"	Hold
235	AP-149	149	DP+4	4	10°57'21"LT	34	34	7744		NALCHAR	23°33'17.13"	91°21'20.47"	
236	AP-150	150	DP+0		19°12'03"RT	28	28	7772	VRD, 11 KV LINE	NALCHAR	23°33'16.29"	91°21'20.87"	Hold
237	AP-151	151	DP+4	4	20°39'32"RT	45	45	7817		NALCHAR	23°33'14.8"	91°21'20.99"	
238		LOC-151/1	SP+0			36	72		LT LINE	NALCHAR			
239	AP-152	152	SP+4	4	01°48'13"LT	36		7889		NALCHAR	23°33'12.55"	91°21'20.28"	
240	AP-153	153	SP+4	4	09°16'05"LT	38	38	7927	LT LINE	NALCHAR	23°33'11.34"	91°21'19.94"	
241	AP-154	154	SP+0		04°55'42"RT	39	39	7966		NALCHAR	23°33'10.07"	91°21'19.81"	Hold
242	AP-155	155	DP+0		10°11'03"RT	43	43	8009		NALCHAR	23°33'8.709"	91°21'19.55"	
243		LOC-155/1	SP+4	4		45				NALCHAR			
244		LOC-155/2	SP+4	4		45	179		VRD, LT LINE	NALCHAR			
245		LOC-155/3	SP+0			44				NALCHAR			Hold
246	AP-156	156	SP+0		03°48'24"RT	45		8188		NALCHAR	23°33'3.257"	91°21'17.36"	
						43	43		VRD				Hold

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SL. NO	AP NO	POLE NO.	TYPE OF POLE	EXT. (M)	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	VILLAGE NAME	GPS CO-ORDINATE(WGS-84) NORTHING	EASTING	REMARKS
247	AP-157	157	DP+4	4	43°12'36"LT			8231		NALCHAR	23°33'1.983"	91°21'16.74"	Hold
						41	41		ROAD, 11 KV LINE				
248	AP-158	158	SP+4	4	09°26'16"RT			8272		NALCHAR	23°33'0.72"	91°21'17.22"	
						41			VRD,2NOS LT LINE				
249		LOC-158/1	SP+4	4						NALCHAR			
						40	121						
250		LOC-158/2	SP+0							NALCHAR			
						40							
251	AP-159	159	DP+0		05°49'47"RT			8393		NALCHAR	23°32'56.82"	91°21'17.93"	
						42							
252		LOC-159/1	SP+0							NALCHAR			
						43							
253		LOC-159/2	SP+0							NALCHAR			
						42							
254		LOC-159/3	DP+0				253			NALCHAR			
						42							
255		LOC-159/4	SP+0							NALCHAR			
						42							
256		LOC-159/5	SP+0							NALCHAR			
						42							
257	AP-160	160	SP+4	4	01°48'09"LT			8646		NALCHAR	23°32'48.6"	91°21'18.53"	Hold
						23	23		ROAD, 11 KV LINE				
258	AP-161	161	DP+4	4	12°07'59"LT			8669		NALCHAR	23°32'47.86"	91°21'18.61"	
						41	41		2NOS LT LINE				
259	AP-162	162	DP+4	4	11°57'07"LT			8710		NALCHAR	23°32'46.59"	91°21'19.05"	
						32							
260		LOC-162/1	SP+0							NALCHAR			
						30	93						
261		LOC-162/2	SP+0							NALCHAR			Hold
						31			NALA				
262	AP-163	163	SP+0		04°08'59"RT			8803		NALCHAR	23°32'43.98"	91°21'20.67"	
						31	31						
263	AP-164	164	DP+0		21°10'24"RT			8834		NALCHAR	23°32'43.07"	91°21'21.14"	
						45	45						
264	AP-165	165	SP+0		03°03'26"RT			8879		NALCHAR	23°32'41.58"	91°21'21.26"	
						43							
265		LOC-165/1	SP+0				85			NALCHAR			
						42							
266	AP-166	166	SP+0		08°34'19"LT			8964		NALCHAR	23°32'38.82"	91°21'21.33"	Hold
						44	44		VRD				
267	AP-167	167	DP+4	4	16°43'42"LT			9008		NALCHAR	23°32'37.42"	91°21'21.6"	
						43	43		ROAD, 11 KV, LT LINE				
268	AP-168	168	DP+4	4	14°11'17"RT			9051		NALCHAR	23°32'36.16"	91°21'22.28"	
						40			11KV,LT LINE, VRD				
269		LOC-168/1	SP+4	4			80			NALCHAR			
						40			2NOS 11 KV LINE				
270	AP-169	169	FP+4	4	77°15'13"LT			9131		NALCHAR	23°32'33.63"	91°21'22.91"	
						40	40						
271	AP-170	170	FP+0		00°00'00"			9171		NALCHAR	23°32'33.61"	91°21'24.25"	

pole schedule with normal pole (+0m) and others are within the permissible limit of angle of deviation & within permissible limit of individual span are approved. hold all road crossing spans rest on power line crossing span, railway line crossing etc. & span crossing river having angle of individual span limit violation.

Detail profile to be submitted for the above crossing.

M/s Technofab may be intimated accordingly.

M/s Technofab to submit the detail profiles at the earliest.

21/10/2017

TECHNOFAB ENGINEERING LIMITED TRIPURA

SUBMITTED BY
TECHNOFAB ENGINEERING LTD

फील्ड सुपरवाईजर / FIELD SUPERVISOR
पावर ग्रिड / POWER GRID
उ० पू० क्षे० उदयपुर / NER, UDAIPUR
CHECKED BY
P.G.C.I.L.

एम के नाग / M. K. NAG
प्रबंधक / MANAGER
पावरग्रिड / POWERGRID
उ.पू.क्षे., उदयपुर / NER, UDAIPUR
APPROVED BY
PGCIL

LINE-IN

POLE SUMMARY DETAILS

Tripura State Associated with NER Power System Improvement Project (DMS PACKAGE 04)

CC-CS/86-NER/REW-2985/1/G2/NOA - I & II / 7145 & 7146 Dated- 20/01/2017

LINK NAME :- LILO OF EXISTING SURAJMANI NAGAR TO TAKARJALA LINE AT GABARDI (LINE IN FROM SURAJMANI NAGAR)

TOTAL LINE LENGTH - .624 KM

		SL NO.	TYPE OF POLE	POLE HEIGHT	POLE QT.
		1	SP (GA-01)	12 M	4
		3	SP (GA-02)	12 M	3
		4	SP	14.5 M	0
		5	DP(GA-03)	12 M	5
		6	DP	14.5 M	0
		7	FP(GA-04)	12 M	2
		8	FP	14.5 M	2
		9	SP	12 M+ 1M EXTENTION	0
		10	SP	14.5 M+ 1M EXTENTION	0
		11	DP	12 M+ 1M EXTENTION	0
		12	DP	14.5 M+ 1M EXTENTION	0
		13	FP	12 M+ 1M EXTENTION	0
		14	FP	14.5 M+ 1M EXTENTION	0
			TOTAL LOCATION		**16**

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ. पू. क्षे., अगरतला / NER, Agartala

OWNER:-T.S.E.C.L
CLIENT:-P.G.C.I.L

DETAIL POLE SCHEDULE
LILO IN FORM SURAJMANI NAGAR

LINK NAMR:- LILO OF EXISTING SURAJMANI NAGAR
TO TAKARJALA LINE AT GABARDI

SL. NO.	AFTER ROUTE ALIGNMENT .NO	AFTER DETAILSURVEY AP NO	PGCIL STANDARD POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN/SECTION. LENGTH	CUMTV. LENGTH.	CROSSING DETAILES	REMARKS	POLE HEIGHT
1	AP-1	AP-1	GA-04.1/2	FP+0	00°00'00"					12 M
						45	45			
2		7/1	GA-01	SP+0						12 M
						45	90			
3	AP-2	AP-2	GA-02	SP+0	6°17'29"LT					12 M
						32	122			
4	AP-3	AP-3	GA-03	DP+0	50°28'14"RT					12 M
						45	167			
5	AP-4	AP-4	GA-03	DP+0	16°44'29"RT					12 M
						41	208	VILL -ROAD		
6	AP-5	AP-5	GA-04.1/2	FP+0	63°5'35"LT					12 M
						35	243	POND		
7	AP-6	AP-6	GA-02	SP+0	00°29'39"LT					12 M
						45	288			
8	AP-7	AP-7	GA-02	SP+0	5°44'29"LT					12 M
						43	331			
9		7/1	GA-01	SP+0						12 M
						43	374			
10		7/2	GA-01	SP+0						12 M
						42	416			
11	AP-8	AP-8	GA-03	DP+0	17°31'37"LT					12 M
						45	461			
12		8/1	GA-01	SP+0						12 M
						45	506			
13	AP-9	AP-9	GA-03	DP+0	40°07'02"LT					12 M
						44	550			
14	AP-10	AP-10	GA-03	DP+0	26°39'6"RT					12 M
						31	581			
15	AP-11	AP-11	****	DP+4	7°19'20"RT					14.5 M
						43	624	11 KV, MRD		
16	AP-12	AP-12	****	FP+4	00°00'00"					14.5 M

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
अगरतला / NER, Agartala

उत्तम दास / UTTAM DAS
उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

LINE-OUT

POLE SUMMARY DETAILS

Tripura State Associated with NER Power System Improvement Project (DMS PACKAGE 04)

CC-CS/86-NER/REW-2985/1/G2/NOA - I & II / 7145 & 7146 Dated- 20/01/2017

LINK NAME :- LILO OF EXISTING SURAJMANI NAGAR TO TAKARJALA LINE AT GABARDI (LINE OUT TAKARJALA)

TOTAL LINE LENGTH - .807 KM

		SL NO.	TYPE OF POLE	POLE HEIGHT	POLE QT.
		1	SP (GA-01)	12 M	
		3	SP (GA-02)	12 M	1
		4	SP	14.5 M	2
		5	DP(GA-03)	12 M	8
		6	DP	14.5 M	3
		7	FP(GA-04)	12 M	2
		8	FP	14.5 M	1
		9	SP	12 M+ 1M EXTENTION	1
		10	SP	14.5 M+ 1M EXTENTION	2
		11	DP	12 M+ 1M EXTENTION	1
		12	DP	14.5 M+ 1M EXTENTION	2
		13	FP	12 M+ 1M EXTENTION	
		14	FP	14.5 M+ 1M EXTENTION	0
			TOTAL LOCATION		**23**

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala

OWNER:-T.S.C.L
CLIENT:-P G.C.I.L

DETAIL SURVEY POLE SCHEDULE
LINE OUT TO GABARDI

Lilo of Existing Suraj Mani Nagar-Takarjala Line to Gabardi

SL.NO	AFTER DETAIL SURVEY POLE NO	PGCIL STANDARD POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SECTION. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
1	EXT.-1	GA-04.1/2	FP							12M
					15	15	15			
2	1	***	DP	23°13'24"LT						14.5M+1M ANGLE EXTENSION
					20	20	35	Metal Road, 11Kv+LT Line		
3	2	***	DP	35°58'10"RT						14.5M
					45	45	80	LT Line		
4	3	GA-03	DP	11°19'57"LT						12M
					45	45	125			
5	4	GA-02	SP	1°27'34"RT					SP WITH ANGLE	12M
					42	42	167	Vill Road, LT Line		
6	5	**	SP	1°11'38"LT					SP WITH ANGLE	14.5M+1M ANGLE EXTENSION
					42	42	209	Metal Road, 11Kv		
7	6	**	SP	5°38'32"LT					SP WITH ANGLE	14.5M
					44	44	253	11Kv		
8	7	***	DP	19°31'51"RT						14.5M+1M ANGLE EXTENSION
					38	38	291	LT Line		
9	8	***	SP	5°19'49"LT					SP WITH ANGLE	12M+1M ANGLE EXTENSION
					26	26	317	LT Line		
10	9	***	DP	21°0'52"RT						14.5M
					28	28	345			
11	10	****	FP	102°28'31"LT						14.5M
					30	30	375	Metal Road, LT Line		
12	11	***	DP	16°4'30"RT						14.5M
					39	39	414	LT Line		
13	12	**	SP	5°10'32"LT					SP WITH ANGLE	12M+1M ANGLE EXTENSION
					35	35	449			

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

उत्तम चन्द्र नाथ/UTTAM DEB NATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

OWNER:-T.S.C.L
CLIENT:-P.G.C.I.L

DETAIL SURVEY POLE SCHEDULE
LINE OUT TO GABARDI

14	**13**	**GA-03**	D/C DP	14°54'20"RT					on line	12M
					45	**45**	494	Metal Road		
15	**14**	**GA-03**	DP	12°16'36"LT						12M
					42	**42**	536	LT Line		
16	**15**	**GA-03**	DP	15°5'23"LT						12M
					42	**42**	578			
17	**16**	**GA-03**	DP	10°37'4"LT						12M
					39	**39**	617			
18	**17**	**	SP	1°14'33"RT					SP WITH ANGLE	14.5M
					32	**32**	649	Metal Road, 11Kv, LT		
19	**18**	**	SP	4°44'10"RT					SP WITH ANGLE	14.5M+1M ANGLE EXTENSION
					45	**45**	694			
20	**19**	**GA-03**	DP	59°16'41"LT						12M
					35	**35**	729			
21	**20**	**GA-03**	DP	41°5'15"LT						12M
					35	**35**	764			
22	**21**	**GA-03**	DP	13°14'45"LT						12M
					43	**43**	807			
23	**22**	**GA-04.1/2**	FP							12M

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala

29/5/18

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

POLE SUMMARY DETAILS

Tripura State Associated with NER Power System Improvement Project (DMS PACKAGE 04)

TRI-DMS-03(3604)CC-CS/86-NER/REW-2986/1/G2/NOA - I & II / 7168 & 7169 Dated- 22/02/2017

LINK NAME :-CHECHUA TO TAIDU

TOTAL LINE LENGTH:- 16.215KM.

SL NO.	TYPE OF POLE	POLE HEIGHT	POLE QT.
	SP (GA-01)	12 M	29
1	SP (GA-02)	12 M	111
2	SP	14.5 M	19
3	DP(GA-03)	12 M	221
4	DP	14.5 M	36
5	FP(GA-04)	12 M	15
6	FP	14.5 M	2
7	SP	12 M+ 1M EXTENTION	4
8	SP	14.5 M+ 1M EXTENTION	12
9	DP	12 M+ 1M EXTENTION	10
10	DP	14.5 M+ 1M EXTENTION	11
11	FP	12 M+ 1M EXTENTION	2
12	FP	14.5 M+ 1M EXTENTION	2
	TOTAL LOC		**474**

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
1	BAY	BAY	GA-04	FP+0	00°00'00"					12 M
						42	42			
2	AP-1	1	GA-03	DP+0	22°09'59"RT			42		12 M
						26	26			
3	AP-2	2	GA-04	FP+0	60°42'31"RT			68		14.5 M
						45	90			
4		LOC-2/1	*	SP+0						14.5 M
						45			11 KV LINE	
5	AP-3	3	**	SP+0	03°56'43"RT			158		14.5 M+1M ANGLE EXTENTION
						34	34		ROAD, NALA	
6	AP-4	4	GA-03	DP+0	35°50'00"RT			192		12 M
						40	80			
7		LOC-4/1	GA-01	SP+0						12 M
						40			VRD	
8	AP-5	5	GA-02	SP+0	10°55'55"RT			272		12 M
						45	45			
9	AP-6	6	***	DP+0	11°18'36"LT			317		14.5 M
						32	32		LT LINE	
10	AP-7	7	**	SP+0	07°47'07"RT			349		14.5 M+1M ANGLE EXTENTION
						26	26		ROAD	
11	AP-8	8	GA-02	SP+0	09°24'36"LT			375		12 M
						28	28			
12	AP-9	9	GA-02	SP+0	06°24'21"RT			403		12 M
						27	27			
13	AP-10	10	GA-03	DP+0	12°26'26"RT			430		12 M
						28	28			
14	AP-11	11	GA-03	DP+0	21°11'47"LT			458		12 M
						33	33		ROAD	
15	AP-12	12	GA-03	DP+0	31°28'50"LT			491		12M+1M ANGLE EXTENTION
						37	37			
16	AP-13	13	GA-02	SP+0	01°57'31"LT			528		14.5 M
						39	39			
17	AP-14	14	GA-03	DP+0	25°43'51"LT			567		12 M
						29	29			
18	AP-15	15	GA-02	SP+0	09°58'40"RT			596		12 M
						30	30			
19	AP-16	16	***	DP+0	32°17'46"RT			626		14.5 M
						40	40		11 KV LINE	
20	AP-17	17	**	SP+0	03°36'50"LT			666		14.5 M
						37	37			
21	AP-18	18	GA-03	DP+0	18°04'17"RT			703		12 M

TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala

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21/5/16

उप प्रबंधक/DEPUTY MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						45				
22		LOC-18/1	GA-01	SP+0						12 M
						45	135			
23		LOC-18/2	GA-01	SP+0						12 M
						45				
24	AP-19	19	GA-02	SP+0	04°56'07"LT			838		12 M
						38			VRD	
25	AP-20	20	GA-03	DP+0	09°47'16"RT		38	876		12 M
						65	65		RIVER	
26	AP-21	21	GA-03	DP+0	27°50'15"RT			941		12 M
						27	27		VRD	
27	AP-22	22	GA-03	DP+0	22°59'12"LT			968		12 M
						28	28			
28	AP-23	23	***	DP+0	10°07'29"LT			996		12M+1M ANGLE EXTENTION
						29	29		ROAD	
29	AP-24	24	GA-03	DP+0	14°34'27"RT			1025		12 M
						41				
30		LOC-24/1	GA-01	SP+0						12 M
						41				
31		LOC-24/2	GA-01	SP+0						12 M
						41	205			
32		LOC-24/3	*	SP+0						14.5 M
						41			LT LINE	
33		LOC-24/4	GA-03	DP+0						12 M
						41				
34	AP-25	25	GA-02	SP+0	01°14'59"LT			1230		12 M
						39				
35		LOC-25/1	GA-01	SP+0			84			12 M
						45				
36	AP-26	26	GA-03	DP+0	17°33'39"LT			1314		12 M
						39	39			
37	AP-27	27	GA-02	SP+0	08°49'59"LT			1353		12 M
						45	45			
38	AP-28	28	**	SP+0	08°20'37"LT			1398		14.5 M
						42	42		VRD, 11 KV LINE	
39	AP-29	29	**	SP+0	01°48'17"LT			1440		14.5 M
						45				
40		LOC-29/1	GA-01	SP+0			90			12 M
						45				
41	AP-30	30	GA-02	SP+0	03°51'28"LT			1530		12 M
						45	45			
42	AP-31	31	GA-03	DP+0	30°50'20"RT			1575		12 M

HOLD

HOLD

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.यू.खे., अगरतला/NER, Agartala

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						30			ROAD	
43	AP-32	32	**	SP+0	09°31'38"LT		30	1605		14.5 M+1M ANGLE EXTENTION
						28			11 KV, LT LINE	
44	AP-33	33	**	SP+0	03°21'59"LT		28	1633		14.5 M
						32				
45	AP-34	34	GA-03	DP+0	10°06'18"RT		32	1665		12 M
						44				
46	AP-35	35	**	SP+0	03°36'41"LT		44	1709		14.5 M+1M ANGLE EXTENTION
						40			11 KV LINE	
47	AP-36	36	**	SP+0	05°29'18"LT		40	1749		14.5 M+1M ANGLE EXTENTION
						33				
48	AP-37	37	GA-03	DP+0	23°37'46"RT		33	1782		12 M
						28				
49	AP-38	38	GA-02	SP+0	02°11'42"LT		28	1810		12 M
						25			ROAD	
50	AP-39	39	GA-03	DP+0	31°28'50"RT		25	1835		12 M
						45				
51	AP-40	40	***	DP+0	18°42'14"LT		45	1880		14.5 M
						26			ROAD, 11 KV LINE	
52	AP-41	41	***	DP+0	36°19'07"LT		26	1906		12M+1M ANGLE EXTENTION
						25				
53	AP-42	42	GA-03	DP+0	20°42'36"LT		25	1931		12 M
						26				
54	AP-43	43	GA-03	DP+0	14°33'30"RT		26	1957		12 M
						27				
55	AP-44	44	GA-02	SP+0	06°24'46"RT		27	1984		12 M
						26				
56	AP-45	45	GA-02	SP+0	02°20'44"RT		26	2010		12 M
						27				
57	AP-46	46	GA-02	SP+0	04°14'11"RT		27	2037		12 M
						32				
58	AP-47	47	***	DP+0	38°39'35"LT		32	2069		14.5 M
						26			ROAD, 11 KV LINE	
59	AP-48	48	***	DP+0	17°39'00"LT		26	2095		14.5 M
						32				
60	AP-49	49	GA-03	DP+0	35°03'34"RT		32	2127		12 M
						39				
61	AP-50	50	GA-03	DP+0	54°56'26"RT		39	2166		12 M
						33			ROAD	
62	AP-51	51	GA-02	SP+0	05°08'23"RT		33	2199		12 M
						45				
63	AP-52	52	GA-02	SP+0	08°45'40"LT		45	2244		12 M

TECHNOCRATS ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड
उ.पू.क्षे., NER, Agartala

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
64	AP-53	53	GA-02	SP+0	07°42'26"RT	33	33	2277		12 M
65	AP-54	54	GA-03	DP+0	13°00'02"LT	40	40	2317		12 M
66	AP-55	55	GA-02	SP+0	07°01'50"LT	29	29	2346	ROAD	12 M
67	AP-56	56	***	DP+0	15°21'31"LT	26	26	2372		14.5 M+1M ANGLE EXTENTION
68	AP-57	57	***	DP+0	23°10'26"RT	24	24	2396	VRD, 11 KV LINE	14.5 M+1M ANGLE EXTENTION
69	AP-58	58	GA-02	SP+0	08°57'11"LT	41	41	2437		12 M
70	AP-59	59	GA-02	SP+0	07°26'41"LT	45	45	2482		12 M
71	AP-60	60	GA-02	SP+0	02°08'51"RT	31	31	2513	VRD	12 M
72	AP-61	61	***	DP+0	15°23'44"LT	25	25	2538		14.5 M
73	AP-62	62	**	SP+0	02°14'17"RT	28	28	2566	11 KV LINE	12M+1M ANGLE EXTENTION
74	AP-63	63	***	DP+0	56°32'42"LT	31	31	2597	ROAD, 11 KV LINE	14.5 M
75	AP-64	64	GA-02	SP+0	02°40'05"RT	31	31	2628	ROAD	12 M
76	AP-65	65	GA-02	SP+0	05°42'38"LT	22	22	2650		12 M
77	AP-66	66	***	DP+0	22°21'12"RT	36	36	2686		14.5 M
78	AP-67	67	****	FP+0	60°44'08"RT	41	41	2727	2 NOS 11 KV LINE	12M+1M ANGLE EXTENTION
79	AP-68	68	***	DP+0	35°02'06"RT	30	30	2757		14.5 M
80	AP-69	69	GA-03	DP+0	43°48'12"LT	29	29	2786	ROAD, 11 KV LINE	12 M
81	AP-70	70	GA-03	DP+0	10°54'57"RT	26	26	2812		12 M
82	AP-71	71	GA-02	SP+0	05°45'05"RT	27	27	2839		12 M
83	AP-72	72	GA-02	SP+0	06°59'48"LT	40	40	2879		12 M
84	AP-73	73	GA-02	SP+0	07°03'37"LT	37	37	2916		12 M

FIELD ENGINEER

DY. MANAGER

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						45	45			
85	AP-74	74	GA-02	SP+0	03°44'36"LT			2961		12 M
						45	45			
86	AP-75	75	GA-02	SP+0	01°34'19"LT			3006		12 M
						33	99			
87		LOC-75/1	GA-01	SP+0						12 M
						33				
88		LOC-75/2	GA-01	SP+0						12 M
						33				
89	AP-76	76	GA-03	DP+0	11°18'06"LT			3105		12 M
						27	27			
90	AP-77	77	GA-03	DP+0	15°06'57"RT			3132		12 M
						27	27			
91	AP-78	78	GA-03	DP+0	18°20'03"RT			3159		12 M
						27	27			
92	AP-79	79	GA-03	DP+0	26°55'48"LT			3186		12 M
						26	26			
93	AP-80	80	GA-03	DP+0	29°18'13"LT			3212		12 M
						42	42			
94	AP-81	81	GA-03	DP+0	33°37'06"LT			3254		12 M
						45	45			
95	AP-82	82	GA-03	DP+0	21°36'40"LT			3299		12 M
						23	23		ROAD, 11 KV LINE	
96	AP-83	83	GA-03	DP+0	24°52'39"RT			3322		12 M
						38	76			
97		LOC-83/1	GA-03	DP+0						12 M
						38			33KV	
98	AP-84	84	GA-03	DP+0	43°56'49"RT			3398		12 M
						25	25		ROAD, 11 KV LINE	
99	AP-85	85	GA-03	DP+0	18°56'47"LT			3423		12 M
						28	28		ROAD, 11 KV LINE	
100	AP-86	86	GA-03	DP+0	35°15'25"RT			3451		12 M
						40	80			
101		LOC-86/1	GA-01	SP+0						12 M
						40				
102	AP-87	87	GA-03	DP+0	48°58'19"RT			3531		12 M
						27	27		11 KV LINE	
103	AP-88	88	GA-03	DP+0	27°16'52"RT			3558		12 M
						39	78		33 KV LINE	
104		LOC-88/1	GA-01	SP+0						12 M
						39				
105	AP-89	89	GA-02	SP+0	08°44'46"RT			3636		12 M

Sandhu Bajpai

TECHNOFAB ENGINEERING LIMITED TRIPURA

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उ.पू.खे., अगरतला / NER, Agartala.

24/5/16
उत्तम दास / UTTAM DEBNATH
उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						29	29		ROAD	
106	AP-90	90	GA-03	DP+0	19°39'14"LT			3665		12 M
						30	30			
107	AP-91	91	GA-03	DP+0	51°54'40"LT			3695		12 M
						25	25		ROAD	
108	AP-92	92	GA-02	SP+0	02°47'34"LT			3720		12 M
						26	26			
109	AP-93	93	GA-03	DP+0	26°31'40"LT			3746		12 M
						26	26			
110	AP-94	94	GA-03	DP+0	18°35'25"LT			3772		12 M
						26	26			
111	AP-95	95	GA-02	SP+0	02°59'43"LT			3798		12 M
						26	26		11 KV LINE	
112	AP-96	96	**	SP+0	03°51'39"RT			3824		14.5 M
						25	25		11 KV LINE	
113	AP-97	97	GA-02	SP+0	08°51'49"RT			3849		12 M
						41	41		NALA, 11 KV LINE	
114	AP-98	98	***	DP+0	13°15'50"RT			3890		12M+1M ANGLE EXTENTION
						44	44			
115	AP-99	99	GA-03	DP+0	55°17'50"RT			3934		12 M
						45	45			
116	AP-100	100	GA-02	SP+0	03°48'51"LT			3979		12 M
						35	35			
117	AP-101	101	GA-02	SP+0	01°16'23"RT			4014		12 M
						32	32		ROAD, 11 KV LINE	
118	AP-102	102	***	DP+0	21°38'58"LT			4046		14.5 M
						26	26			
119	AP-103	103	GA-02	SP+0	08°50'34"LT			4072		12 M
						45	45			
120	AP-104	104	**	SP+0	04°32'33"RT			4117		14.5 M
						29	29			
121	AP-105	105	***	DP+0	23°07'43"RT			4146		14.5 M
						26	26			
122	AP-106	106	GA-03	DP+0	39°03'11"LT			4172		12 M
						31	31			
123	AP-107	107	**	SP+0	03°10'47"LT			4203		14.5 M+1M ANGLE EXTENTION
						42	42		ROAD, 11 KV LINE	
124	AP-108	108	***	DP+0	37°46'20"RT			4245		14.5 M
						27	27			
125	AP-109	109	GA-02	SP+0	06°00'32"RT			4272		12 M
						27	27			
126	AP-110	110	GA-03	DP+0	23°11'55"RT			4299		12 M

TECHNOFAB ENGINEERING LIMITED TRIPURA

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उप प्रबंधक / DY. MANAGER
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SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						36	36			
127	AP-111	111	GA-02	SP+0	01°41'50"LT			4335		12 M
						41	41		ROAD	
128	AP-112	112	GA-03	DP+0	34°01'49"LT			4376		12 M
						45	45			
129	AP-113	113	GA-03	DP+0	18°03'23"RT			4421		12 M
						45	45			
130	AP-114	114	GA-03	DP+0	53°30'05"LT			4466		12 M
						40	82			
131		LOC-114/1	*	SP+0						12M+1M ANGLE EXTENTION
						42			11 KV LINE	
132	AP-115	115	***	DP+0	11°06'14"RT			4548		14.5 M
						28	28			
133	AP-116	116	GA-03	DP+0	22°26'57"RT			4576		12 M
						26	26			
134	AP-117	117	GA-03	DP+0	10°02'16"RT			4602		12 M
						27	27			
135	AP-118	118	***	DP+0	20°01'08"LT			4629		14.5 M+1M ANGLE EXTENTION
						25	25		11 KV LINE	
136	AP-119	119	***	DP+0	03°55'47"LT			4654		14.5 M
						26	26		11 KV LINE	
137	AP-120	120	**	SP+0	05°40'51"LT			4680		14.5 M+1M ANGLE EXTENTION
						37	74			
138		LOC-120/1	GA-01	SP+0						12 M
						37				
139	AP-121	121	GA-02	SP+0	04°40'17"RT			4754		12 M
						35	35		ROAD, 11 KV LINE	
140	AP-122	122	GA-03	DP+0	57°03'15"RT			4789		12 M
						43	43			
141	AP-123	123	GA-03	DP+0	13°02'38"RT			4832		12 M
						45	45			
142	AP-124	124	GA-03	DP+0	23°07'17"RT			4877		12 M
						45	45			
143	AP-125	125	GA-03	DP+0	25°21'14"LT			4922		12 M
						45	45			
144	AP-126	126	GA-03	DP+0	14°13'04"LT			4967		12 M
						45	45			
145	AP-127	127	GA-03	DP+0	25°26'40"LT			5012		12 M
						29	29			
146	AP-128	128	GA-02	SP+0	09°08'52"LT			5041		12 M
						27	27			
147	AP-129	129	GA-02	SP+0	08°55'19"LT			5068		12 M
						45	45			

फील्ड इंजीनियर / FIELD ENGINEER
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SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
148	AP-130	130	GA-03	DP+0	05°38'16"LT			5113		12 M
						45	45			
149	AP-131	131	GA-02	SP+0	05°38'16"RT			5158		12 M
						28	28			
150	AP-132	132	GA-03	DP+0	11°22'29"RT			5186		12 M
						29	29			
151	AP-133	133	GA-03	DP+0	12°07'45"RT			5215		12 M
						42	42		11 KV LINE	
152	AP-134	134	GA-02	SP+0	02°59'12"RT			5257		12 M
						30	30			
153	AP-135	135	GA-03	DP+0	16°28'53"RT			5287		12 M
						31	31			
154	AP-136	136	GA-02	SP+0	01°46'50"RT			5318		12 M
						32	32			
155	AP-137	137	GA-02	SP+0	08°00'27"LT			5350		12 M
						31	31			
156	AP-138	138	**	SP+0	08°29'18"LT			5381		14.5 M+1M ANGLE EXTENTION
						42	42		ROAD, 11 KV LINE	
157	AP-139	139	***	DP+0	13°45'39"LT			5423		14.5 M
						33	33			
158	AP-140	140	GA-03	DP+0	26°33'54"LT			5456		12 M
						45	45			
159	AP-141	141	GA-02	SP+0	09°27'44"LT			5501		12 M
						34	34			
160	AP-142	142	GA-02	SP+0	04°53'13"LT			5535		12 M
						36	71			
161		LOC-142/1	GA-01	SP+0						12 M
						35			ROAD, 11 KV LINE	
162	AP-143	143	GA-04	FP+0	71°52'41"RT			5606		12 M
						45	45			
163	AP-144	144	GA-03	DP+0	22°13'03"LT			5651		12 M
						32	32			
164	AP-145	145	GA-02	SP+0	08°44'46"LT			5683		12 M
						31	31			
165	AP-146	146	GA-03	DP+0	12°59'41"LT			5714		12 M
						31	31			
166	AP-147	147	***	DP+0	28°59'33"LT			5745		14.5 M
						30	30			
167	AP-148	148	***	DP+0	26°38'32"LT			5775		14.5 M
						31	31		LT LINE	
168	AP-149	149	***	DP+0	29°13'26"LT			5806		12M+1M ANGLE EXTENTION
						45	45		VRD	
169	AP-150	150	GA-02	SP+0	09°58'28"RT			5851		12 M

Sandip Debnath

TECHNOFAB ENGINEERING LIMITED TRIPURA

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उ.पू.खे., अगरतला/NER, Agartala

24/5/18
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-CHECHUA TO TAIDU

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
170	AP-151	151	**	SP+0	05°00'14"RT	30	30	5881		14.5 M
171	AP-152	152	GA-02	SP+0	02°52'59"RT	33	33	5914	ROAD, 11 KV LINE	12 M
172	AP-153	153	GA-03	DP+0	08°05'56"LT	35	35	5949		12 M
173	AP-154	154	**	SP+0	08°24'31"LT	30	30	5979	ROAD, 11 KV LINE	14.5 M
174		LOC-154/1	*	SP+0		43	85			14.5 M
175	AP-155	155	**	SP+0	01°55'55"LT	42		6064	11 KV LINE	14.5 M
176	AP-156	156	****	FP+0	60°33'41"RT	25	25	6089		14.5 M
177	AP-157	157	**	SP+0	04°24'5"LT	28	28	6117	ROAD, 11 KV LINE	14.5 M+1M ANGLE EXTENTION
178	AP-158	158	GA-03	DP+0	11°21'57"LT	45	45	6162		12 M
179	AP-159	159	GA-03	DP+0	12°29'41"RT	45	45	6207		12 M
180	AP-160	160	GA-03	DP+0	22°37'50"RT	45	45	6252		12 M
181	AP-161	161	GA-03	DP+0	38°58'24"RT	24	24	6276		12 M
182	AP-162	162	GA-02	SP+0	01°17'11"LT	33	33	6309		12 M
183	AP-163	163	***	DP+0	45°43'42"LT	34	34	6343		14.5 M+1M ANGLE EXTENTION
184	AP-164	164	**	SP+0	06°23'48"LT	41	41	6384	VRD, 11 KV LINE	14.5 M+1M ANGLE EXTENTION
185	AP-165	165	GA-02	SP+0	01°46'17"LT	27	27	6411	NALA	12 M
186	AP-166	166	GA-02	SP+0	06°10'13"RT	36	36	6447		12 M
187	AP-167	167	GA-03	DP+0	15°04'07"LT	25	25	6472		12 M
188	AP-168	168	GA-03	DP+0	17°13'39"LT	25	25	6497		12 M
189	AP-169	169	GA-03	DP+0	26°14'30"RT	42	42	6539		12 M
190	AP-170	170	GA-03	DP+0	35°13'18"RT	42	42	6581		12 M

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SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						27	27			
191	AP-171	171	GA-03	DP+0	15°28'51"RT			6608		12 M
						45	45			
192	AP-172	172	***	DP+0	34°01'44"LT			6653		14.5 M
						35	35		11 KV LINE	
193	AP-173	173	****	FP+0	61°57'35"LT			6688		14.5 M+1M ANGLE EXTENTION
						32	32			
194	AP-174	174	***	DP+0	42°04'35"LT			6720		14.5 M
						33	33		ROAD, 11 KV LINE	
195	AP-175	175	****	FP+0	67°17'08"RT			6753		14.5 M+1M ANGLE EXTENTION
						29	29			
196	AP-176	176	GA-03	DP+0	36°11'30"RT			6782		12 M
						31	31		ROAD	
197	AP-177	177	GA-03	DP+0	33°41'24"LT			6813		12 M
						34	34			
198	AP-178	178	GA-03	DP+0	18°49'55"LT			6847		12 M
						34				
199		LOC-178/1	*	SP+0			69			12M+1M ANGLE EXTENTION
						35			11 KV LINE	
200	AP-179	179	***	DP+0	23°01'08"LT			6916		14.5 M
						31	31		ROAD	
201	AP-180	180	GA-02	SP+0	06°16'55"RT			6947		12 M
						30	30			
202	AP-181	181	GA-03	DP+0	18°57'42"RT			6977		12 M
						27	27		ROAD	
203	AP-182	182	GA-03	DP+0	15°13'44"LT			7004		12 M
						45	45			
204	AP-183	183	GA-03	DP+0	34°01'03"RT			7049		12 M
						33	33			
205	AP-184	184	GA-03	DP+0	28°50'02"RT			7082		12 M
						27	27			
206	AP-185	185	GA-02	SP+0	03°12'04"LT			7109		12 M
						21	21			
207	AP-186	186	GA-03	DP+0	27°21'00"RT			7130		12 M
						25	25			
208	AP-187	187	GA-02	SP+0	06°43'11"RT			7155		12 M
						33	33			
209	AP-188	188	GA-03	DP+0	13°25'32"RT			7188		12 M
						37	37			
210	AP-189	189	GA-02	SP+0	05°50'56"RT			7225		12 M
						27	27			
211	AP-190	190	GA-02	SP+0	08°07'48"LT			7252		12 M
						21	21			
212	AP-191	191	GA-02	SP+0	01°21'15"LT			7273		12 M

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						34	34		VRD	
213	AP-192	192	GA-03	DP+0	18°20'08"RT			7307		12 M
						32	32		ROAD	
214	AP-193	193	GA-03	DP+0	34°26'29"RT			7339		12 M
						23	23		11 KV LINE	
215	AP-194	194	GA-03	DP+0	32°13'53"LT			7362		14.5 M
						24	24		11 KV LINE	
216	AP-195	195	GA-03	DP+0	26°45'54"LT			7386		14.5 M
						28	28		LT LINE	
217	AP-196	196	GA-02	SP+0	01°33'31"RT			7414		12M+1M ANGLE EXTENTION
						32	32			
218	AP-197	197	GA-03	DP+0	10°58'34"RT			7446		12 M
						27	27			
219	AP-198	198	GA-02	SP+0	01°07'59"LT			7473		12 M
						21	21			
220	AP-199	199	GA-03	DP+0	10°47'44"LT			7494		12 M
						70	70		RIVER	
221	AP-200	200	GA-03	DP+0	32°36'31"RT			7564		12 M
						45	45			
222	AP-201	201	***	DP+0	23°11'12"RT			7609		12M+1M ANGLE EXTENTION
						27	27		ROAD,LT	
223	AP-202	202	***	DP+0	43°30'09"LT			7636		14.5 M
						39	113			
224		LOC-202/1	GA-01	SP+0						12 M
						37				
225		LOC-202/2	GA-01	SP+0						12 M
						37				
226	AP-203	203	***	SP+0	03°00'46"LT			7749		14.5 M+1M ANGLE EXTENTION
						35	35		11 KV LINE	
227	AP-204	204	***	DP+0	47°19'55"LT			7784		14.5 M+1M ANGLE EXTENTION
						31	31		ROAD, LT LINE	
228	AP-205	205	***	DP+0	19°07'43"RT			7815		12M+1M ANGLE EXTENTION
						43	85			
229		LOC-205/1	GA-01	SP+0						12 M
						42				
230	AP-206	206	GA-03	DP+0	25°23'41"RT			7900		12 M
						27	27		ROAD	
231	AP-207	207	GA-02	SP+0	01°37'19"LT			7927		12 M
						41	82			
232		LOC-207/1	GA-01	SP+0						12 M
						41			VRD	
233	AP-208	208	GA-03	DP+0	13°10'17"LT			8009		12 M

HOLD

HOLD

HOLD due to unsuitable Electrical Clearance

Jantu Pain

TECHNOFAB ENGINEERING LIMITED TRIPURA

FIELD ENGINEER
उ.पू.क्षे., अगरतला/NER, Agartala.

24/5/18
उप प्रबंधक/D
पॉवरग्रिड/P
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						45	45			
234	AP-209	209	GA-03	DP+0	30°50'33"RT			8054		12 M
						28	28			
235	AP-210	210	GA-03	DP+0	26°33'54"RT			8082		12 M
						33	33			
236	AP-211	211	***	DP+0	29°21'28"LT			8115		14.5 M
						31	31		11 KV LINE	
237	AP-212	212	***	DP+0	15°38'32"LT			8146		14.5 M
						32	32			
238	AP-213	213	GA-02	SP+0	06°49'16"RT			8178		12 M
						28	28		ROAD	
239	AP-214	214	GA-03	DP+0	10°10'32"RT			8206		12 M
						43	43			
240	AP-215	215	GA-03	DP+0	25°38'12"LT			8249		12 M

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
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TECHNOFAB ENGINEERING LIMITED TRIPURA

24/5/18

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						45	45			
241	AP-216	216	***	DP+0	22°02'35"RT			8294		14.5 M
						29	29		ROAD, 11 KV LINE	
242	AP-217	217	***	DP+0	11°51'11"RT			8323		14.5 M
						45	45			
243	AP-218	218	***	DP+0	22°40'17"LT			8368		14.5 M+1M ANGLE EXTENTION
						39	39		ROAD, 11 KV LINE	
244	AP-219	219	***	DP+0	18°35'09"RT			8407		14.5 M+1M ANGLE EXTENTION
						45	45			
245	AP-220	220	GA-02	SP+0	07°13'28"LT			8452		12 M
						27	27		ROAD	
246	AP-221	221	***	DP+0	59°43'48"LT			8479		14.5 M
						29	29		ROAD, 11 KV LINE	
247	AP-222	222	***	DP+0	21°56'42"RT			8508		14.5 M
						34	34			
248	AP-223	223	GA-02	SP+0	08°02'24"RT			8542		12 M
						29	29			
249	AP-224	224	GA-02	SP+0	08°22'11"RT			8571		12 M
						45	135		FOOT TRACK	
250		LOC-224/1	GA-01	SP+0						12 M
						45				
251		LOC-224/2	GA-01	SP+0						12 M
						45				
252	AP-225	225	***	DP+0	29°53'32"RT			8706		14.5 M+1M ANGLE EXTENTION
						29	29		ROAD, 11 KV LINE	
253	AP-226	226	**	SP+0	05°09'03"LT			8735		14.5 M
						31	31		VRD, 166KV LINE	
254	AP-227	227	GA-03	DP+0	20°28'20"RT			8766		14.5 M
						32	32			
255	AP-228	228	***	DP+0	18°48'00"RT			8798		12M+1M ANGLE EXTENTION
						45	45			
256	AP-229	229	GA-02	SP+0	07°46'35"LT			8843		12 M
						35	35			
257	AP-230	230	GA-03	DP+0	29°27'30"LT			8878		12 M
						45	45			
258	AP-231	231	GA-03	DP+0	37°39'56"RT			8923		12 M
						25	25			
259	AP-232	232	GA-03	DP+0	41°46'50"RT			8948		12 M
						32	32			
260	AP-233	233	GA-03	DP+0	26°12'13"RT			8980		12 M
						35	35			
261	AP-234	234	GA-03	DP+0	28°10'43"LT			9015		12 M

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उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
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SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						29	29			
262	AP-235	235	GA-03	DP+0	40°14'11"LT			9044		12 M
						45	45			
263	AP-236	236	GA-02	SP+0	03°20'36"LT			9089		12 M
						45	90		ROAD	
264		LOC-236/1	GA-01	SP+0						12 M
						45				
265	AP-237	237	GA-02	SP+0	04°35'19"RT			9179		12 M
						31	31			
266	AP-238	238	GA-03	DP+0	23°34'08"RT			9210		12 M
						33	33			
267	AP-239	239	GA-03	DP+0	30°51'03"LT			9243		12 M
						35	35			
268	AP-240	240	GA-03	DP+0	28°05'05"LT			9278		12 M
						31	31			
269	AP-241	241	GA-02	SP+0	09°44'10"LT			9309		12 M
						33	33		ROAD	
270	AP-242	242	GA-02	SP+0	07°41'46"LT			9342		12 M
						35	35			
271	AP-243	243	GA-03	DP+0	21°26'37"RT			9377		12 M
						33	33			
272	AP-244	244	GA-03	DP+0	45°26'29"RT			9410		12 M
						34	34			
273	AP-245	245	GA-03	DP+0	49°40'48"RT			9444		12 M
						33	33			
274	AP-246	246	GA-03	DP+0	10°45'45"RT			9477		12 M
						31	31			
275	AP-247	247	GA-04	FP+0	61°37'59"LT			9508		12 M
						45	45			
276	AP-248	248	GA-03	DP+0	26°01'47"LT			9553		12 M
						35	35			
277	AP-249	249	GA-03	DP+0	28°22'32"RT			9588		12 M
						30	30			
278	AP-250	250	GA-03	DP+0	42°45'07"LT			9618		12 M
						28	28		ROAD	
279	AP-251	251	GA-02	SP+0	04°56'40"RT			9646		12 M
						45	45			
280	AP-252	252	GA-03	DP+0	05°14'50"RT			9691		12 M
						38	38			
281	AP-253	253	GA-03	DP+0	40°53'16"RT			9729		12 M
						33	33			
282	AP-254	254	**	SP+0	09°04'55"RT			9762		14.5 M

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SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						31	31		11 KV LINE	
283	AP-255	255	GA-03	DP+0	19°54'38"RT			9793		12 M
						33	33			
284	AP-256	256	GA-04	FP+0	67°39'39"LT			9826		12 M
						41	41			
285	AP-257	257	GA-03	DP+0	41°26'14"LT			9867		12 M
						34	34			
286	AP-258	258	GA-03	DP+0	12°54'27"LT			9901		12 M
						28	28			
287	AP-259	259	***	DP+0	18°52'08"LT			9929		14.5 M+1M ANGLE EXTENTION
						29	29		11 KV LINE	
288	AP-260	260	****	FP+0	73°46'23"RT			9958		12M+1M ANGLE EXTENTION
						32	32		ROAD	
289	AP-261	261	GA-03	DP+0	10°22'42"RT			9990		12 M
						25	25			
290	AP-262	262	***	DP+0	25°59'35"LT			10015		14.5 M
						32	32		11 KV LINE	
291	AP-263	263	**	SP+0	04°54'33"LT			10047		14.5 M
						45	45			
292	AP-264	264	GA-03	DP+0	18°19'53"LT			10092		12 M
						27	27		ROAD	
293	AP-265	265	GA-03	DP+0	21°06'45"LT			10119		12 M
						28	28			
294	AP-266	266	***	DP+0	32°48'41"LT			10147		14.5 M
						27	27		11 KV LINE	
295	AP-267	267	***	DP+0	40°40'04"RT			10174		14.5 M+1M ANGLE EXTENTION
						29	29			
296	AP-268	268	GA-02	SP+0	04°09'24"LT			10203		12 M
						30	30			
297	AP-269	269	GA-03	DP+0	18°51'39"LT			10233		12 M
						35	35			
298	AP-270	270	GA-03	DP+0	39°29'24"RT			10268		12 M
						38	74			
299		LOC-270/1	GA-01	SP+0						12 M
						36				
300	AP-271	271	GA-03	DP+0	42°34'43"RT			10342		12 M
						45	45			
301	AP-272	272	GA-02	SP+0	09°01'21"RT			10387		12 M
						35	35		ROAD	
302	AP-273	273	GA-02	SP+0	09°10'02"LT			10422		12 M
						25	25			
303	AP-274	274	GA-03	DP+0	21°53'37"LT			10447		12 M

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SL. NO	AFTER ROUT ALIGNME NT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
304	AP-275	275	GA-02	SP+0	04°51'59"LT	27	27	10474		12 M
305	AP-276	276	GA-04	FP+0	75°59'07"RT	31	31	10505		12 M
306	AP-277	277	GA-03	DP+0	25°06'34"LT	25	25	10530		12 M
307	AP-278	278	GA-03	DP+0	58°17'23"LT	28	28	10558	ROAD	12 M
308	AP-279	279	GA-04	FP+0	64°27'58"LT	27	27	10585	ROAD	12 M
309	AP-280	280	GA-02	SP+0	07°21'47"RT	44	44	10629		12 M
310	AP-281	281	GA-03	DP+0	27°12'22"RT	34	34	10663		12 M
311	AP-282	282	GA-02	SP+0	03°03'44"RT	45	45	10708		12 M
312	AP-283	283	GA-02	SP+0	01°54'33"LT	45	45	10753		12 M
313	AP-284	284	GA-03	DP+0	58°34'40"LT	45	45	10798		12 M
314	AP-285	285	GA-03	DP+0	10°01'59"RT	27	27	10825	ROAD	12 M
315	AP-286	286	**	SP+0	03°27'06"RT	41	41	10866	ROAD	14.5 M
316	AP-287	287	**	DP+0	50°42'38"RT	45	45	10911	ROAD, 11 KV LINE	14.5 M+1M ANGLE EXTENTION
317	AP-288	288	***	DP+0	14°02'10"RT	27	27	10938		14.5 M
318	AP-289	289	***	DP+0	26°33'54"LT	31	31	10969	11 KV LINE	14.5 M
319	AP-290	290	GA-02	SP+0	05°11'40"LT	45	45	11014		12 M
320	AP-291	291	GA-03	DP+0	14°30'49"LT	28	28	11042		12 M
321	AP-292	292	GA-03	DP+0	36°48'39"RT	35	35	11077		12 M
322	AP-293	293	GA-03	DP+0	15°09'40"LT	27	27	11104		12 M
323	AP-294	294	GA-03	DP+0	50°11'01"RT	29	29	11133		12 M
324	AP-295	295	GA-03	DP+0	14°22'35"RT	27	27	11160	ROAD	12 M
						45	45			

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उप प्रबंधक / DY. MANAGER
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325	AP-296	296	GA-03	DP+0	14°31'33"RT			11205		12 M
						37	37			
326	AP-297	297	GA-03	DP+0	21°00'12"RT			11242		12 M
						31	31		ROAD	
327	AP-298	298	GA-03	DP+0	25°25'12"RT			11273		12 M
						29	29			
328	AP-299	299	GA-03	DP+0	29°51'21"LT			11302		12 M
						36	36			
329	AP-300	300	GA-02	SP+0	06°40'14"LT			11338		12 M
						31	31			
330	AP-301	301	GA-03	DP+0	38°14'42"LT			11369		12 M
						45	45			
331	AP-302	302	GA-02	SP+0	03°37'51"RT			11414		12 M
						36	36			
332	AP-303	303	GA-03	DP+0	44°21'57"LT			11450		12 M
						25	25			
333	AP-304	304	GA-02	SP+0	01°35'05"RT			11475		12 M
						32	32			
334	AP-305	305	GA-02	SP+0	06°34'55"LT			11507		12 M
						39	118			
335		LOC-305/1	GA-01	SP+0						12 M
						40				
336		LOC-305/2	GA-01	SP+0						12 M
						39				
337	AP-306	306	GA-03	DP+0	14°55'10"LT			11625		12 M
						28	28			
338	AP-307	307	GA-03	DP+0	20°16'57"RT			11653		12 M
						25	25			
339	AP-308	308	GA-03	DP+0	58°47'11"RT			11678		12 M
						31	31		ROAD	
340	AP-309	309	**	SP+0	05°29'03"LT			11709		14.5 M
						31	31		11 KV LINE	
341	AP-310	310	***	DP+0	14°25'04"LT			11740		14.5 M
						45	45			
342	AP-311	311	GA-03	DP+0	10°49'30"LT			11785		12 M
						30	30			
343	AP-312	312	GA-03	DP+0	28°50'05"LT			11815		12 M
						31	31			
344	AP-313	313	GA-03	DP+0	24°53'56"RT			11846		12 M
						25	25			
345	AP-314	314	GA-03	DP+0	29°10'59"RT			11871		12 M
						29	29			
346	AP-315	315	GA-03	DP+0	33°14'28"LT			11900		12 M

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347	AP-316	316	GA-03	DP+0	41°09'11"RT	28	28	11928		12 M
348	AP-317	317	***	DP+0	44°24'24"LT	27	27	11955		12M+1M ANGLE EXTENTION
349	AP-318	318	**	SP+0	05°32'55"RT	42	42	11997	ROAD, 11 KV LINE	14.5 M+1M ANGLE EXTENTION
350	AP-319	319	GA-03	DP+0	53°39'28"RT	42	42	12039	ROAD	12 M
351		LOC-319/1	GA-01	SP+0		29	60			12 M
352	AP-320	320	GA-02	SP+0	03°15'55"RT	31		12099	ROAD	12 M
353	AP-321	321	GA-03	DP+0	46°09'45"LT	45	45	12144	ROAD	12 M
354	AP-322	322	GA-02	SP+0	06°38'29"RT	28	28	12172		12 M
355	AP-323	323	GA-02	SP+0	03°49'10"LT	28	28	12200		12 M
356	AP-324	324	***	DP+0	22°19'59"LT	27	27	12227	ROAD	14.5 M
357	AP-325	325	***	DP+0	38°04'26"RT	26	26	12253	LT LINE	12M+1M ANGLE EXTENTION
358	AP-326	326	GA-03	DP+0	17°37'48"RT	27	27	12280		12 M
359	AP-327	327	GA-03	DP+0	17°12'31"RT	38	38	12318		12 M
360	AP-328	328	GA-03	DP+0	10°45'48"LT	45	45	12363		12 M
361	AP-329	329	GA-03	DP+0	18°40'34"LT	37	37	12400		12 M
362	AP-330	330	GA-02	SP+0	03°52'18"RT	42	42	12442	66KV LINE	12 M
363	AP-331	331	GA-03	DP+0	42°47'34"LT	45	45	12487		12 M
364	AP-332	332	GA-02	SP+0	03°58'49"LT	31	31	12518		12 M
365	AP-333	333	GA-03	DP+0	40°09'46"RT	23	23	12541		12 M
366	AP-334	334	GA-03	DP+0	30°42'43"RT	24	24	12565	ROAD	12 M
367	AP-335	335	GA-03	DP+0	47°10'29"	27	27	12592		12 M

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368	AP-336	336	GA-03	DP+0	47°07'16"LT	30	30	12622		12 M
369	AP-337	337	GA-03	DP+0	42°21'27"RT	29	29	12651		12 M
370	AP-338	338	GA-03	DP+0	17°11'23"RT	30	30	12681		12 M
371	AP-339	339	GA-03	DP+0	36°23'18"LT	31	31	12712		12 M
372	AP-340	340	GA-03	DP+0	50°05'37"RT	45	45	12757		12 M
373	AP-341	341	GA-03	DP+0	51°36'54"LT	29	29	12786		12 M
374	AP-342	342	GA-04	FP+0	66°42'56"RT	42	42	12828	ROAD	12 M
375		LOC-342/1	GA-01	SP+0		35	67			12 M
376	AP-343	343	GA-04	FP+0	63°28'50"LT	32		12895	ROAD	12 M
377	AP-344	344	GA-04	FP+0	66°30'18"RT	42	42	12937	ROAD	12 M
378	AP-345	345	GA-03	DP+0	49°47'01"LT	27	27	12964		12 M
379	AP-346	346	GA-02	SP+0	02°36'09"LT	36	36	13000		12 M
380	AP-347	347	GA-03	DP+0	57°25'33"LT	42	42	13042	ROAD, 11 KV LINE	12 M
381	AP-348	348	GA-03	DP+0	44°40'08"LT	29	29	13071		12 M
382	AP-349	349	GA-04	FP+0	61°51'30"RT	29	29	13100	11 KV LINE	12 M
383	AP-350	350	GA-02	SP+0	09°16'21"RT	28	28	13128		12 M
384	AP-351	351	GA-03	DP+0	31°00'09"LT	30	30	13158		12 M
385	AP-352	352	GA-03	DP+0	21°43'47"RT	30	30	13188	66 KV LINE	12 M
386	AP-353	353	GA-03	DP+0	38°03'42"RT	29	29	13217		12 M
387	AP-354	354	GA-03	DP+0	27°47'41"LT	28	28	13245		12 M
388	AP-355	355	GA-03	DP+0	16°55'26"LT	45	45	13290	11 KV LINE	12 M
389	AP-356	356	GA-02	SP+0	[illegible]	45	45	13335		12 M

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						42	42			
390	AP-357	357	GA-03	DP+0	23°51'58"RT			13377		12 M
						38	38		11 KV LINE	
391	AP-358	358	GA-04	FP+0	66°55'47"RT			13415		12 M
						30	30		ROAD, 66 KV LINE	
392	AP-359	359	GA-03	DP+0	15°04'07"LT			13445		12 M
						30	30		ROAD	
393	AP-360	360	GA-04	FP+0	68°35'29"LT			13475		12 M
						29	29			
394	AP-361	361	GA-03	DP+0	25°26'01"LT			13504		12 M
						28	28			
395	AP-362	362	GA-03	DP+0	34°22'40"LT			13532		12 M
						34	34		ROAD, 66 KV LINE	
396	AP-363	363	GA-03	DP+0	32°26'01"RT			13566		12 M
						30	30		11 KV LINE	
397	AP-364	364	GA-03	DP+0	36°40'47"RT			13596		12 M
						28	28		ROAD	
398	AP-365	365	GA-03	DP+0	35°22'00"RT			13624		12 M
						29	29		11 KV LINE	
399	AP-366	366	GA-02	SP+0	06°00'32"LT			13653		12 M
						29	29		66 KV LINE	
400	AP-367	367	GA-03	DP+0	14°25'15"LT			13682		12 M
						28	28			
401	AP-368	368	GA-02	SP+0	08°46'40"LT			13710		12 M
						33	33			
402	AP-369	369	GA-03	DP+0	20°41'59"LT			13743		12 M
						45	45			
403	AP-370	370	GA-02	SP+0	06°29'35"RT			13788		12 M
						45	45		ROAD, 2 NOS LT LINE	
404	AP-371	371	GA-04	FP+0	67°39'42"RT			13833		12 M
						41	41		ROAD, LT LINE	
405	AP-372	372	GA-02	SP+0	04°47'35"LT			13874		14.5 M
						35	35			
406	AP-373	373	GA-03	DP+0	19°07'23"LT			13909		12 M
						28	28			
407	AP-374	374	GA-02	SP+0	09°12'09"LT			13937		12 M
						30	30			
408	AP-375	375	GA-03	DP+0	48°28'40"LT			13967		12 M
						30	30			
409	AP-376	376	GA-04	FP+0	60°13'52"LT			13997		12 M
						35	35		ROAD	
410	AP-377	377	GA-03	DP+0	12°56'14"LT			14032		12 M

Sandip Debnath

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

24/1/18
उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						30	30			
411	AP-378	378	GA-03	DP+0	31°38'46"RT			14062		12 M
						30	30			
412	AP-379	379	GA-02	SP+0	05°03'54"RT			14092		12 M
						39	39			
413	AP-380	380	GA-02	SP+0	03°40'17"LT			14131		12 M
						30	30			
414	AP-381	381	GA-03	DP+0	15°08'24"RT			14161		12 M
						31	31			
415	AP-382	382	GA-03	DP+0	13°35'02"RT			14192		12 M
						43	43		ROAD, LT LINE	
416	AP-383	383	GA-03	DP+0	12°02'03"RT			14235		12 M
						45	87			
417		LOC-383/1	GA-01	SP+0						12 M
						42			ROAD	
418	AP-384	384	GA-03	DP+0	22°05'27"LT			14322		12 M
						45	45			
419	AP-385	385	GA-02	SP+0	07°14'43"RT			14367		12 M
						29	29		ROAD	
420	AP-386	386	GA-02	SP+0	09°40'14"RT			14396		12 M
						28	28			
421	AP-387	387	GA-03	DP+0	22°11'44"RT			14424		12 M
						28	28			
422	AP-388	388	GA-03	DP+0	22°24'13"LT			14452		12 M
						42	42			
423	AP-389	389	GA-03	DP+0	13°55'23"LT			14494		12 M
						42	42			
424	AP-390	390	GA-03	DP+0	26°07'07"RT			14536		12 M
						38	38			
425	AP-391	391	GA-03	DP+0	51°34'45"LT			14574		12 M
						45	45			
426	AP-392	392	GA-03	DP+0	33°24'26"LT			14619		12 M
						40	40			
427	AP-393	393	GA-02	SP+0	10°08'41"RT			14659		12 M
						27	27			
428	AP-394	394	GA-03	DP+0	18°07'13"RT			14686		12 M
						25	25			
429	AP-395	395	GA-03	DP+0	23°36'51"RT			14711		12 M
						30	30		ROAD	
430	AP-396	396	GA-03	DP+0	33°41'24"RT			14741		12 M
						35	35		LT LINE	
431	AP-397	397	GA-03	DP+0	34°42'31"LT			14776		12 M
						25	25			
432	AP-398	398	GA-02	SP+0	02°03'36"RT			14801		12 M

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फील्ड इंजीनियर / FIELD ENGINEER
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24/5/19

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						30	30			
433	AP-399	399	GA-03	DP+0	38°28'49"LT			14831		12 M
						29	29			
434	AP-400	400	GA-02	SP+0	06°00'32"RT			14860		12 M
						30	30		ROAD	
435	AP-401	401	GA-03	DP+0	20°43'32"RT			14890		12 M
						41	41			
436	AP-402	402	GA-03	DP+0	17°30'30"RT			14931		12 M
						33	33			
437	AP-403	403	GA-03	DP+0	22°59'55"RT			14964		12 M
						28	28		LT LINE	
438	AP-404	404	GA-03	DP+0	10°47'31"LT			14992		12 M
						41	83		11 KV LINE	
439		LOC-404/1	GA-01	SP+0						12 M
						42				
440	AP-405	405	GA-03	DP+0	11°37'44"LT			15075		12 M
						29	29		ROAD	
441	AP-406	406	GA-03	DP+0	24°37'25"RT			15104		12 M
						24	24			
442	AP-407	407	GA-03	DP+0	16°26'25"RT			15128		12 M
						64	64		RIVER	
443	AP-408	408	GA-03	DP+0	04°10'32"LT			15192		12 M

HOLD

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

Uttam 21/5/18

उत्तम देवनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

TECHNOFAB ENGINEERING LIMITED TRIPURA

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						27	27			
444	AP-409	409	GA-03	DP+0	58°04'53"RT			15219		12 M
						45	45		ROAD	
445	AP-410	410	GA-02	SP+0	05°21'47"LT			15264		12 M
						33	33			
446	AP-411	411	GA-03	DP+0	10°58'50"RT			15297		12 M
						27	27			
447	AP-412	412	GA-02	SP+0	02°13'26"LT			15324		12 M
						27	27			
448	AP-413	413	GA-02	SP+0	05°54'22"LT			15351		12 M
						31	31			
449	AP-414	414	GA-02	SP+0	05°14'20"RT			15382		12 M
						25	25			
450	AP-415	415	GA-02	SP+0	04°23'55"RT			15407		12 M
						29	29			
451	AP-416	416	GA-03	DP+0	20°22'35"LT			15436		12 M
						23	23		LT LINE	
452	AP-417	417	GA-02	SP+0	08°56'34"RT			15459		12 M
						32	32			
453	AP-418	418	GA-03	DP+0	16°51'09"LT			15491		12 M
						30	30		LT LINE	
454	AP-419	419	GA-03	DP+0	25°26'08"LT			15521		12 M
						30	30		ROAD	
455	AP-420	420	GA-02	SP+0	03°48'12"RT			15551		12 M
						29	29		11 KV LINE	
456	AP-421	421	GA-02	SP+0	03°01'35"RT			15580		12 M
						45	45			
457	AP-422	422	GA-03	DP+0	06°43'29"RT			15625		12 M
						33	33			
458	AP-423	423	GA-03	DP+0	25°23'47"RT			15658		12 M
						37	37		66 KV LINE, LT LINE	
459	AP-424	424	GA-02	SP+0	01°36'35"LT			15695		12 M
						40	80			
460		LOC-424/1	GA-01	SP+0						12 M
						40				
461	AP-425	425	GA-02	SP+0	06°37'43"LT			15775		12 M
						29	29		11 KV, LT LINE	
462	AP-426	426	GA-03	DP+0	25°39'06"LT			15804		12 M
						25	25			
463	AP-427	427	GA-03	DP+0	32°45'22"LT			15829		12 M
						40	40			
464	AP-428	428	GA-02	SP+0	05°20'53"LT			15869		12 M

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TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-CHECHUA TO TAIDU

SL. NO	AFTER ROUT ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP NO	PGCIL STANDER POLE TYPE	TYPE OF STRUCTURE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS
						45	45			
465	AP-429	429	GA-03	DP+0	20°36'12"RT			15914		12 M
						42	42		LT LINE	
466	AP-430	430	GA-02	SP+0	07°07'30"RT			15956		12 M
						41	41			
467	AP-431	431	GA-03	DP+0	21°54'11"LT			15997		12 M
						42	42		LT LINE	
468	AP-432	432	GA-03	DP+0	13°13'52"LT			16039		12 M
						23	23			
469	AP-433	433	GA-03	DP+0	40°16'37"LT			16062		12 M
						25	25			
470	AP-434	434	GA-03	DP+0	55°05'30"LT			16087		12 M
						40	80		LT LINE	
471		LOC-434/1	GA-01	SP+0						12 M
						40			66 KV LINE	
472	AP-435	435	GA-03	DP+0	56°26'54"RT			16167		12 M
						23	23		NALA	
473	AP-436	436	GA-03	DP+0	18°44'59"RT			16190		12 M
						25	25			
474	AP-437	437	GA-04	FP+0	00°00'00"			16215		12 M

HOLD

Sanjit Debb

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

24/5/18

उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

TRIPURA

POLE SUMMARY DETAILS

Tripura State Associated with NER Power System Improvement Project (DMS PACKAGE 04)

CC-CS/86-NER/REW-2987/1/G2/NOA - I & II / 7147 & 7148 Dated- 20/01/2017

LINK NAME :-TELIAMURA EXISTING 132/33 KV S/S TO TAIDU

TOTAL LINE LENGTH - 13.041KM

		SL NO.	TYPE OF POLE	POLE HEIGHT	POLE QT.
		1	SP (GA-01)	12 M	44
		3	SP (GA-02)	12 M	81
		4	SP	14.5 M	9
		5	DP(GA-03)	12 M	233
		6	DP	14.5 M	19
		7	FP(GA-04)	12 M	13
		8	FP	14.5 M	2
		9	SP	12 M+ 1M EXTENTION	3
		10	SP	14.5 M+ 1M EXTENTION	10
		11	DP	12 M+ 1M EXTENTION	12
		12	DP	14.5 M+ 1M EXTENTION	10
		13	FP	12 M+ 1M EXTENTION	1
		14	FP	14.5 M+ 1M EXTENTION	1
			TOTAL LOCATION		**438**

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

OWNER:-T.S.E.C.L.
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-TELIAMURA EXISTING 132/33 KV S/S TO TAIDU

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
1	AP-1	AP-1	GA -04	FP+0	00°00'00"						12 M
						22					
2	AP-2	AP-2	****	FP+0	76°45'34"LT		22	22			14.5 M+1M ANGLE EXTENTION
						28			2 NOS 11 KV LINE	1 M STEP DOWN	
3		AP-3	***	DP+0	20°24'36"LT		28	50			14.5 M+1M ANGLE EXTENTION
						29			11 KV LINE	1 M STEP DOWN	
4		AP-4	**	SP+0	07°29'15"LT		29	79			14.5 M+1M ANGLE EXTENTION
						12			11 KV, ROAD	1 M STEP DOWN	
5	AP-3	AP-5	***	DP+0	13°09'27"LT		12	91			14.5 M+1M ANGLE EXTENTION
						26					
6		LOC-5/1	GA-01	SP+0							12 M
						26					
7	AP-5	AP-6	**	SP+0	07°05'45"RT		52	143			14.5 M
						19			LT LINE		
8	AP-6	AP-7	***	DP+0	37°54'15"RT		19	162			14.5 M
						18					
9		AP-8	GA.-2	SP+0	03°23'21"RT		18	180			12 M
						32					
10		AP-9	GA.-2	SP+0	05°59'25"RT		32	212			12 M
						25					
11		AP-10	**	SP+0	05°11'40"LT		25	237			14.5 M+1M ANGLE EXTENTION
						27			LT LINE		
12	AP-7	AP-11	***	DP+0	22°28'46"LT		27	264			12M + 1M ANGLE EXTENTION
						28					
13		AP-12	GA.-3	DP+0	13°39'33"RT		28	292			12 M
						26			ROAD		
14	AP-8	AP-13	GA.-3	DP+0	11°06'40"RT		26	318			12 M
						28					
15		LOC-13/1	GA-01	SP+0							12 M
						28					
16	AP-9	AP-14	GA.-3	DP+0	13°16'55"RT		56	374			12 M
						29					
17		LOC-14/1	GA-01	SP+0			57				12 M
						28					
18	AP-10	AP-15	**	SP+0	03°08'48"LT			431			14.5 M
						27			ROAD, LT LINE		
19		AP-16	****	FP+0	67°36'05"LT		27	458			12M + 1M ANGLE EXTENTION
						25			ROAD		
20	AP-11	AP-17	GA.-2	SP+0	02°02'43"RT		25	483			12 M
						27					
21		AP-18	GA.-3	DP+0	13°47'58"LT		27	510			12 M
						26			LT LINE		
22	AP-12	AP-19	***	DP+0	13°47'58"RT		26	536			12M + 1M ANGLE EXTENTION
						22					
23	AP-13	AP-20	GA.-3	DP+0	57°08'39"RT		22	558			12 M
						26			ROAD		

TECHNO FAB ENGINEERING LIMITED ★ TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

UTTAM DEBNATH
DY. MANAGER
PGCIL/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
24		AP-21	GA.-3	DP+0	12°26'45"RT		26	584			12 M
						27					
25	AP-14	AP-22	GA.-3	DP+0	29°57'16"RT		27	611			12 M
						45					

उत्तम देवनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
26	AP-15	AP-23	***	DP+0	48°45'06"LT		45	656			14.5 M+1M ANGLE EXTENTION
						22			ROAD, 11 KV LINE		
27		AP-24	***	DP+0	12°40'03"LT		22	678			14.5 M
						45					
28		AP-25	GA -04	FP+0	64°09'17"LT		45	723			12 M
						21					
29	AP-16	AP-26	**	SP+0	08°52'04"RT		21	744			14.5 M
						32					
30	AP-17	AP-27	GA.-3	DP+0	25°17'31"RT		32	776			12 M
						22					
31		AP-28	GA.-3	DP+0	16°33'25"LT		22	798			12 M
						24					
32		AP-29	***	DP+0	21°29'47"RT		24	822			14.5 M+1M ANGLE EXTENTION
						26			ROAD, 11 KV LINE		
33		AP-30	***	DP+0	37°50'40"LT		26	848			14.5 M
						19					
34		AP-31	***	DP+0	22°34'21"RT		19	867			14.5 M
						29					
35		LOC-31/1	*	SP+0							14.5 M
						29			11 KV LINE		
36		AP-32	***	DP+0	13°07'31"RT		58	925			14.5 M
						26					
37		AP-33	***	DP+0	19°43'40"RT		26	951			14.5 M
						28			11 KV LINE		
38	AP-19	AP-34	***	DP+0	40°06'47"LT		28	979			12M + 1M ANGLE EXTENTION
						27			ROAD		
39	AP-20	AP-35	GA.-2	SP+0	01°50'51"LT		27	1006			12 M
						40					
40		35/1	GA.-1	SP+0							12 M
						40					
41	AP-21	AP-36	GA.-2	SP+0	00°24'55"LT		80	1086			12 M
						24					
42	AP-22	AP-37	GA.-3	DP+0	17°15'10"RT		24	1110			12 M
						28			400 KV LINE		
43		AP-38	GA.-3	DP+0	10°50'01"RT		28	1138			12 M
						45					
44		AP-39	GA.-2	SP+0	06°29'43"LT		45	1183			12 M
						37					
45		AP-40	GA.-3	DP+0	10°48'00"LT		37	1220			12 M
						41					
46		40/1	GA.-1	SP+0							12 M
						41					
47		AP-41	GA.-2	SP+0	03°27'53"LT		82	1302			12 M
						23					
48	24	AP-42	GA.-3	DP+0	14°02'10"LT		23	1325			12 M
						21			ROAD		

TECHNOFAB ENGINEERING LIMITED TRIPURA

DEBNATH MANAGER POWERGRID Agartala/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
49	AP-25	AP-43	GA.-3	DP+0	12°59'41"LT		21	1346			12 M
						28					
50		AP-44	GA.-3	DP+0	16°10'28"RT		28	1374			12 M
						25					
51		AP-45	GA.-3	DP+0	46°13'08"RT		25	1399			12 M
						26					
52	AP-26	AP-46	GA.-2	SP+0	00°09'44"LT		26	1425			12 M
						27					
53	AP-27	AP-47	***	DP+0	38°31'24"LT		27	1452			14.5 M+1M ANGLE EXTENTION
						27			ROAD, 11 KV LINE		
54		AP-48	***	DP+0	15°54'27"LT		27	1479			14.5 M+1M ANGLE EXTENTION
						16			132 KV LINE		
55	AP-28	AP-49	GA.-3	DP+0	17°33'24"LT		16	1495			12 M
						24					
56	AP-29	AP-50	GA.-3	DP+0	10°16'33"RT		24	1519			12 M
						41					
57		50/1	GA.-1	SP+0							12 M
						41					
58		AP-51	GA.-3	DP+0	26°41'27"RT		82	1601			12 M
						27					
59		LOC-51/1	GA-01	SP+0							12 M
						28					
60	AP-31	AP-52	GA.-3	DP+0	30°09'40"LT		55	1656			12 M
						31					
61		AP-53	GA.-3	DP+0	16°03'36"LT		31	1687			12 M
						27					
62		AP-54	GA.-3	DP+0	57°12'23"RT		27	1714			12 M
						45					
63		AP-55	GA.-3	DP+0	13°53'28"LT		45	1759			12 M
						33					
64	AP-35	AP-56	***	DP+0	20°53'09"RT		33	1792			14.5 M
						23			11 KV LINE		
65		AP-57	***	DP+0	12°48'15"RT		23	1815			14.5 M
						21					
66		AP-58	GA.-2	SP+0	02°58'25"LT		21	1836			12 M
						39					
67		58/1	GA.-1	SP+0							12 M
						39					
68	AP-36	AP-59	GA.-3	DP+0	46°36'01"LT		78	1914			12 M
						42			VALLY		
69		AP-60	GA.-2	SP+0	09°27'44"LT		42	1956			12 M
						45					
70		AP-61	GA.-3	DP+0	38°54'00"RT		45	2001			12 M
						32			ROAD		
71	AP-38	AP-62	GA.-3	DP+0	10°26'35"LT		32	2033			12 M
						26					

TRIPURA ENGINEERING & TECHNO FAB LIMITED

फील्ड इंजीनियर/FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala

24.1.18
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-TELIAMURA EXISTING 132/33 KV S/S TO TAIDU

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
72	AP-39	AP-63	GA.-3	DP+0	19°19'12"LT		26	2059	DAYARAM PARA		12 M
						25					
73		AP-64	GA.-3	DP+0	14°27'36"LT		25	2084			12 M
						45					
74		AP-65	GA.-2	SP+0	03°36'28"RT		45	2129			12 M
						40					
75	AP-40	AP-66	GA.-3	DP+0	11°21'09"RT		40	2169			12 M
						45					
76		AP-67	GA.-2	SP+0	03°02'44"RT		45	2214			12 M
						45			LT LINE		
77		67/1		SP+0							14.5 M
						45					
78	AP-41	AP-68	**	SP+0	06°46'37"LT		90	2304			14.5 M+1M ANGLE EXTENTION
						25			ROAD, 11 KV LINE		
79		AP-69		DP+0	45°32'08"RT		25	2329			14.5 M
						15					
80	AP-42	AP-70	**	SP+0	04°13'41"RT		15	2344			14.5 M+1M ANGLE EXTENTION
						34			LT LINE		
81	AP-43	AP-71	**	SP+0	09°22'32"RT		34	2378			14.5 M+1M ANGLE EXTENTION
						19			LT LINE		
82		AP-72	***	DP+0	44°31'07"RT		19	2439			14.5 M
						22			ROAD, 11 KV LINE		
83		AP-73	***	DP+0	56°52'04"LT		22	2461			14.5 M
						27			ROAD, LT LINE		
84		AP-74	***	DP+0	25°26'01"RT		27	2488			14.5 M
						28					
85	AP-44	AP-75	GA.-3	DP+0	14°35'48"RT		28	2516			12 M
						25					
86	AP-45	AP-76	***	DP+0	12°46'43"RT		25	2541			14.5 M
						28			11 KV, LT LINE		
87		AP-77	***	DP+0	33°28'27"LT		28	2569			14.5 M
						27					
88		AP-78	**	SP+0	04°06'29"RT		27	2596			14.5 M
						27					
89		AP-79	***	DP+0	18°55'29"RT		27	2623			14.5 M+1M ANGLE EXTENTION
						27			11 KV	1 M STEP DOWN	
90	AP-46	AP-80	**	SP+0	03°46'42"RT		27	2650			14.5 M+1M ANGLE EXTENTION
						23					
91	AP-47	AP-81	GA.-2	SP+0	06°25'01"LT		23	2673			12 M
						53					
92	AP-49	AP-82	GA.-2	SP+0	06°49'24"LT		53	2726			12 M
						27					
93		AP-83	GA.-3	DP+0	17°35'33"LT		27	2753			12 M
						19					

ENGINEERING LIMITED TRIPURA

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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
94	AP-53	AP-84	GA.-2	SP+0	08°58'21"LT		19	2772			12 M
						28					
95		AP-85	GA.-2	SP+0	01°06'06"LT		28	2800			12 M
						45					
96		AP-86	**	SP+0	03°12'52"LT		45	2845			14.5 M
						30					
97		LOC-86/1	*	SP+0							14.5 M
						30			LT LINE		
98	AP-48	AP-87	**	SP+0	08°42'53"RT		60	2905			14.5 M+1M ANGLE EXTENTION
						39			11 KV LINE	1 M STEP DOWN	
99		87/1	*	SP+0							14.5 M+1M ANGLE EXTENTION
						39					
100	AP-51	AP-88	***	DP+0	19°49'45"RT		78	2983			14.5 M
						22			ROAD, LT LINE		
101		AP-89	***	DP+0	21°56'14"LT		22	3005			14.5 M
						25			LT LINE		
102		AP-90	**	SP+0	09°10'05"RT		25	3030			14.5 M+1M ANGLE EXTENTION
						38					
103		90/1	GA.-1	SP+0							12 M
						38					
104		AP-91	GA.-2	SP+0	00°08'56"LT		76	3106			12 M
						25					
105	AP-54	AP-92	GA.-3	DP+0	10°29'29"RT		25	3131			12 M
						27					
106		AP-93	**	SP+0	07°03'28"LT		27	3158			12M + 1M ANGLE EXTENTION
						20			ROAD, LT LINE		
107	AP-55	AP-94	***	DP+0	25°21'26"RT		20	3178			12M + 1M ANGLE EXTENTION
						25			ROAD, LT LINE		
108		AP-95	***	DP+0	51°34'14"LT		25	3203			12M + 1M ANGLE EXTENTION
						35					
109		95/1	GA.-1	SP+0							12 M
						35					
110		AP-96	GA.-2	SP+0	01°12'01"LT		70	3273			12 M
						44					
111		96/1	GA.-1	SP+0							12 M
						44					
112		96/2	GA.-1	SP+0							12 M
						44					
113		AP-97	***	DP+0	28°30'58"LT		132	3405			12M + 1M ANGLE EXTENTION
						21			ROAD, LT LINE		
114		AP-98	***	DP+0	26°15'16"RT		21	3426			14.5 M
						31					
115	AP-58	AP-99	***	DP+0	12°43'44"RT		31	3457			14.5 M+1M ANGLE EXTENTION
						33					
116	AP-59	AP-100	GA.-2	SP+0	07°41'42"RT		33	3490			12 M
						45					

TECHNOFAB ENGINEERING LIMITED TRIPURA

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उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
117		AP-101	***	DP+0	25°28'17"RT		45	3535			12M + 1M ANGLE EXTENTION
						17			ROAD, LT LINE		
118		AP-102	***	DP+0	13°18'49"LT		17	3552			12M + 1M ANGLE EXTENTION
						23					
119		AP-103	GA.-2	SP+0	01°08'45"LT		23	3575			12 M
						28					
120	AP-60	AP-104	***	DP+0	14°23'00"LT		28	3603			12M + 1M ANGLE EXTENTION
						27			ROAD, LT LINE		
121		AP-105	***	DP+0	37°10'06"RT		27	3630			12M + 1M ANGLE EXTENTION
						28			LT LINE		
122		AP-106	GA.-3	DP+0	11°37'00"RT		28	3658			12 M
						21					
123	AP-61	AP-107	GA.-3	DP+0	20°38'59"LT		21	3679			12 M
						28			LT LINE		
124		AP-108	***	DP+0	10°06'29"RT		28	3707			12M + 1M ANGLE EXTENTION
						39					
125		108/1	GA.-1	SP+0							12 M
						39			LT LINE		
126	AP-62	AP-109	**	SP+0	07°11'10"LT		78	3785			12M + 1M ANGLE EXTENTION
						31					
127	AP-63	AP-110	GA.-3	DP+0	11°22'38"LT		31	3816			12 M
						27					
128	AP-64	AP-111	GA.-3	DP+0	14°12'24"LT		27	3843			12 M
						35					
129		111/1	GA.-1	SP+0							12 M
						35					
130		111/2	GA.-1	SP+0							12 M
						36					
131	AP-65	AP-112	GA.-3	DP+0	04°10'25"RT		106	3949			12 M
						37					
132		112/1	GA.-1	SP+0							12 M
						37					
133	AP-66	AP-113	GA.-3	DP+0	12°27'34"RT		74	4023			12 M
						22			ROAD		
134		AP-114	GA.-3	DP+0	31°15'22"LT		22	4045			12 M
						37					
135		114/1	GA.-1	SP+0							12 M
						37					
136	AP-67	AP-115	GA.-2	SP+0	04°49'33"RT		74	4119			12 M
						26			ROAD		
137	AP-68	AP-116	GA.-3	DP+0	25°24'04"RT		26	4145			12 M
						23					
138	AP-69	AP-117	GA.-2	SP+0	07°33'23"LT		23	4168			12 M
						26					

TECHNOFAB ENGINEERING LIMITED TRIPURA

FIELD ENGINEER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

OWNER:-T.S.E.C.L
CLIENT:-PGCIL

DETAIL SURVEY POLE SECDULE

LINK NAME:-TELIAMURA EXISTING 132/33 KV S/S TO TAIDU

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
139		AP-118	GA.-3	DP+0	18°04'44"LT		26	4194			12 M
						43					
140		AP-119	GA.-2	SP+0	00°50'02"LT		45	4241			12 M
						35					
141		119/1	*	SP+0							14.5 M+1M ANGLE EXTENTION
						35			11 KV LINE		
142		AP-120	***	DP+0	12°46'43"LT		70	4311			14.5 M+1M ANGLE EXTENTION
						38					
143		120/1	GA.-1	SP+0							12 M
						38					
144		AP-121	GA.-3	DP+0	38°52'58"RT		76	4387			12 M
						21			ROAD		
145	AP-70	AP-122	GA.-2	SP+0	03°32'37"LT		21	4408			12 M
						21			ROAD		
146		AP-123	GA.-3	DP+0	25°42'36"RT		21	4429			12 M
						23					
147	AP-71	AP-124	GA.-2	SP+0	01°44'09"RT		23	4452			12 M
						23					
148	AP-72	AP-125	GA.-3	DP+0	11°31'05"LT		23	4475			12 M
						21					
149		AP-126	GA -04	FP+0	65°47'49"LT		21	4496			12 M
						26					
150		AP-127	GA.-2	SP+0	09°22'42"LT		26	4522			12 M
						45					
151		AP-128	GA.-3	DP+0	23°28'39"LT		45	4570			12 M
						21					
152		AP-129	GA.-2	SP+0	03°03'59"LT		21	4588			12 M
						25					
153		AP-130	GA.-3	DP+0	18°46'30"RT		25	4613			12 M
						30					
154	AP-73	AP-131	GA.-3	DP+0	28°32'50"RT		30	4643			12 M
						24					
155	AP-74	AP-132	GA.-3	DP+0	26°01'18"RT		24	4667			12 M
						38					
156		132/1	GA.-1	SP+0							12 M
						38					
157	AP-75	AP-133	GA.-3	DP+0	22°47'17"LT		76	4743			12 M
						22					
158		AP-134	GA.-3	DP+0	10°30'18"RT		22	4765			12 M
						21					
159	AP-76	AP-135	GA.-3	DP+0	15°41'58"LT		21	4786			12 M
						40					
160		135/1	GA.-1	SP+0							12 M
						40					

TECHNOFAB ENGINEERING LIMITED TRIPURA

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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
161	AP-77	AP-136	GA.-3	DP+0	15°39'45"RT		80	4866			12 M
						37					
162		136/1	GA.-1	SP+0							12 M
						37					
163	AP-78	AP-137	GA.-2	SP+0	09°42'50"RT		74	4940			12 M
						27					
164	AP-79	AP-138	GA.-3	DP+0	21°24'17"RT		27	4967			12 M
						28					
165		AP-139	GA.-3	DP+0	25°38'28"LT		28	4995			12 M
						29					
166		AP-140	GA.-2	SP+0	09°05'25"LT		29	5024			12 M
						30					
167		AP-141	GA.-3	DP+0	14°24'30"LT		30	5054			12 M
						45					
168	AP-80	AP-142	GA.-3	DP+0	21°20'15"RT		45	5099			12 M
						45					
169	AP-82	AP-143	GA.-2	SP+0	07°21'20"RT		45	5144			12 M
						30					
170	AP-83	AP-144	GA.-3	DP+0	12°01'18"RT		30	5174			12 M
						37					
171		144/1	GA.-1	SP+0							12 M
						37					
172		AP-145	GA -04	FP+0	85°46'06"LT		74	5248			12 M
						30					
173	AP-84	AP-146	GA.-3	DP+0	52°37'09"LT		30	5278			12 M
						45					
174		146/1	GA.-1	SP+0							12 M
						45					
175	AP-85	AP-147	GA -04	FP+0	64°51'41"RT		98	5372			12 M
						27					
176	AP-86	AP-148	GA.-3	DP+0	41°33'59"RT		27	5397			12 M
						20					
177		AP-149	GA.-3	DP+0	14°44'37"RT		20	5417			12 M
						25					
178	AP-88	AP-150	GA.-3	DP+0	11°18'36"RT		25	5442			12 M
						45					
179		AP-151	GA.-3	DP+0	13°41'45"LT		45	5488			12 M
						25					
180		151/1	GA.-1	SP+0							12 M
						24					
181		AP-152	GA.-3	DP+0	12°40'57"LT		49	5536			12 M
						27					
182	AP-89	AP-153	GA.-2	SP+0	01°15'56"RT		27	5563			12 M
						45					

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
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उ.पू.क्षे., अगरतला / NER, Agartala.

उत्तम / UTTAM SETH
उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.क्षे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
183	AP-90	AP-154	GA.-3	DP+0	11°18'36"RT		45	5608			12 M
						21					
184		AP-155	GA.-3	DP+0	18°22'07"RT		21	5629			12 M
						26					
185	AP-91	AP-156	GA.-3	DP+0	17°35'22"RT		26	5655			12 M
						35					
186		AP-157	GA.-3	DP+0	10°36'43"LT		35	5690			12 M
						26					
187		AP-158	GA.-3	DP+0	28°57'36"LT		26	5716			12 M
						27					
188	AP-92	AP-159	GA.-3	DP+0	17°37'20"LT		27	5743			12 M
						34					
189		159/1	GA.-1	SP+0							12 M
						34					
190	AP-93	AP-160	GA.-3	DP+0	30°48'19"RT		68	5811			12 M
						25			ROAD		
191		AP-161	GA.-3	DP+0	20°42'36"RT		25	5836			12 M
						26					
192		AP-162	GA.-2	SP+0	02°11'31"RT		26	5862			12 M
						24					
193	AP-97	AP-163	GA.-3	DP+0	10°05'28"LT		24	5886			12 M
						30					
194		AP-164	GA.-3	DP+0	33°41'24"LT		30	5916			12 M
						28					
195	AP-98	AP-165	GA.-2	SP+0	04°02'50"LT		28	5944			12 M
						45					
196		AP-166	GA.-2	SP+0	02°33'34"RT		45	5989			12 M
						19			ROAD		
197	AP-99	AP-167	GA.-3	DP+0	16°35'06"RT		19	6008			12 M
						45					
198		AP-168	GA.-3	DP+0	20°30'03"LT		45	6053			12 M
						27					
199	AP-100	AP-169	GA.-3	DP+0	15°46'39"LT		27	6080			12 M
						21					
200		AP-170	GA.-3	DP+0	15°29'35"LT		21	6101			12 M
						28					
201		AP-171	GA.-3	DP+0	18°42'19"RT		28	6129			12 M
						28					
202	AP-101	AP-172	GA.-3	DP+0	24°58'37"RT		28	6157			12 M
						37					
203		172/1	GA.-1	SP+0							12 M
						37					
204	AP-102	AP-173	GA.-3	DP+0	24°58'37"RT		74	6231			12 M
						27					

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर/FIELD ENGINEER
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उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
205		AP-174	GA.-2	SP+0	07°54'41"LT		27	6258			12 M
						35					
206		174/1	GA.-1	SP+0							12 M
						35					
207	AP-104	AP-175	GA.-3	DP+0	33°27'02"RT		70	6328			12 M
						32					
208	AP-105	AP-176	GA.-3	DP+0	24°10'12"LT		32	6360			12 M
						18					
209		AP-177	GA.-3	DP+0	30°35'14"RT		18	6378			12 M
						35					
210		177/1	GA.-1	SP+0							12 M
						35					
211		177/2	GA.-1	SP+0							12 M
						35					
212	AP-108	AP-178	GA.-3	DP+0	26°38'32"LT		105	6483			12 M
						22					
213	AP-109	AP-179	GA.-3	DP+0	17°49'08"LT		22	6505			12 M
						37			ROAD		
214	AP-110	AP-180	GA.-3	DP+0	11°45'32"LT		37	6542			12 M
						27					
215		AP-181	GA.-2	SP+0	00°33'49"LT		27	6569			12 M
						23			ROAD		
216		AP-182	GA.-3	DP+0	36°02'51"RT		23	6592			12 M
						32					
217		182/1	GA.-1	SP+0							12 M
						32					
218	AP-113	AP-183	GA.-3	DP+0	17°06'10"RT		64	6656			12 M
						25					
219		183/1	GA.-1	SP+0							12 M
						25					
220	AP-114	AP-184	GA.-3	DP+0	26°22'31"LT		50	6706			12 M
						43					
221		AP-185	GA.-2	SP+0	05°45'05"LT		43	6749			12 M
						26					
222	AP-115	AP-186	GA.-2	SP+0	06°49'39"LT		26	6775			12 M
						23					
223	AP-116	AP-187	GA.-3	DP+0	14°26'01"LT		23	6798			12 M
						21					
224		AP-188	GA.-3	DP+0	12°47'12"RT		21	6819			12 M
						27					
225	AP-117	AP-189	GA.-3	DP+0	13°52'18"LT		27	6846			12 M
						25			66 KV LINE		
226	AP-118	AP-190	GA.-3	DP+0	16°36'08"LT		25	6871			12 M
						25					
227	AP-119	AP-191	GA.-3	DP+0	34°40'26"RT		25	6896			12 M
						34					

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID

उत्तम कुमार/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
228		AP-192	GA.-2	SP+0	02°21'06"RT		34	6930			12 M
						26			ROAD		
229	AP-120	AP-193	GA.-3	DP+0	45°25'17"RT		26	6956			12 M
						22					
230		AP-194	GA.-3	DP+0	21°57'16"LT		22	6978			12 M
						19					
231	AP-121	AP-195	GA.-3	DP+0	11°20'42"LT		19	6997			12 M
						17					
232		AP-196	GA.-3	DP+0	52°05'24"LT		17	7014			12 M
						17			ROAD		
233	AP-122	AP-197	GA.-3	DP+0	22°53'45"RT		17	7031			12 M
						26					
234		AP-198	GA.-3	DP+0	23°29'49"RT		26	7057			12 M
						25					
235		LOC-198/1	GA-01	SP+0							12 M
						26					
236		AP-199	GA.-3	DP+0	54°00'54"RT		51	7108			12 M
						35					
237	AP-124	AP-200	GA.-3	DP+0	31°23'25"RT		35	7143			12 M
						24					
238	AP-125	AP-201	GA.-3	DP+0	10°32'36"RT		24	7167			12 M
						27					
239		AP-202	GA.-3	DP+0	17°06'10"RT		27	7194			12 M
						24			66 KV LINE		
240		AP-203	GA.-3	DP+0	38°39'35"RT		24	7218			12 M
						32					
241	AP-127	AP-204	GA -04	FP+0	80°17'36"LT		32	7250			12 M

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पॉवरग्रिड / P...

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						24			ROAD		
242		AP-205	GA.-3	DP+0	51°32'47"LT		24	7274			12 M
						36					
243	AP-130	AP-206	GA.-3	DP+0	27°23'58"LT		36	7310			12 M
						26					
244	AP-131	AP-207	GA.-3	DP+0	37°37'10"LT		26	7336			12 M
						27					
245		AP-208	GA.-3	DP+0	14°12'24"LT		27	7363			12 M
						30			66 KV LINE		
246	AP-132	AP-209	GA.-3	DP+0	12°57'02"LT		30	7393			12 M
						32					
247		AP-210	GA.-3	DP+0	25°00'35"RT		32	7425			12 M
						15					
248	AP-133	AP-211	GA.-3	DP+0	44°31'31"RT		15	7440			12 M
						34			ROAD		
249	AP-134	AP-212	GA.-3	DP+0	49°01'10"RT		34	7474			12 M
						30					
250		AP-213	GA.-3	DP+0	53°34'40"LT		30	7504			12 M
						34					
251		AP-214	GA.-2	SP+0	04°54'57"RT		34	7538			12 M
						23			ROAD		
252		AP-215	GA.-2	SP+0	04°12'46"RT		23	7561			12 M
						19					
253		AP-216	GA.-3	DP+0	50°18'52"LT		19	7580			12 M
						19					
254	AP-136	AP-217	GA.-3	DP+0	17°35'33"RT		19	7599			12 M
						27			ROAD		
255		AP-218	GA.-3	DP+0	31°54'17"RT		27	7626			12 M
						40					
256	AP-137	AP-219	GA.-3	DP+0	39°35'36"RT		40	7666			12 M
						20			ROAD		
257		AP-220	GA.-2	SP+0	07°13'15"LT		20	7686			12 M
						22					
258		AP-221	GA.-2	SP+0	02°41'23"RT		22	7708			12 M
						27					
259	AP-140	AP-222	GA.-3	DP+0	21°44'27"LT		27	7735			12 M
						26					
260		AP-223	GA.-3	DP+0	44°17'02"RT		26	7761			12 M
						26					
261		AP-224	GA.-2	SP+0	03°03'59"LT		26	7787			12 M
						26					
262		AP-225	GA.-3	DP+0	41°33'41"LT		26	7813			12 M
						25					
263		AP-226	GA.-2	SP+0	03°54'16"LT		25	7838			12 M

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उत्तम देबनाथ / UTTAM DEBNATH
उप प्रबंधक / DY. MANAGER
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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						27					
264		AP-227	GA.-3	DP+0	30°44'21"RT		27	7865			12 M
						26					
265	AP-141	AP-228	GA.-3	DP+0	51°26'05"LT		26	7891			12 M
						25					
266		AP-229	GA.-3	DP+0	22°01'23"LT		25	7916			12 M
						27			ROAD		
267	AP-142	AP-230	GA.-3	DP+0	35°54'51"RT		27	7943			12 M
						27					
268	AP-143	AP-231	GA.-2	SP+0	01°21'45"LT		27	7970			12 M
						33					
269	AP-144	AP-232	GA.-3	DP+0	44°12'55"LT		33	8003			12 M
						26					
270	AP-145	AP-233	GA.-3	DP+0	47°37'54"RT		26	8029			12 M
						26					
271	AP-146	AP-234	GA.-3	DP+0	36°10'47"RT		26	8055			12 M
						35					
272		AP-235	GA.-3	DP+0	19°32'12"RT		35	8090			12 M
						45					
273	AP-147	AP-236	GA.-3	DP+0	28°59'56"LT		45	8135			12 M
						38					
274	AP-148	AP-237	GA.-3	DP+0	55°15'29"RT		38	8173			12 M
						32					
275	AP-149	AP-238	GA.-3	DP+0	38°35'23"LT		32	8205			12 M
						28					
276	AP-150	AP-239	GA.-3	DP+0	25°38'28"LT		28	8233			12 M
						25					
277	AP-151	AP-240	GA.-3	DP+0	51°20'25"LT		25	8258			12 M
						26					
278	AP-152	AP-241	GA.-3	DP+0	53°27'41"RT		26	8284			12 M
						27					
279	AP-153	AP-242	GA.-3	DP+0	34°35'32"LT		27	8311			12 M
						26					
280		AP-243	GA.-3	DP+0	28°03'11"LT		26	8337			12 M
						26					
281	AP-154	AP-244	GA.-2	SP+0	08°55'11"LT		26	8363			12 M
						26			ROAD		
282		AP-245	GA.-3	DP+0	33°05'05"LT		26	8389			12 M
						28					
283		AP-246	GA.-3	DP+0	46°13'08"RT		28	8417			12 M
						27					
284	AP-155	AP-247	GA.-3	DP+0	12°09'54"RT		27	8444			12 M
						45					
285	AP-156	AP-248	GA.-3	DP+0	41°25'07"RT		45	8489			12 M

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फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड

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उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						21					
286	AP-157	AP-249	GA.-3	DP+0	26°13'30"RT		21	8510			12 M
						25					
287	AP-158	AP-250	GA.-3	DP+0	14°11'44"RT		25	8535			12 M
						28					
288	AP-159	AP-251	GA.-3	DP+0	37°41'39"LT		28	8563			12 M
						24					
289		AP-252	GA.-2	SP+0	02°07'16"LT		24	8587			12 M
						27			ROAD		
290		AP-253	GA.-3	DP+0	36°40'10"RT		27	8614			12 M
						37					
291		253/1	GA.-1	SP+0							12 M
						37					
292	AP-162	AP-254	GA.-2	SP+0	05°04'21"LT		74	8688			12 M
						26					
293	AP-163	AP-255	GA.-3	DP+0	18°15'02"RT		26	8714			12 M
						15			ROAD		
294		AP-256	GA.-3	DP+0	39°27'02"LT		15	8729			12 M
						28					
295		LOC-256/1	GA-01	SP+0							12 M
						28					
296		AP-257	GA.-3	DP+0	17°56'09"LT		56	8785			12 M
						24					
297		257/1	GA.-1	SP+0							12 M
						24					
298		AP-258	GA.-2	SP+0	00°12'21"LT		48	8833			12 M
						23					
299		AP-259	GA.-3	DP+0	25°30'29"RT		23	8856			12 M
						27					
300		AP-260	GA.-3	DP+0	18°07'54"LT		27	8883			12 M
						45					
301		AP-261	GA.-3	DP+0	14°15'28"RT		45	8928			12 M
						25					
302		AP-262	GA.-3	DP+0	15°55'52"RT		25	8953			12 M
						45					
303		AP-263	GA.-3	DP+0	18°46'10"RT		45	8998			12 M
						28					
304		AP-264	GA.-3	DP+0	13°59'51"LT		28	9026			12 M
						26					
305		AP-265	GA.-3	DP+0	21°48'05"LT		26	9052			12 M
						35					
306		265/1	GA.-1	SP+0							12 M
						35					
307		AP-266	GA.-3	DP+0	20°07'56"LT		70	9122			12 M
						24					
308		266/1	GA.-1	SP+0							12 M

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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						24					
309	AP-166	AP-267	GA.-3	DP+0	11°57'07"RT		48	9170			12 M
						23					
310		AP-268	GA.-2	SP+0	01°05'12"RT		23	9193			12 M
						45					
311		AP-269	GA.-2	SP+0	08°32'46"LT		45	9238			12 M
						26					
312	AP-167	AP-270	GA.-3	DP+0	24°16'45"LT		26	9264			12 M
						29			ROAD		
313		AP-271	GA.-3	DP+0	47°41'02"RT		29	9293			12 M
						25					
314	AP-168	AP-272	GA.-2	SP+0	09°07'04"RT		25	9318			12 M
						26					
315		AP-273	GA.-3	DP+0	15°47'04"LT		26	9344			12 M
						25					
316	AP-169	AP-274	GA.-2	SP+0	9°31'56"LT		25	9369			12 M
						26					
317		AP-275	GA.-3	DP+0	25°16'19"RT		26	9395			12 M
						28					
318		AP-276	GA.-3	DP+0	20°02'35"LT		28	9423			12 M
						23					
319		AP-277	GA.-3	DP+0	54°04'05"LT		23	9446			12 M
						25					
320	AP-170	AP-278	GA.-2	SP+0	07°58'36"RT		25	9471			12 M
						26			ROAD		
321	AP-171	AP-279	GA.-2	SP+0	04°39'20"LT		26	9497			12 M
						45					
322		AP-280	GA.-3	DP+0	17°45'19"RT		45	9542			12 M
						28					
323	AP-172	AP-281	GA.-3	DP+0	10°48'59"RT		28	9570			12 M
						20			ROAD		
324	AP-173	AP-282	GA.-3	DP+0	29°21'52"RT		20	9590			12 M
						24					
325		AP-283	GA.-3	DP+0	25°11'05"RT		24	9614			12 M
						23			ROAD		
326		AP-284	GA.-3	DP+0	26°53'53"LT		23	9637			12 M
						45					
327	AP-174	AP-285	GA.-3	DP+0	14°59'24"RT		45	9682			12 M
						23					
328		AP-286	GA.-3	DP+0	20°06'56"RT		23	9705			12 M
						27					
329		AP-287	GA.-3	DP+0	13°11'18"LT		27	9732			12 M
						28					
330	AP-175	AP-288	GA.-3	DP+0	31°58'37"RT		28	9760			12 M

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						23					
331		AP-289	GA.-2	SP+0	01°23'50"RT		23	9783			12 M
						32					
332		AP-290	GA.-3	DP+0	29°32'20"LT		32	9815			12 M
						22					
333		AP-291	GA.-3	DP+0	23°11'55"LT		22	9837			12 M
						45					
334		AP-292	GA.-2	SP+0	04°38'02"RT		45	9882			12 M
						45					
335	AP-177	AP-293	GA.-3	DP+0	18°59'55"RT		45	9927			12 M
						21					
336		AP-294	GA.-3	DP+0	10°32'30"RT		21	9948			12 M
						26					
337		AP-295	GA -04	FP+0	67°22'48"LT		26	9974			12 M
						26			ROAD		
338	AP-178	AP-296	GA.-3	DP+0	13°51'46"LT		26	10000			12 M
						45					
339		AP-297	GA.-3	DP+0	10°01'34"LT		45	10045			12 M
						25					
340		AP-298	GA.-3	DP+0	19°49'56"RT		25	10070			12 M
						28			ROAD		
341		AP-299	GA.-2	SP+0	08°03'55"RT		28	10098			12 M
						45					
342		AP-300	GA.-2	SP+0	06°26'04"LT		45	10143			12 M
						45					
343		AP-301	GA.-2	SP+0	03°28'17"RT		45	10188			12 M
						28					
344		AP-302	GA -04	FP+0	75°44'08"RT		28	10216			12 M
						29					
345	AP-181	AP-303	GA.-2	SP+0	02°43'35"LT		29	10245			12 M
						22			ROAD		
346	AP-182	AP-304	GA.-2	SP+0	05°37'03"RT		22	10267			12 M
						45					
347	AP-184	AP-305	GA.-2	SP+0	05°02'20"LT		45	10312			12 M
						33					
348		AP-306	GA.-3	DP+0	19°00'49"LT		33	10345			12 M
						23					
349	AP-185	AP-307	GA.-2	SP+0	08°23'57"LT		23	10368			12 M
						34					
350		AP-308	GA.-2	SP+0	02°24'54"RT		34	10402			12 M
						45					
351	AP-186	AP-309	GA.-3	DP+0	22°48'02"LT		45	10447			12 M
						25					
352		AP-310	GA.-3	DP+0	24°20'43"LT		25	10472			12 M

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.खे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						40					
353		310/1	GA.-1	SP+0							12 M
						40					
354		AP-311	GA.-3	DP+0	19°39'14"RT		80	10552			12 M
						26					
355	AP-188	AP-312	GA.-3	DP+0	16°51'06"RT		26	10578			12 M
						19			ROAD		
356		AP-313	GA.-3	DP+0	43°03'07"LT		19	10597			12 M
						27					
357		AP-314	GA.-3	DP+0	59°40'04"LT		27	10624			12 M
						20			ROAD		
358	AP-189	AP-315	GA.-3	DP+0	27°00'25"RT		20	10644			12 M
						26					
359		AP-316	GA.-2	SP+0	09°27'44"RT		26	10670			12 M
						28					
360	AP-190	AP-317	GA.-3	DP+0	50°11'40"LT		28	10698			12 M
						22					
361		AP-318	GA.-3	DP+0	30°20'36"LT		22	10720			12 M
						17					
362		AP-319	GA -04	FP+0	64°20'54"RT		17	10737			12 M
						23					
363		AP-320	GA.-3	DP+0	51°19'24"RT		23	10760			12 M
						23					
364		AP-321	GA.-3	DP+0	11°54'40"RT		23	10783			12 M
						28					
365		AP-322	GA.-2	SP+0	04°47'51"RT		28	10811			12 M
						27					
366	AP-191	AP-323	GA.-3	DP+0	34°07'44"RT		27	10838			12 M
						45					
367		AP-324	GA.-3	DP+0	37°15'36"RT		45	10883			12 M
						28					
368	AP-193	AP-325	GA.-3	DP+0	34°46'48"LT		28	10911			12 M
						26					
369		AP-326	GA.-3	DP+0	12°51'29"RT		26	10937			12 M
						25					
370	AP-194	AP-327	GA.-3	DP+0	20°46'20"LT		25	10962			12 M
						31					
371	AP-195	AP-328	GA.-2	SP+0	07°59'06"LT		31	10993			12 M
						45					
372		AP-329	GA.-3	DP+0	47°42'13"RT		45	11038			12 M
						22			ROAD		
373	AP-196	AP-330	GA.-3	DP+0	40°02'20"LT		22	11060			12 M
						21					
374		AP-331	GA.-3	DP+0	28°38'08"LT		21	11081			12 M

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24/5/18

उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						26					
375	AP-197	AP-332	GA.-2	SP+0	06°34'55"LT		26	11107			12 M
						21			ROAD		
376		AP-333	GA.-3	DP+0	12°59'41"LT		21	11128			12 M
						27					
377		AP-334	GA.-3	DP+0	10°12'14"LT		27	11155			12 M
						25					
378	AP-198	AP-335	GA.-3	DP+0	22°39'23"LT		25	11180			12 M
						45					
379		AP-336	GA.-3	DP+0	25°37'49"RT		45	11225			12 M
						20					
380	AP-200	AP-337	GA.-3	DP+0	24°47'56"RT		20	11245			12 M
						25					
381	AP-201	AP-338	GA.-3	DP+0	47°50'18"LT		25	11270			12 M
						23					
382		AP-339	GA.-3	DP+0	16°40'02"LT		23	11293			12 M
						22					
383		AP-340	GA.-3	DP+0	44°40'35"RT		22	11315			12 M
						25					
384	AP-203	AP-341	GA.-3	DP+0	25°07'15"RT		25	11340			12 M
						45					
385		AP-342	GA.-3	DP+0	29°07'31"RT		45	11385			12 M
						27			ROAD		
386	AP-204	AP-343	GA.-2	SP+0	05°18'03"LT		27	11412			12 M
						29					
387		AP-344	GA.-3	DP+0	15°56'43"LT		29	11441			12 M
						26					
388		AP-345	GA.-2	SP+0	01°59'26"RT		26	11467			12 M
						26					
389		AP-346	GA.-2	SP+0	04°52'31"RT		26	11493			12 M
						30					
390	AP-205	AP-347	GA.-3	DP+0	25°55'18"LT		30	11523			12 M
						45					
391		AP-348	GA.-3	DP+0	11°46'00"LT		45	11568			12 M
						30			ROAD		
392		AP-349	GA.-3	DP+0	16°15'37"LT		30	11598			12 M
						27					
393	AP-206	AP-350	GA.-3	DP+0	04°41'55"LT		27	11625			12 M
						27					
394	AP-207	AP-351	GA.-3	DP+0	13°22'17"LT		27	11652			12 M
						28					
395	AP-208	AP-352	GA.-3	DP+0	34°19'49"RT		28	11680			12 M
						27					
396	AP-209	AP-353	GA.-3	DP+0	34°30'31"RT		27	11707			12 M
						27					
397		LOC-353/1	GA-01	SP+0							12 M

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
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21/5/18
उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक/DY. MANAGER
पॉवरग्रिड/POWERGRID
उ.पू.क्षे., अगरतला/NER, Agartala.

SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						27					
398		AP-354	GA.-3	DP+0	23°50'19"LT		54	11761			12 M
						26					
399	AP-211	AP-355	GA -04	FP+0	78°45'31"LT		26	11787			12 M
						25					
400	AP-212	AP-356	GA.-2	SP+0	09°06'09"RT		25	11812			12 M
						29					
401		AP-357	GA -04	FP+0	76°06'00"RT		29	11841			12 M
						28			ROAD, LT LINE		
402	AP-213	AP-358	GA.-3	DP+0	51°40'51"LT		28	11869			12 M
						26			ROAD		
403	AP-215	AP-359	GA.-3	DP+0	20°33'56"LT		26	11895			12 M
						27					
404		AP-360	GA.-3	DP+0	19°47'56"LT		27	11922			12 M
						45					
405		AP-361	GA.-2	SP+0	04°14'11"RT		45	11967			12 M
						27					
406		AP-362	GA.-3	DP+0	56°59'45"RT		27	11994			12 M
						29					
407		LOC-362/1	GA-01	SP+0							12 M
						29					
408	AP-217	AP-363	GA.-3	DP+0	53°47'04"RT		58	12052			12 M
						20					
409	AP-218	AP-364	GA.-3	DP+0	30°41'46"RT		20	12072			12 M
						45					
410	AP-219	AP-365	GA.-2	SP+0	09°41'24"LT		45	12117			12 M
						45					
411		365/1	GA.-1	SP+0							12 M
						45					
412	AP-220	AP-366	GA.-2	SP+0	04°50'14"LT		90	12207			12 M
						45					
413		AP-367	GA.-3	DP+0	40°04'04"RT		45	12252			12 M
						29			ROAD		
414		AP-368	GA.-3	DP+0	23°59'21"LT		29	12281			12 M
						45					
415	AP-223	AP-369	GA.-3	DP+0	40°20'14"LT		45	12326			12 M
						29					
416	AP-224	AP-370	GA -04	FP+0	63°23'47"LT		29	12355			12 M
						28					
417		AP-371	GA.-2	SP+0	01°32'38"LT		28	12383			12 M
						27					
418	AP-225	AP-372	GA.-2	SP+0	06°59'43"LT		27	12410			12 M
						24			ROAD		
419		AP-373	GA.-3	DP+0	49°52'47"RT		24	12434			12 M
						39					
420		373/1	GA.-1	SP+0							12 M

TECHNOFAB ENGINEERING LIMITED TRIPURA

फील्ड इंजीनियर / FIELD ENGINEER
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SL. NO	AFTER ROUTE ALIGNMENT AP. NO	AFTER DETAIL SURVEY AP. NO	PGCIL STANDARD POLE TYPE	TYPE OF POLE	ANGLE OF DEVIATION	SPAN	SEC. LENGTH	CUMLTV. LENGTH	CROSSING	REMARKS	POLE HEIGHT
						39					
421	AP-227	AP-374	GA.-3	DP+0	11°28'06"RT		78	12512			12 M
						27					
422	AP-228	AP-375	GA.-2	SP+0	07°41'46"RT		27	12539			12 M
						25					
423	AP-229	AP-376	GA.-3	DP+0	28°04'21"LT		25	12564			12 M
						33					
424	AP-230	AP-377	****	FP+0	61°12'40"RT		38	12597			14.5 M
						56			ROAD,11 KV,		
425		AP-378	****	FP+0	63°22'53"RT		56	12653			14.5 M
						26			ROAD		
426	AP-231	AP-379	GA.-3	DP+0	16°44'52"RT		26	12679			12 M
						26					
427	AP-234	AP-380	***	DP+0	18°12'38"LT		26	12705			14.5 M
						28			ROAD,11 KV		
428		AP-381	***	DP+0	38°16'21"LT		28	12733			14.5 M+1M ANGLE EXTENTION
						24			11 KV		
429		AP-382	***	DP+0	20°29'20"LT		24	12757			14.5 M
						26					
430		LOC-382/1	GA-01	SP+0							12 M
						27					
431	AP-237	AP-383	GA.-3	DP+0	11°03'27"RT		53	12810			12 M
						25					
432	AP-238	AP-384	GA.-2	SP+0	06°37'10"RT		25	12835			12 M
						28					
433		LOC-384/1	GA-01	SP+0							12 M
						28			11 KV		
434	AP-240	AP-385	***	DP+0	36°28'33"RT		56	12891			12M + 1M ANGLE EXTENTION
						41			ROAD, LT LINE		
435		385/1	*	SP+0							14.5 M
						41			LT LINE		
436		385/2	*	SP+0							12M + 1M ANGLE EXTENTION
						42			66 KV LINE		
437	AP-244	AP-386	GA.-3	DP+0	13°04'05"RT		124	13015			12 M
						26			NALA		
438	AP-245	AP-387	GA.-04	FP+0	00°00'00"		26	13041			12 M

Hold

Hold

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24/5/18

उत्तम देबनाथ/UTTAM DEBNATH
उप प्रबंधक / DY. MANAGER
पॉवरग्रिड / POWERGRID
उ.पू.खे., अगरतला / NER, Agartala.

ANNEXURE – 4

DETAILS OF PUBLIC CONSULTATION

PROJECT SUMMARY

In order to strengthen the power scenario of the North Eastern States including Tripura, the Government of India with the financial assistance of the WORLD BANK, has formulated the North Eastern Region Power System Improvement Project (NERPSIP) which envisages in construction of new power Sub-stations, Transmission & Distribution lines and simultaneously augmentation/expansion of the existing Sub-stations and Transmission lines.

The NERPSIP in the state of Tripura broadly aims at:-

- Load enhancement of the transmission and distribution network of Tripura as well as reducing the transmission and distribution (T & D) loss.
- To adequately address the demand side management for ensuring adequate supply of electricity.

For implementation of project under North Eastern Region Power System Improvement Project (NERPSIP) construction of different 132 kV substation and transmission & distribution line have been planned to be taken up in this area. For construction of transmission line under this project, any damage caused will be compensated as per the Government norms.

We hope that implementation of the North Eastern Power System Improvement Project (NERPSIP) in the state of Tripura will definitely contribute in the socio-economic development of the state.

TRIPURA STATE ELECTRICITY CORPORATION LTD
(A Government of Tripura Enterprise)

প্রকল্পের সারমর্ম

ত্রিপুরা সহ উত্তর-পূর্ব রাজ্যগুলির বিদ্যুৎ ব্যাবস্থার উন্নতির জন্য ভারত সরকার-বিশ্বব্যাঙ্কের আর্থিক সহায়তায় উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থা উন্নতিকরণ প্রকল্প (NERPSIP) গঠন করেছে, যার মূল উদ্দেশ্য হল নতুন বিদ্যুৎ সাবস্টেশন, নতুন বিদ্যুৎ পরিবাহী ও বন্টন লাইন তৈরী করা এবং পাশাপাশি বর্তমান সাবস্টেশন এবং লাইনগুলির ক্ষমতা বৃদ্ধি ও সম্প্রসারন করা।

উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থা উন্নতিকরণ প্রকল্প (NERPSIP) ত্রিপুরাতে আনার উদ্দেশ্য হল ঃ

- বিদ্যুৎ পরিবাহী ও বন্টন লাইনের ক্ষমতা বৃদ্ধি করা তথা পরিবাহী ও বন্টন বাবদ অপচয় হ্রাস করা।
- চাহিদার উপযোগী বিদ্যুৎ যোগান দেওয়া।

উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থা উন্নতিকরণ প্রকল্পের (NERPSIP) অধীনে ত্রিপুরা রাজ্যের প্রকল্প গুলি বাস্তবায়নের লক্ষে এই এলাকায় ১৩২ কেভি সাবস্টেশন, বিদ্যুৎ পরিবাহী ও বন্টন লাইন তৈরী করার উদ্যোগ নেওয়া হয়েছে। এই প্রকল্পটি বাস্তবায়নে সরকারী নিয়ম অনুযায়ী নির্ধারিত ক্ষতিপূরণ প্রদান করা হবে।

আমরা আশা করি ত্রিপুরার সামাজিক ও অর্থনৈতিক উন্নয়নে উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থা উন্নতিকরণ প্রকল্প (NERPSIP) অনন্য অবদান রাখবে।

ত্রিপুরা রাজ্য বিদ্যুৎ নিগম লিমিটেড
(ত্রিপুরা সরকারের অধিনস্ত একটি সংস্থা)

DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্ত্রনা সভার বিবরণ

Subject/ বিষয়

Construction of 132 kV Rabindranagar- Belonia Line ,132kV Rokhia - Rabindranagar Line & associated distribution lines(with financial assistance of WORLD BANK) under NERPSIP Project

NERPSIP প্রকল্পের আওতায় (বিশ্ব ব্যাংকের আর্থিক সহায়তায়) 132kV রবীন্দ্রনগর – বীলোনিয়া, 132kV রুখিয়া – রবীন্দ্রনগর পরিবাহী লাইন এবং সংযুক্ত বন্টন লাইন নির্মাণ

Place of Meeting/সভার স্থান

Kathalia RD Block(BDO Office Conference Hall)/ কাঠালিয়া ব্লক (BDO অফিস কনফারেন্স হল)

Date of Meeting/সভার তারিখ

30.08.2014 / ৩০.০৮.২০১৪

Name of the dignitary present in the meeting/ সভায় উপস্থিত মর্যাদাপূর্ণ বাক্তিদের নাম

A. **Tripura Government/ ত্রিপুরা সরকার**

1) Sh. Jayanta Bhattacharjee, BDO
2) Sh.Shaymal Chaka, Sonamora, MLA
3) Sh. Abdul Karim, Chairman
4) Sh. Ashok Chakraborty, Vice-Chairman
5) Sh. Narhari Tripura, BSE Chairman

B. **TSECL Officials/ TSECL কর্মকর্তারা**

1. Sh. Ratan Das, DGM,TSECL

C. **POWERGRID Officials/ পাওয়ার গ্রিড কর্মকর্তারা**

1. Sh. N. Dube, DGM, POWERGRID
2. Sh. D.N.Brahma, Chief Manager, POWERGRID
3. Sh. Uttam Debnath, Sr. Engineer, POWERGRID

People present in the meeting/ সভায় উপস্থিত জনসাধারণ

100-150 nos. of local village and some common public .(Attendance Sheet Enclosed)
100-150 জন স্থানীয় গ্রাম এবং কিছু সাধারণ পাবলিক (উপস্থিত বাক্তিবর্গের 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 জনসাধারনের 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 জানামন্ত্রানা উথাপন করলেন উপস্থিত জনসাধারনের 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 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
- ✓ 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 :-

- ➢ 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 ?
- ➢ লাইন বানানোর সময় গাছ কাটার করিডোর/প্রস্থ কি হবে ? কখন এবং কি পরিমান ক্ষতিপরণ দেওযা 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.

In answer to the question of people officials of TSECL/POWERGRID response like

- 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 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 ।

জনসাধারণের প্রশ্নের উত্তরে পবের্গ্রিদ/ ত্সেচ্ল কর্মকর্তারা বলেন

- 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 কিন্ত টাওয়ার বানানোর ফলে যে গাছ বা ফসল ক্ষতি হবে তার ক্ষতি পূরণ দেওয়া হবে
- প্রকল্পর কাজের রুপায়ানের 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 অনরোধের সঙ্গে সভা সমাপ্তির ঘোসনা করা হয়েছে

TRIPURA STATE ELECTRICITY CORPORATION LTD

(A GOVERNMENT OF TRIPURA ENTERPRISE)

Public Consultation Meeting
ATTENDENCE SHEET

Name of Line:- Construction of 132 kV Rabindranagar- Belonia Line ,132kV Rokhia - Rabindranagar Line & associated distribution line

Date... 30.08.2014 Venue-... Kathalia RD Block

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Signature
1	Swapan Kr. Debnath	Dhanpur	Private tution	[signature]
2	Moslem Mia	K.K. Nagar	Agriculture	Moslem Mia
3	Abdul Momin	Sonapur	Business	[signature] 30/8/14
4.	Tapanchandra Kar	Nidaya	Bissness	[signature]
5.	Azikul Islam.	Bejimara	Boissness	A Islam.
6.	[illegible]	Sonapur	Farmer	[illegible]
7.	Rafiqul Islam	Sonapur	Fishing	Rafiqul Islam
8.	Hare Krishna Paul	Dham Pur	Social work	H Paul
9.	Azikul Islam	[illegible]	[illegible] Labour.	Azikul Islam
10	Azad miah	Srimantapur	Labour	[signature]
11	[illegible] Majumder	[illegible]	Tutor.	[signature]

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Date. 30.08.2014 **Venue-** Kathalia R.D. Block

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Signature
12	Bimalsuklabas	Kathalia	Farmar	Bimal
13	Debashish Das	Nirroypur	Farmar	Debashish
14	Abul Kashem	K.K Nagar	Farmar.	Abul Kashem
15	Subhash Ch. Pal	K. K. Nagar	Farmar	Subhash.
16.	Sanjay Naha.	Nidaya.	~~Farmar~~ Pradhan	
17.	[illegible]	[illegible]	[illegible]	[illegible]
18.	Manek Lal Das	Uttarpaharpur.	Farmar.	Manek Das.
19.	[illegible]	[illegible]	[illegible]	[illegible]
20.	Kamal Pal.	D/Mahesh Pal	UP-Pradhan	Kamal Pal.
21	[illegible]	Nidaya	Farmar.	[illegible]
22	[illegible]	Katalakhola	Farmer.	[illegible]

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Date...30.08.2014... **Venue**-...Kathalia R.D. Block...

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Signature
23	Jahangir Hossen	Kalapaniya	Business	Jahangir Hossen
24	Hari mohan Debnath	Jorduria	Farmar	[illegible]
25	Jagadish Noatia	Manai pathar	Vice Chairman A-D-C	[illegible]
26	Abul Kashem	Rabindranagar	Cultivation	[illegible]
27	Chitta Ranjan Sen	Sovapur	[illegible]	[illegible]
28	Matiya Khatun	South paharpur	House wife	Matiya Khatun
29	Asnehara Begam	Jatrapur	H/work	Asnehara Begam
30	[illegible] Mia	Jatrapur	S-W-	[illegible] Mia
31	Makhan Das	Bhabanipur	Farmar	[illegible]
32	Shambu Ch. Day	Bhabanipur	parmar	[illegible]
33	Jugalmani Tripura	Thal Bari	Farmer	[illegible]

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Date.30.08.2014 **Venue-**Kathalia R.D. Block

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Signature
34	Swagata Dey	V/Maheshpur	H/W.	Swagata Dey
35	[illegible]	Kathalakhola	Farmer.	[illegible]
36	[illegible]	Manipathar.	Farmar.	[illegible]
37	Ganga Rani Tripura	Kali Khola	Farmar	✓
38	Dhanyakoni Tripura	Jagatrampur AD village chair person	H/W	Dey 30/8/14
39	Rita Das (Pal)	Maranchak	H/W.	- 30/8/14
40	Manju Begam	Dhanpur	H/W.	Manju Begam
41	Jesmin Sultana ~~Sandu Das~~	Rejimara.	A/P member	Jesmin Sultana
42	Sanjoy Das.	V/Paharpur.	H/W.	- Sanjoy
43	Soma majee [illegible]	V/Maheshpur.	H/W.	Soma 30/8/14
44	[illegible] Malla.	V/Maheshpur	H/W.	Shakti Malla

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Date..30.08.2014 Venue-Kathalia R.D.Block

Sl. no.	Name of the Present Villager	Name of Village/Address	Work/Profession	Signature
45.	Chhabi Dey, P.samity	Bejimara	P. samiti	Chabi dey
46.	Ratna Rani Bhowmik	Barnarayan	pradhan	Ratna Rani Bhowmi
47.	Kakali Rani Shil	SovaPura	Pradhan	Kakali Rani Shil
48	Murseda Begam	বাগান বাজার		Murseda Begam
49	Puspa Begam	Kalapania		Puspa Begam
50	Nimena Begam	kalapania		Nimena Begam
51	Apu Majumder	Rabindra Nagar		Apu Majumder
52	Manika Begam	Rabindra nagar		Manika Begam

PUBLIC CONSULTATION MEETING AT KATHALIA BLOCK ON 29/10/2014


ত্রিপুরা রাজ্য বিদ্যুৎ নিগম লিমিটেড
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