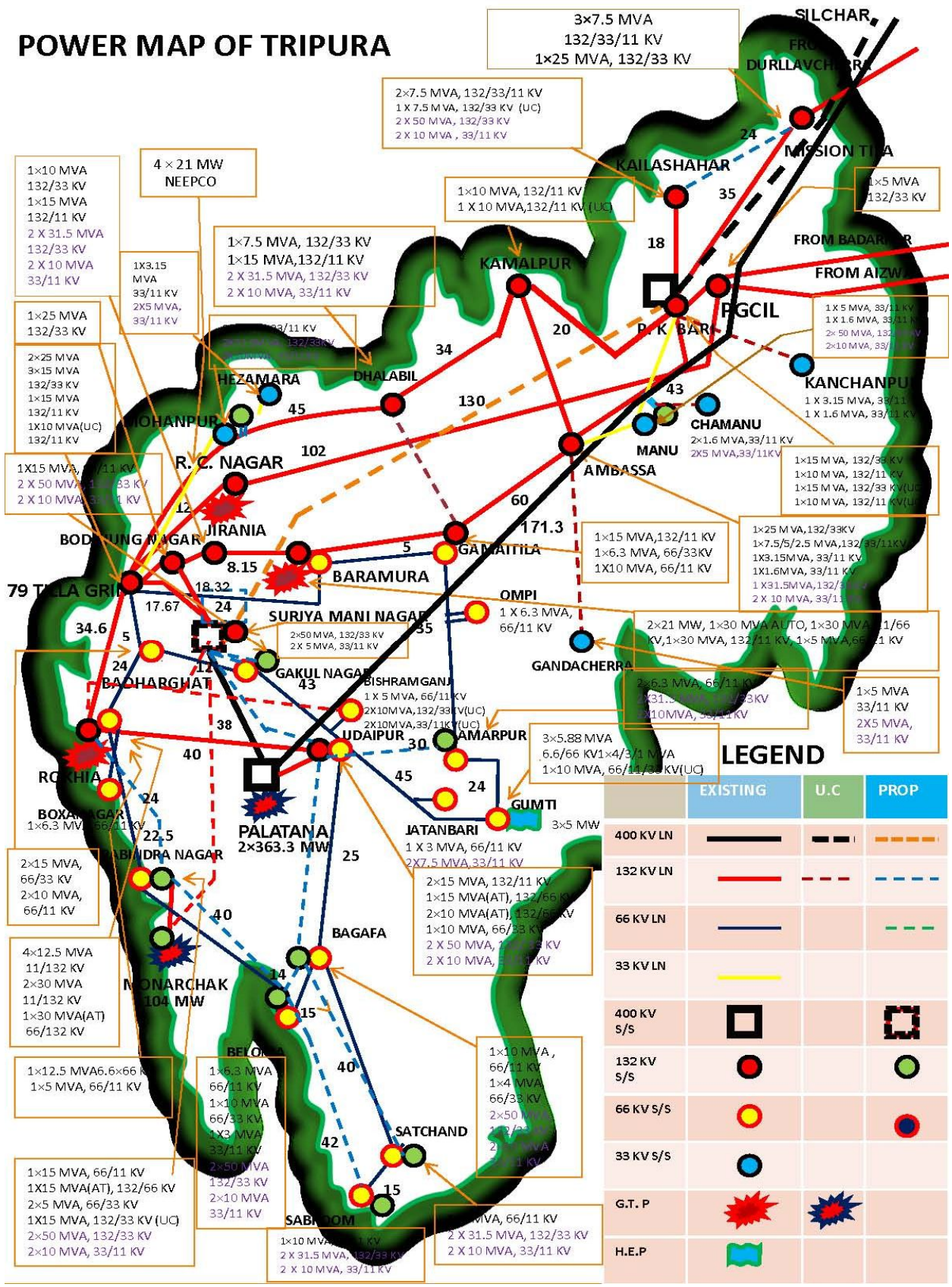


EXHIBIT - 1
POWER MAP OF TRIPURA

POWER MAP OF TRIPURA



LEGEND

| | EXISTING | U.C. | PROP |
|------------|----------|------|------|
| 400 KV LN | | | |
| 132 KV LN | | | |
| 66 KV LN | | | |
| 33 KV LN | | | |
| 400 KV S/S | | | |
| 132 KV S/S | | | |
| 66 KV S/S | | | |
| 33 KV S/S | | | |
| G.T.P | | | |
| H.E.P | | | |

EXHIBIT - 2

***SCHEMATIC MAP SHOWING PROPOSED
TRANSMISSION NETWORK***

Schematic Map Showing proposed Transmission Network in Gumti & South Tripura District under NER Power System Improvement Project in TRIPURA

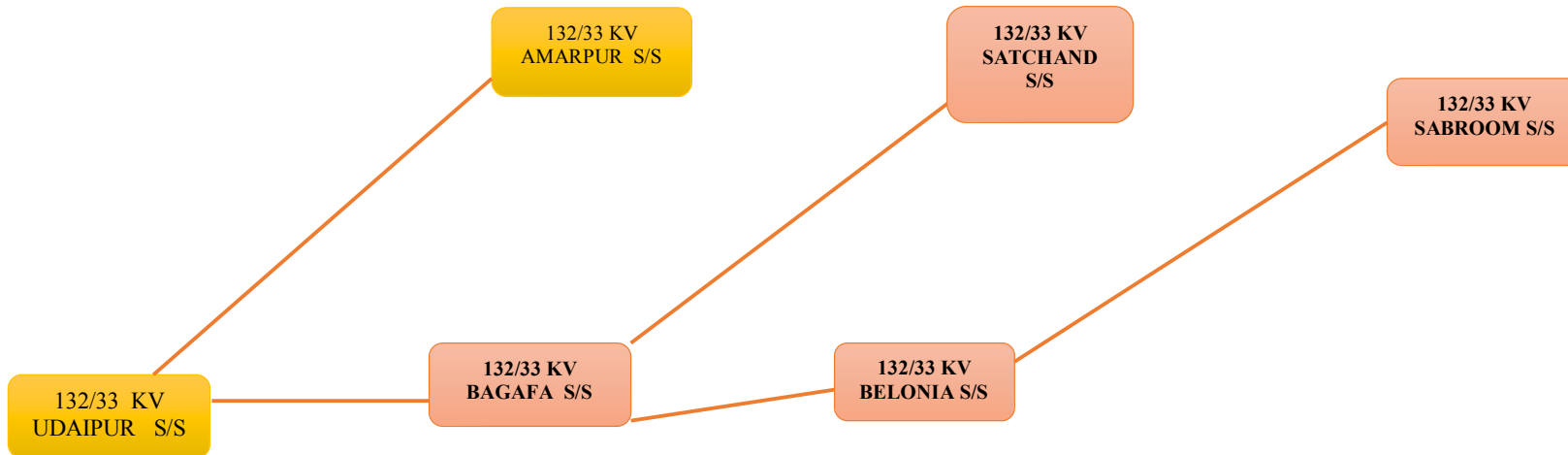
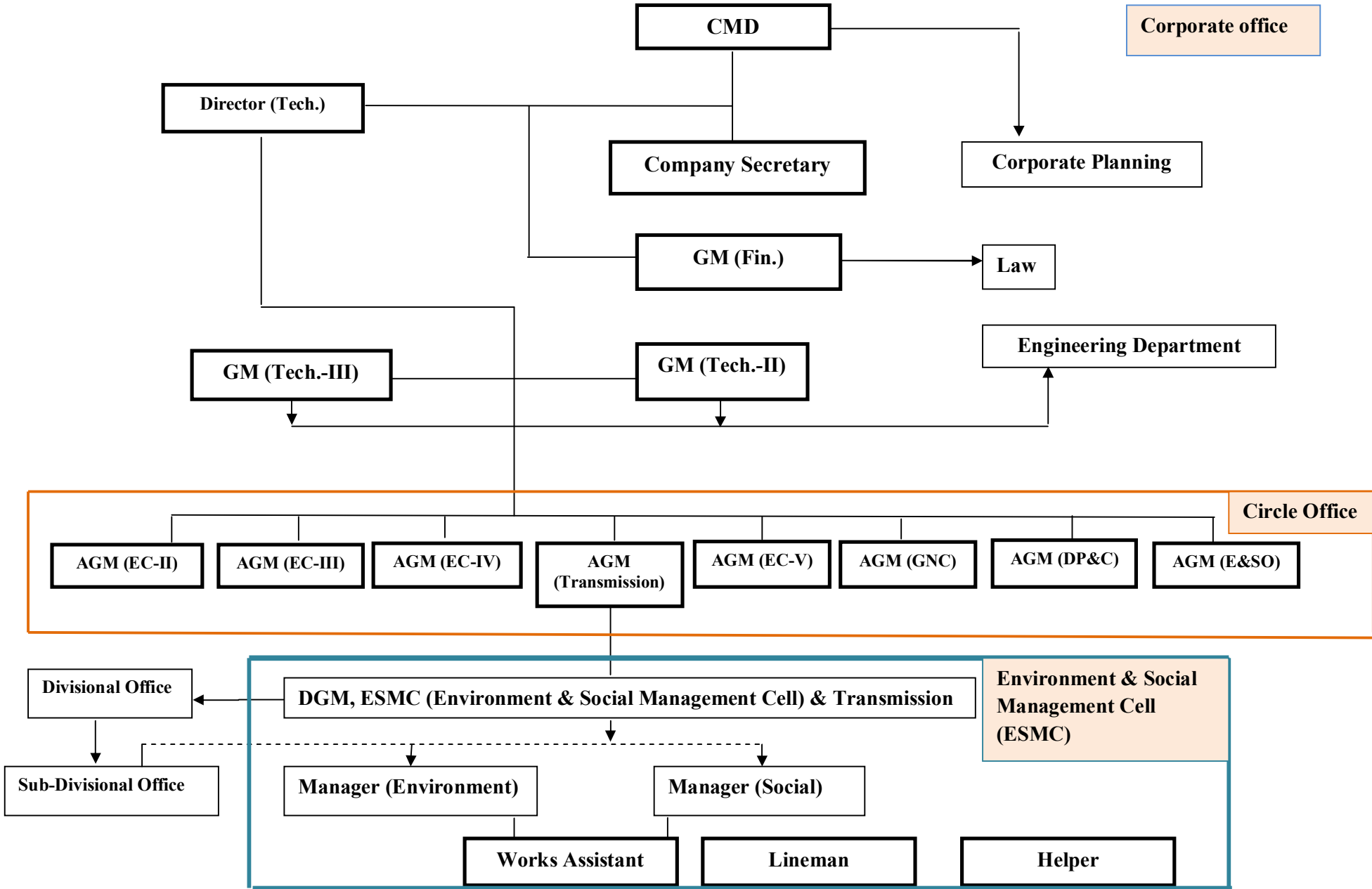


EXHIBIT – 3

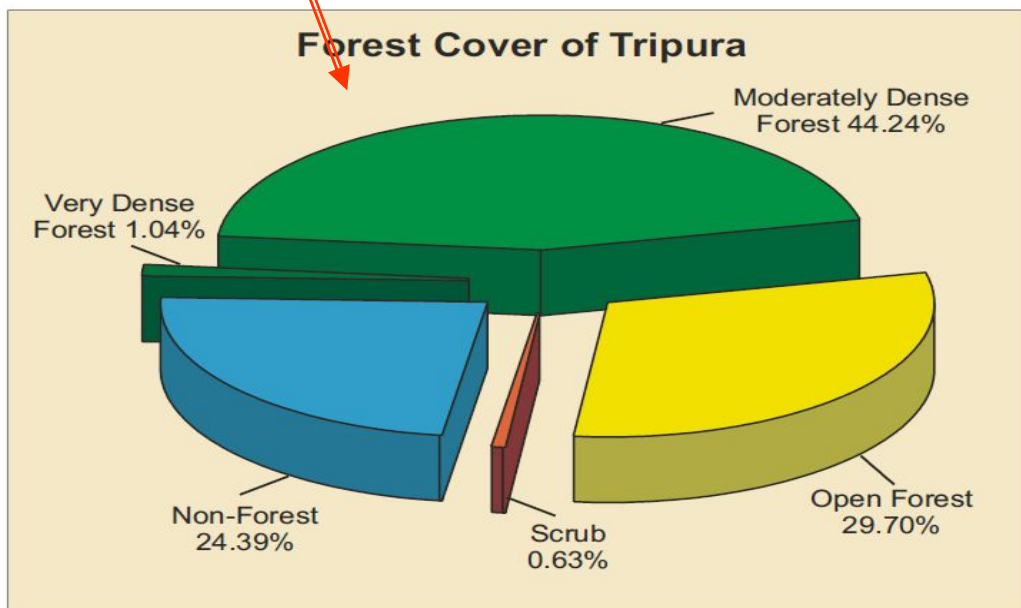
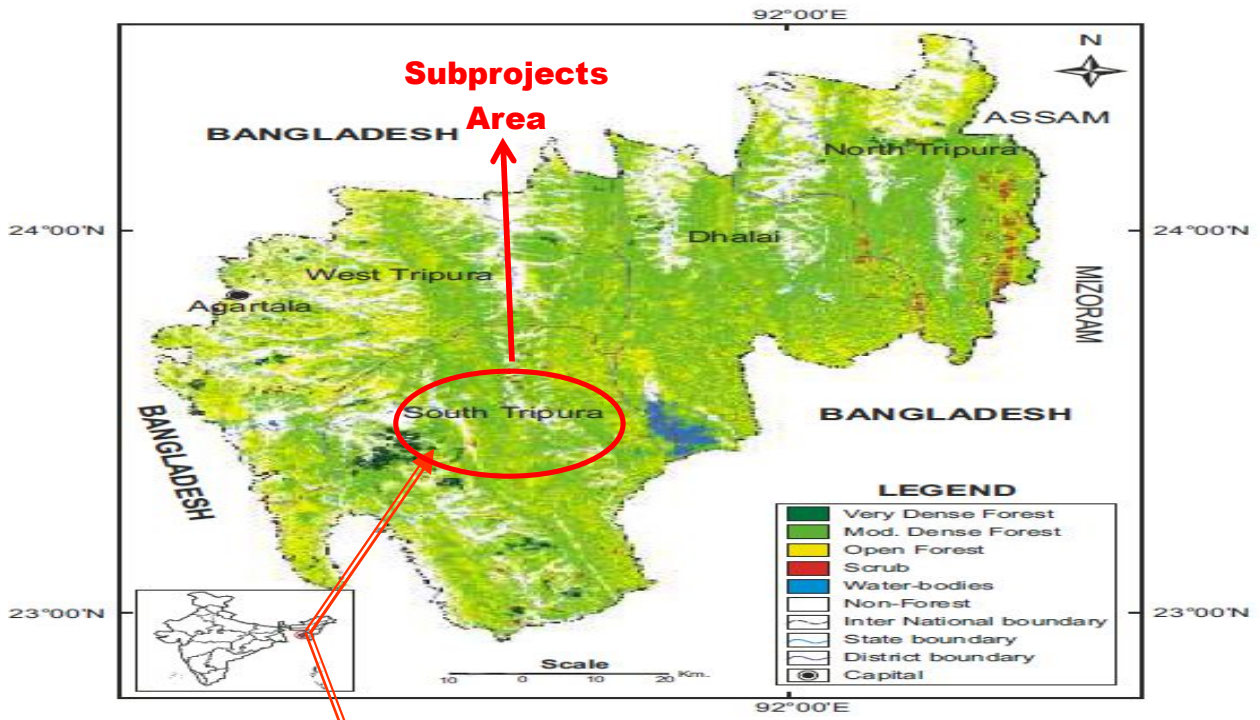
***TSECL'S ORGANIZATION SUPPORT
STRUCTURE***

TSECL's Organization Support Structure for ESPPF



MAP - 1
FOREST COVER MAP OF TRIPURA

FOREST COVER IN TRIPURA

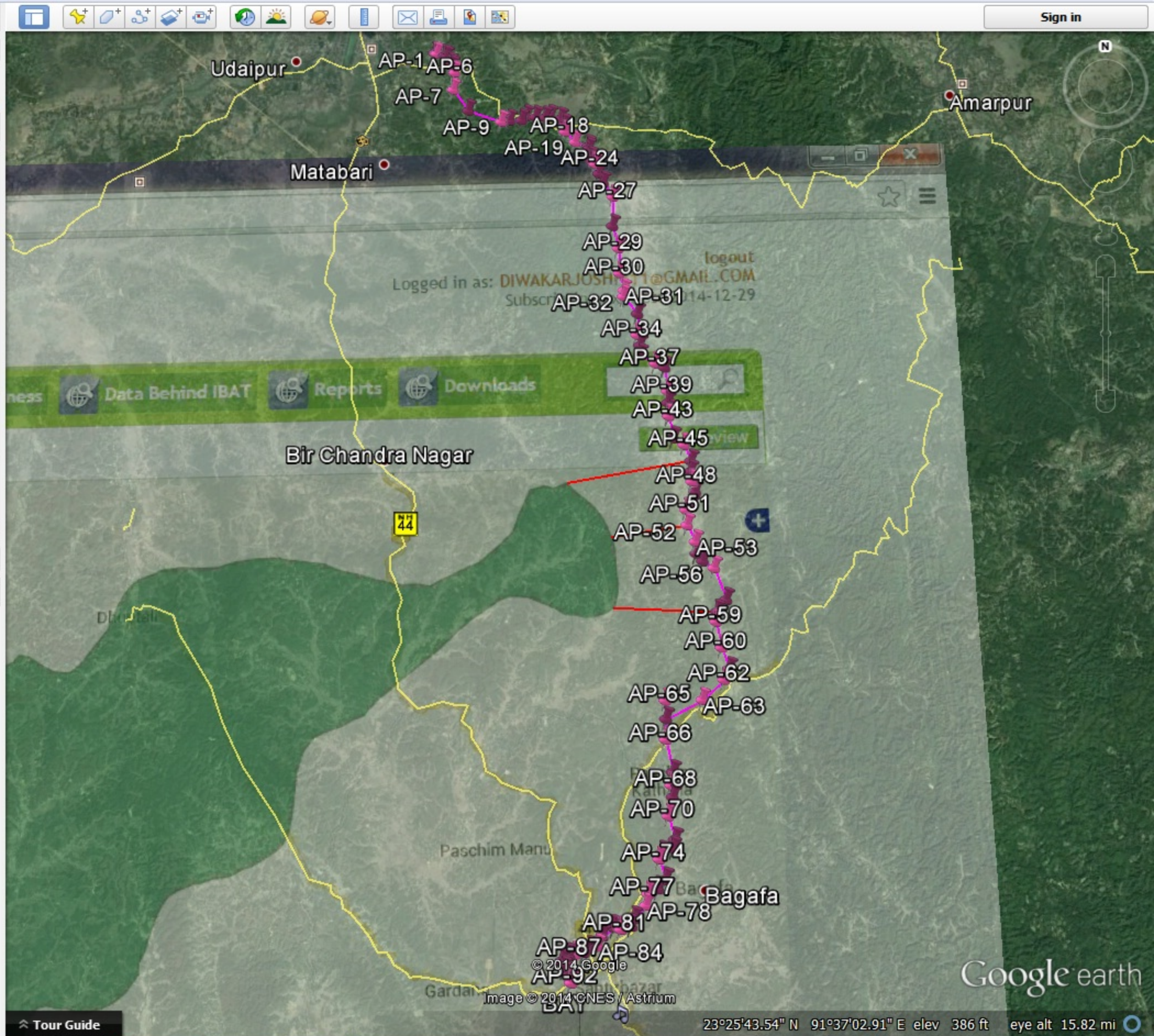


MAP - 3

***IBAT MAP SUPERIMPOSING FOR 132 KV D/C
UDAIPUR -BAGAFA TR. LINE***

- ALT-2 RUPAI CHAPAKH...
- ALT-2 RUPAI CHAPAKH...
- PAKKE 1
- Pakke 2
- Untitled Image Overlay
- Untitled Image Overlay
- Untitled Image Overlay
- 17.85 kms
- 1.53 KMS
- 0.9 KMS
- Earth Point Excel To KML
for Aviation send to ATS.xls
- Sheet1
- 132 KV Udaipur-Bagafa T...
- 1.99 Km
- 132 KV Udaipur-Bagafa T...
- 3.28 kms
- 2.65 kms
- Untitled Image Overlay
- Temporary Places

- Primary Database
- Borders and Labels
- Places
- Photos
- Roads
- 3D Buildings
- Ocean
- Weather
- Gallery
- Global Awareness
- More



MAP – 3 a

***GEOSPATIAL MAP OF AREA SHOWING
SANCTUARY BOUNDARY AND BISON
RESERVE VIS-À-VIS 132 KV D/C UDAIPUR –
BAGAFA LINE ROUTE***

राष्ट्रीय वन्यजीव संस्थान
Wildlife Institute of India

Layers Query Help

Search

Home

Star

Map controls

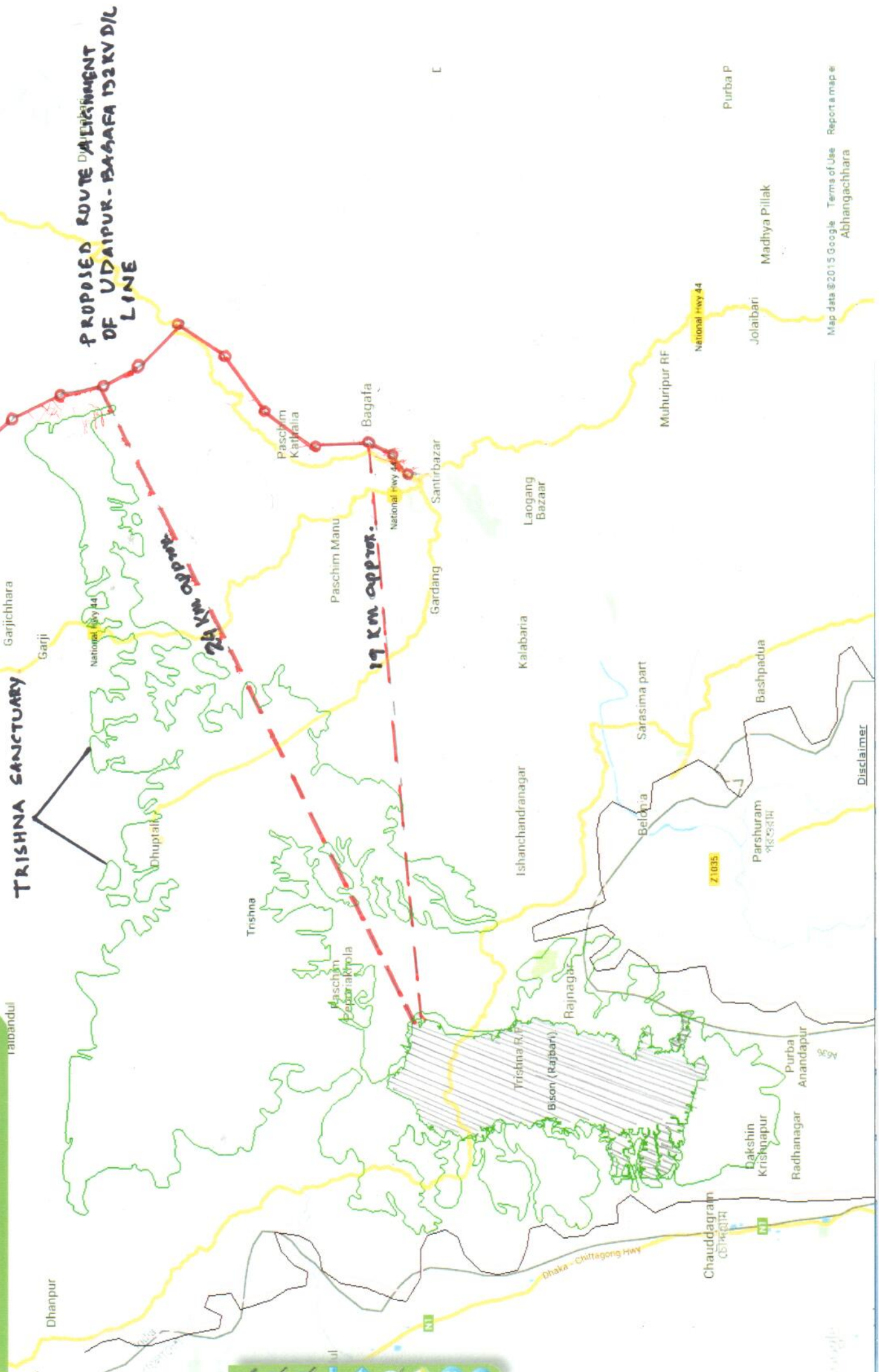


FIGURE - 1

***132 KV LINE DEPICTING ACTUAL POSITION
ALONG WITH ROW AND EXTENT OF
DAMAGE***

132 kV line depicting actual position along with RoW and extent of damage



FIGURE - 1 a

***132 KV TOWER BASE SHOWING IMPACT
ON AGRICULTURAL LAND AND CROP***

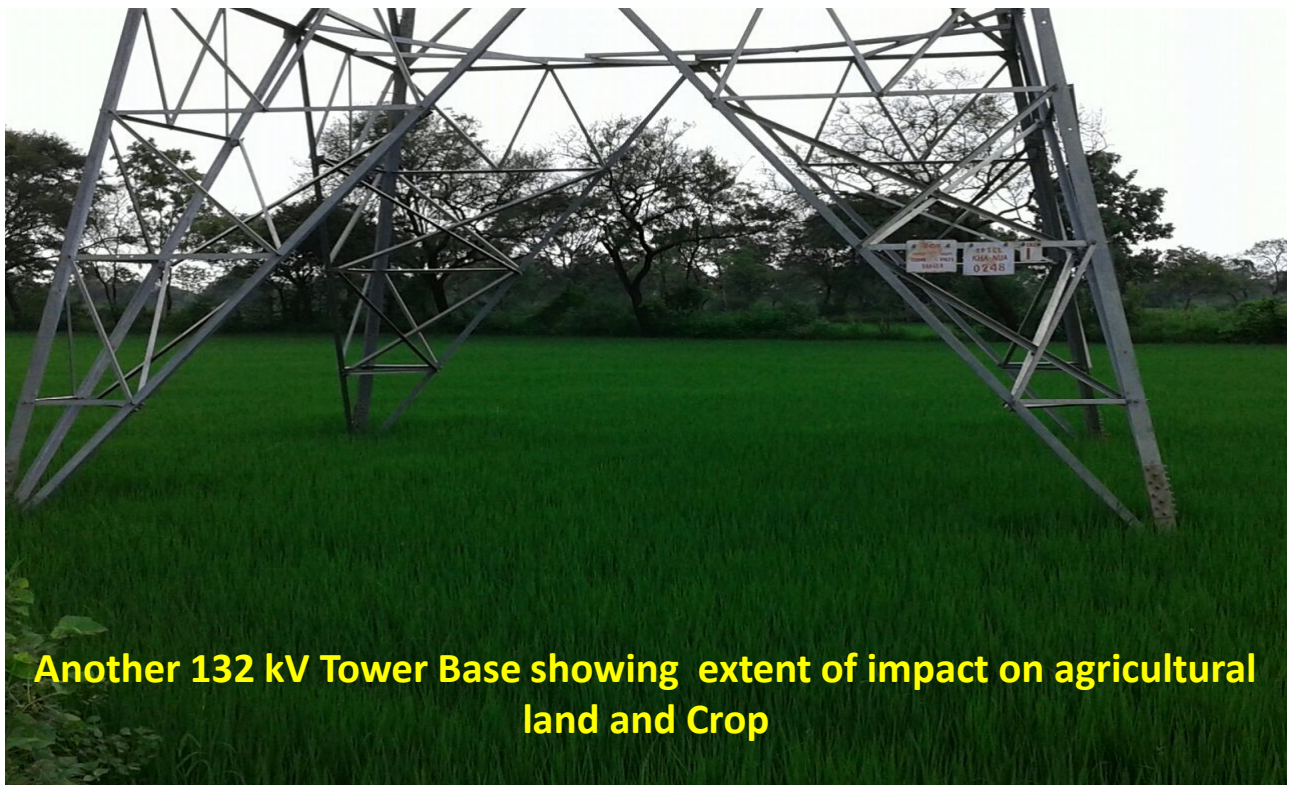
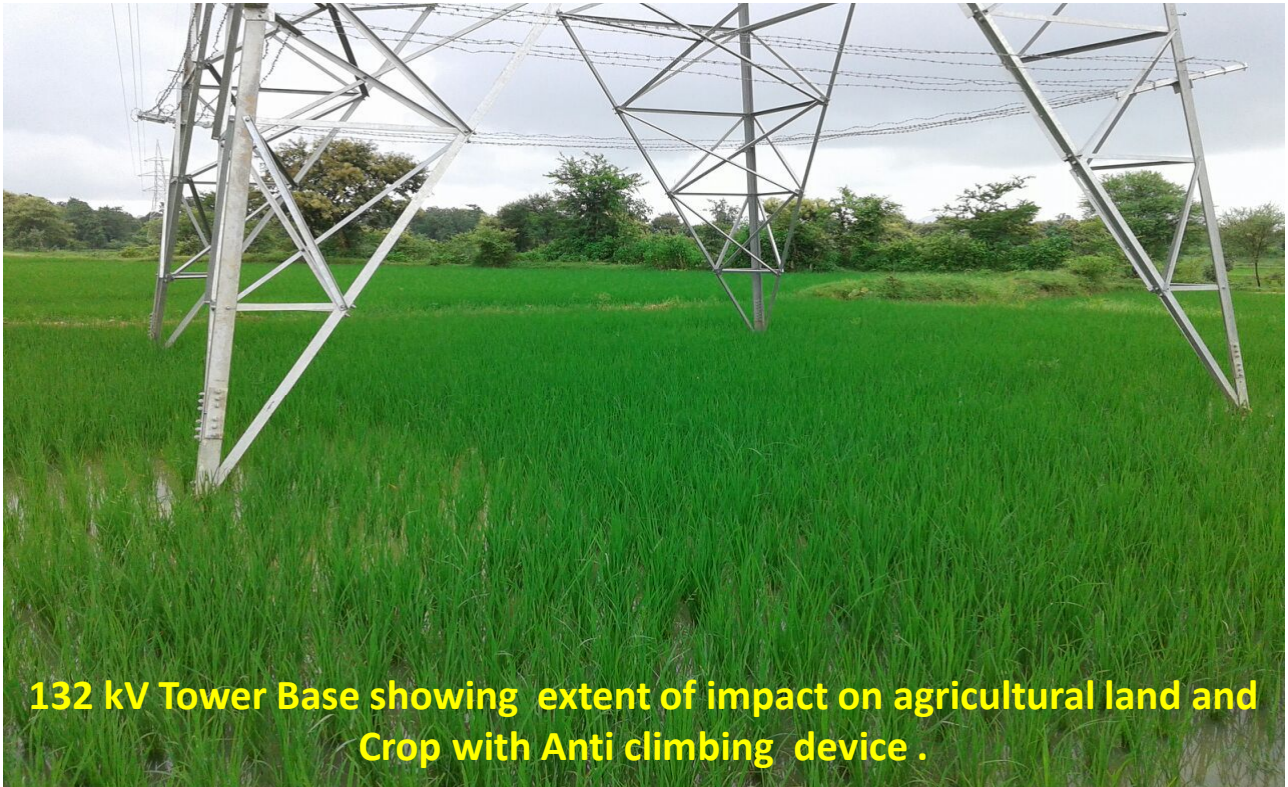
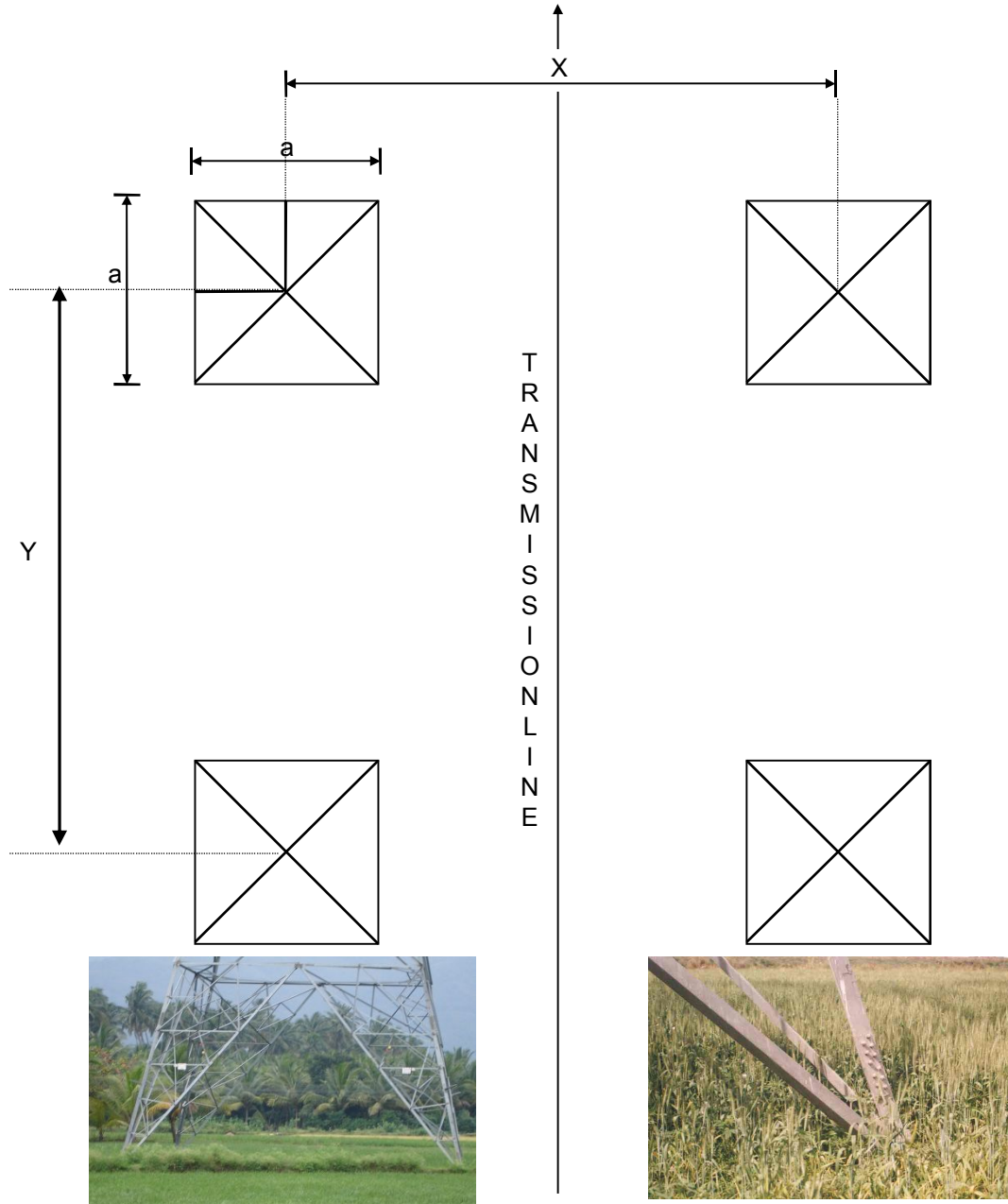


FIGURE - 2

***TYPICAL PLAN OF TRANSMISSION LINE
TOWER FOOTING INDICATING THE ABOVE
POSITION AND EXTENT OF DAMAGE***

**TYPICAL PLAN OF TRANSMISSION LINE TOWER FOOTINGS
SHOWING ACTUAL GOUND POSITION AND EXTENT OF IMPACT**



ACTUAL POSITION ON GROUND

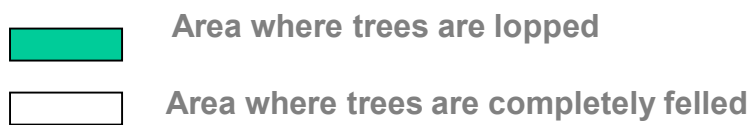
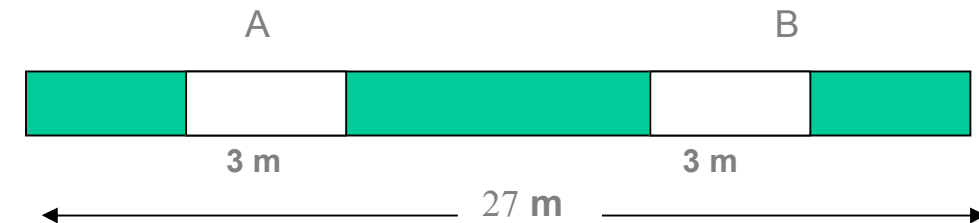
INDICATIVE MEASURES
X & Y = 10-15 METERS
a = 300- 450 mm

FIGURE - 3

***TREE FELLING PATTERN IN FOREST IN
132 KV D/C LINE***

TREE FELLING PATTERN IN FOREST FOR 132 KV D/C

DURING CONSTRUCTION



AFTER CONSTRUCTION

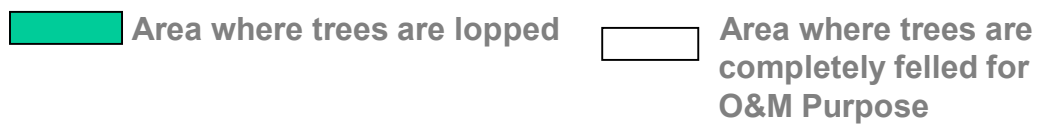


FIGURE - 3 a

***SCHEMATIC DIAGRAM INDICATING AREA OF
INFLUENCE/IMPACT FOR 132 KV D/C
TRANSMISSION LINE***

POWER GRID CORPORATION OF INDIA LIMITED

(A Government Of India Enterprise)

SCHEMATIC DIAGRAM FOR INDICATING AREA OF INFLUENCE/IMPACT for 132 KV D/C Transmission Line

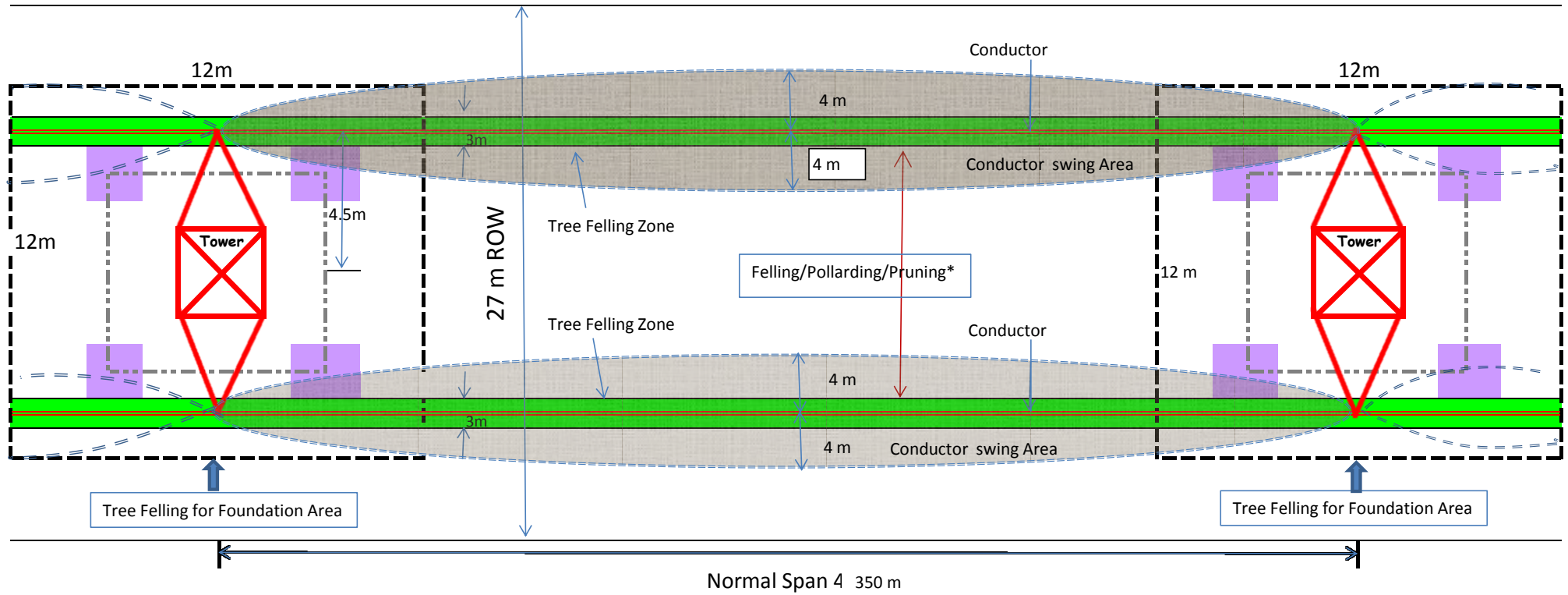
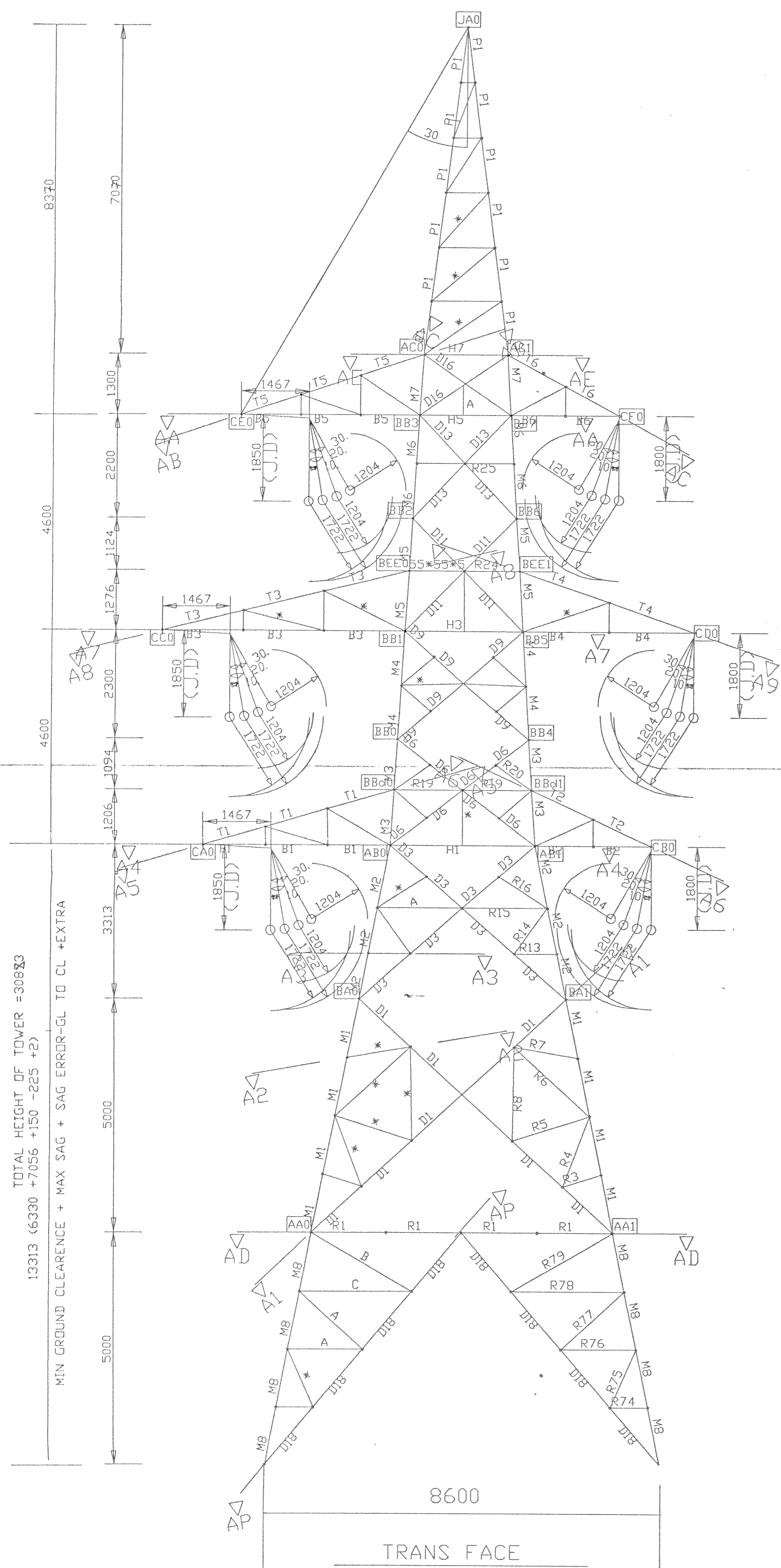
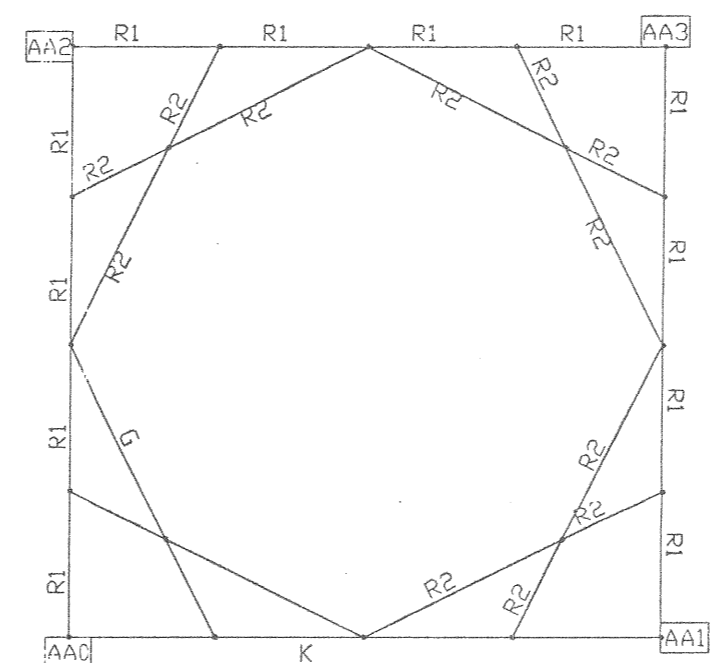
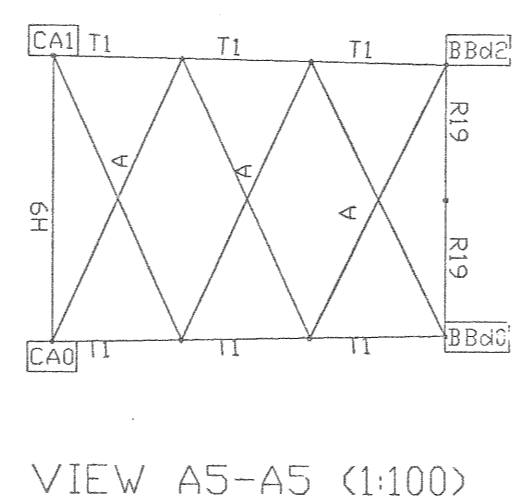
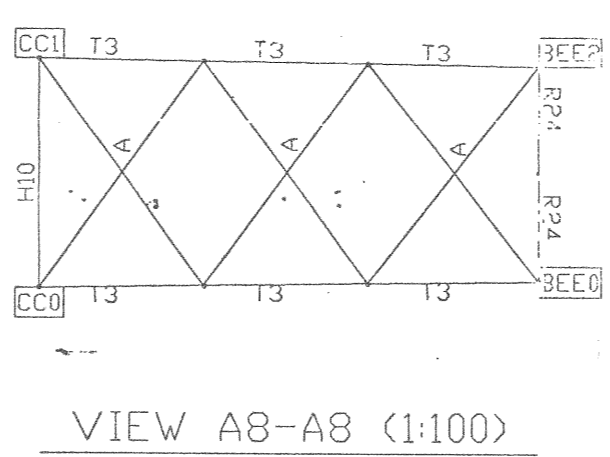
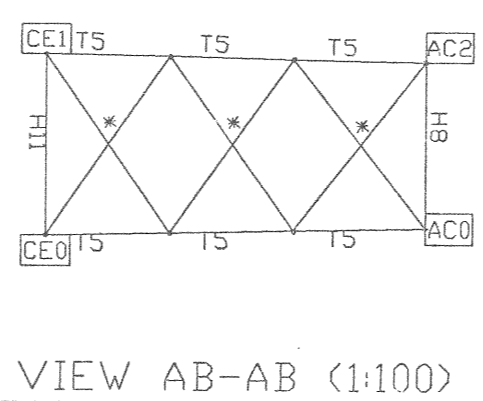
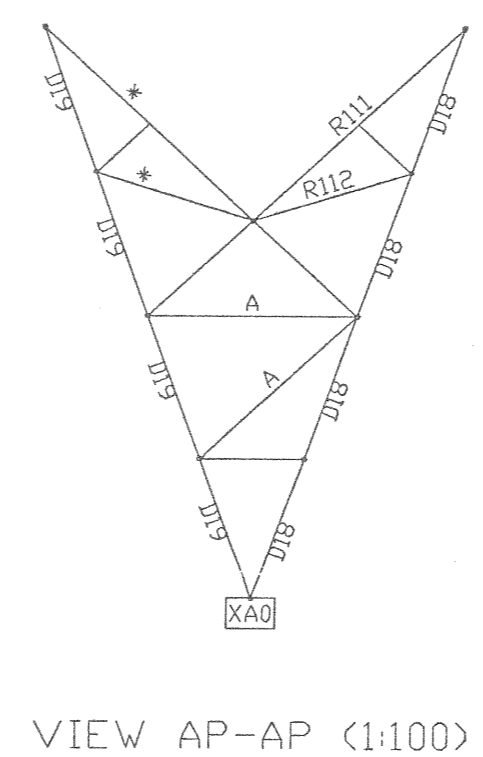


FIGURE - 4

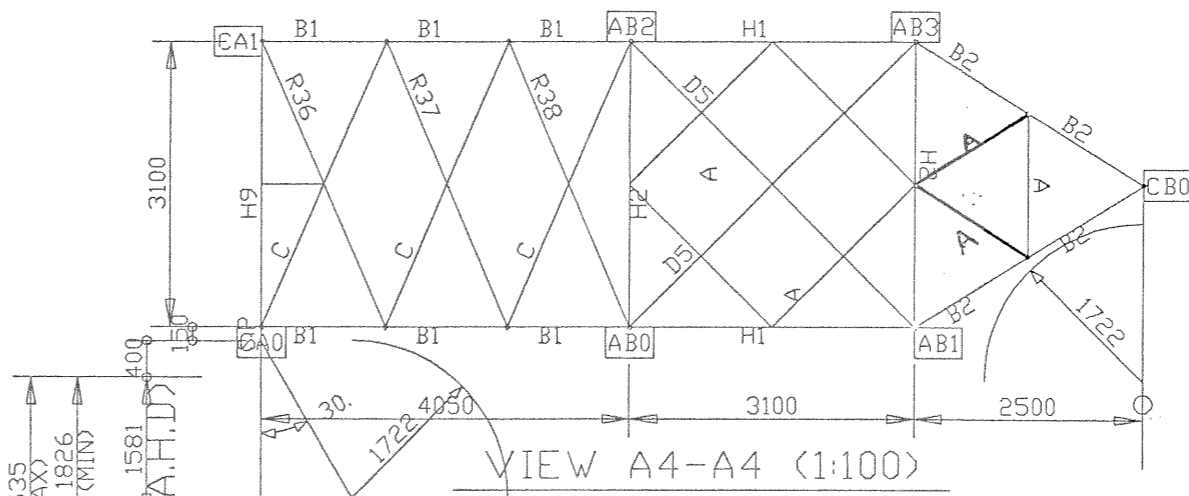
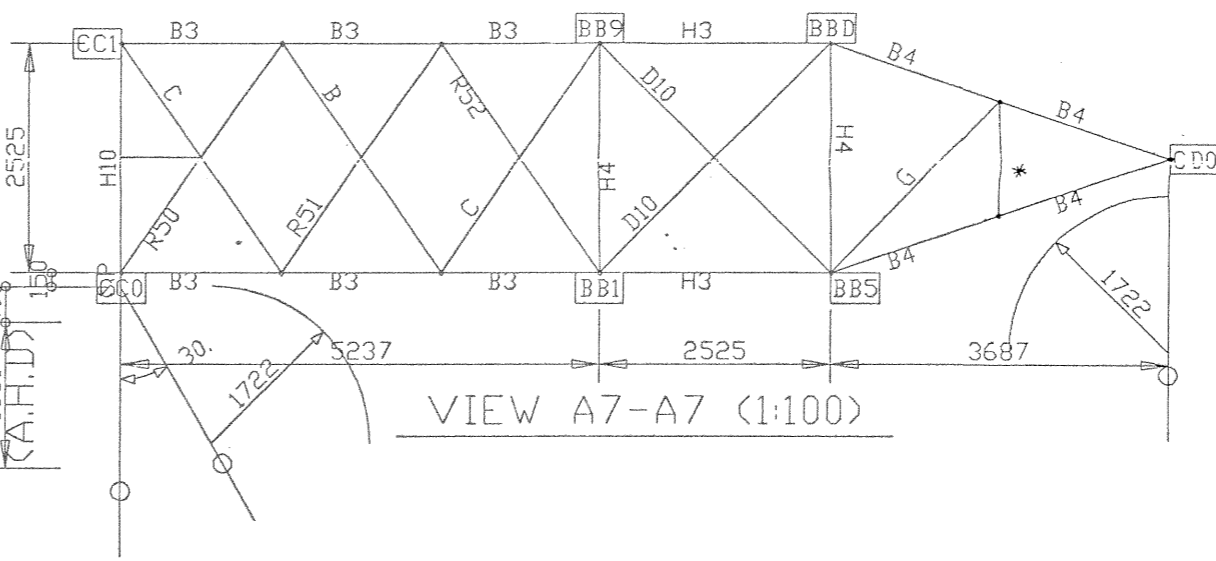
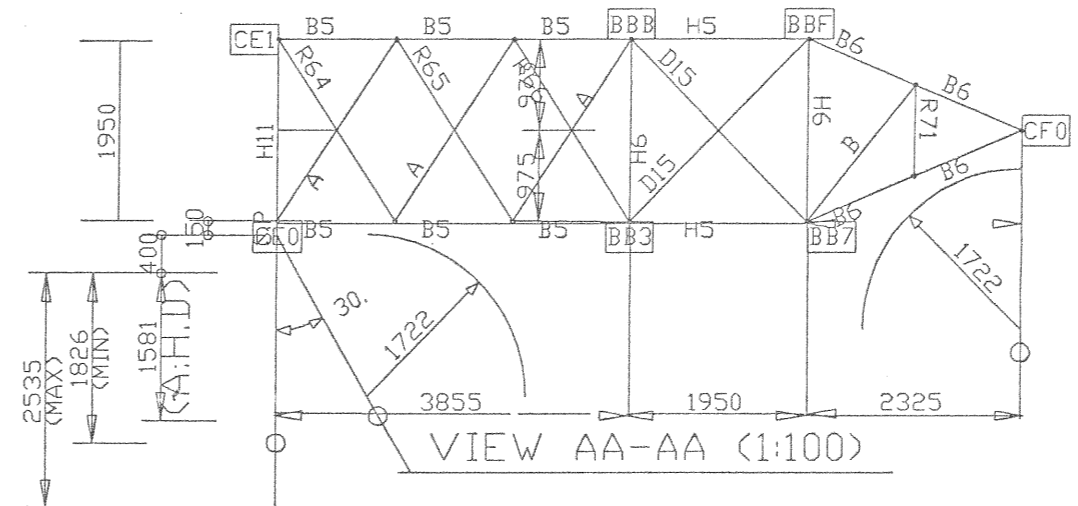
DIAGRAM OF 132 KV D/C TOWER DESIGN



| TOWER TYPE | TOWER COMBINATION |
|------------|---|
| NT -3.0 M | BASIC BODY + 4X(-)3.0M LEG EXTENSIONS |
| NT -1.5 M | BASIC BODY + 4X(-)1.5M LEG EXTENSIONS |
| NT +1.0 M | BASIC BODY + 4X(+/-)1.0M LEG EXTENSIONS |
| NT +1.5 M | BASIC BODY + 4X(+/-)1.5M LEG EXTENSIONS |
| NT +3.0 M | BASIC BODY+0BE+4X(+/-)3.0M LEG EXTENSIONS |
| NT +4.5 M | BASIC BODY+0BE+4X(+/-)4.5M LEG EXTENSIONS |
| NT +6.0 M | BASIC BODY+0BE+4X(+/-)6.0M LEG EXTENSIONS |
| NT +7.5 M | BASIC BODY+0BE+4X(+/-)7.5M LEG EXTENSIONS |
| NT +9.0 M | BASIC BODY+0BE+4X(+/-)9.0M LEG EXTENSIONS |



VIEW AD-AD (1:100)



VIEW A3-A3 (1:100)

VIEW A2-A2 (1:100)

VIEW A1-A1 (1:100)

VIEW AC-AC (1:100)

VIEW A9-A9 (1:100)

VIEW A6-A6 (1:100)

| GROUP NO. | SECTION | BOLTS NO | BOLT DIA |
|--------------------------|---------------------|----------|----------|
| A. LEG MEMBERS: | | | |
| M1 | HT L 120 X 120 X 10 | 8 | 12 |
| M2 | HT L 120 X 120 X 10 | 8 | 12 |
| M3 | MS L 120 X 120 X 10 | 8 | 12 |
| M4 | MS L 120 X 120 X 10 | 6 | 12 |
| M5 | HT L 90 X 90 X 7 | 4 | 8 |
| M6 | HT L 90 X 90 X 7 | 4 | 8 |
| M7 | HT L 90 X 90 X 7 | 4 | 8 |
| M8 | HT L 130 X 130 X 10 | 8 | 12 |
| LATTICES/BRACINGS | | | |
| D18/D19 | MS L 75 X 75 X 5 | 3 | 8 |
| D1 | MS L 70 X 70 X 5 | 3 | 8 |
| D2 | MS L 70 X 70 X 5 | 3 | 8 |
| D3 | MS L 75 X 75 X 6 | 3 | 8 |
| D4 | MS L 75 X 75 X 6 | 3 | 8 |
| D5 | MS L 75 X 75 X 5 | 3 | 8 |
| D6 | MS L 75 X 75 X 5 | 3 | 8 |
| D7 | HT L 65 X 65 X 5 | 3 | 8 |
| D8 | HT L 80 X 80 X 6 | 3 | 8 |
| D9 | HT L 80 X 80 X 6 | 3 | 8 |
| D10 | MS L 80 X 80 X 5 | 3 | 8 |
| D11 | MS L 75 X 75 X 5 | 3 | 8 |
| D12 | MS L 75 X 75 X 5 | 3 | 8 |
| D13 | MS L 70 X 70 X 5 | 3 | 8 |
| D14 | MS L 70 X 70 X 5 | 3 | 8 |
| D15 | MS L 60 X 60 X 5 | 3 | 8 |
| D16 | MS L 50 X 50 X 4 | 3 | 8 |
| D17 | MS L 45 X 45 X 4 | 3 | 8 |
| HORIZONTALS | | | |
| H1 | MS L 70 X 70 X 5 | 3 | 8 |
| H2 | MS L 70 X 70 X 5 | 3 | 8 |
| H3 | MS L 75 X 75 X 6 | 3 | 8 |
| H4 | MS L 65 X 65 X 5 | 3 | 8 |
| H5 | MS L 65 X 65 X 5 | 3 | 8 |
| H6 | MS L 55 X 55 X 4 | 3 | 8 |
| H7 | MS L 55 X 55 X 4 | 3 | 8 |
| H8 | MS L 45 X 45 X 4 | 3 | 8 |
| H9 | MS L 45 X 45 X 4 | 3 | 8 |
| H10 | MS L 75 X 75 X 6 | 3 | 8 |
| H11 | MS L 75 X 75 X 6 | 3 | 8 |
| MAIN ARM | | | |
| B1 | HT L 75 X 75 X 5 | 3 | 8 |
| B2 | MS L 60 X 60 X 4 | 3 | 8 |
| B3 | MS L 60 X 60 X 4 | 3 | 8 |
| B4 | MS L 90 X 90 X 6 | 3 | 8 |
| B5 | HT L 75 X 75 X 5 | 3 | 8 |
| B6 | MS L 60 X 60 X 4 | 3 | 8 |
| ARM TOPS | | | |
| T1 | HT L 60 X 60 X 5 | 3 | 8 |
| T2 | MS L 65 X 65 X 4 | 3 | 8 |
| T3 | HT L 65 X 65 X 4 | 3 | 8 |
| T4 | MS L 65 X 65 X 5 | 3 | 8 |
| T5 | HT L 55 X 55 X 5 | 3 | 8 |
| T6 | MS L 60 X 60 X 4 | 3 | 8 |
| PEAK MEMBERS | | | |
| P1 | HT L 65 X 65 X 5 | 4 | 8 |

LEGEND
L - SINGLE ANGLE
SS - SINGLE SHEAR

| SEC MKD. | SECTION | REMARKS |
|-------------|--------------------|---------|
| A | MS L 45 X 45 X 4 | |
| B | MS L 55 X 55 X 4 | |
| C | MS L 60 X 60 X 4 | |
| D | HT L 60 X 60 X 4 | |
| F | MS L 65 X 65 X 4 | |
| G | MS L 60 X 60 X 5 | |
| H | HT L 60 X 60 X 5 | |
| I | MS L 65 X 65 X 5 | |
| J | HT L 65 X 65 X 5 | |
| K | MS L 70 X 70 X 5 | |
| L | HT L 70 X 70 X 5 | |
| M | MS L 75 X 75 X 5 | |
| N | HT L 75 X 75 X 5 | |
| O | MS L 80 X 80 X 6 | |
| P | HT L 80 X 80 X 6 | |
| Q | MS L 90 X 90 X 6 | |
| R | HT L 90 X 90 X 6 | |
| S | MS L 100 X 100 X 6 | |
| T | MS L 100 X 100 X 6 | |
| UNNOTED SEC | MS L 45 X 30 X 4 | |

NOTES:
1. ALL DIMENSIONS ARE IN MM.
2. HT INDICATES HIGH TENSILE STEEL AS PER IS 2062 GR E350
3. MS INDICATES MILD STEEL AS PER IS 2062 GR E-250
4. ALL BOLTS ARE 16 MM DIAMETER OF GRADE 5.6 .
UNLESS OTHER WISE SPECIFIED
5. CONNECTED DRAWINGS: CCENGGTLCCENGGTL152411PP001 SHEET 2 OF 2.
6. CONNECTION OF SINGLE REDUNDANT TD LEG MEMBER UP TO CROSS ARM LEVEL SHALL BE DONE WITH MIN. TWO BOLTS.
7. WHEREVER SECTION SIZE/TYP E OF STEEL(MS/HT) ARE DIFFERENT FOR TRANS & LONG LATTICES, INTERCHANGEABILITY SHALL BE AVOIDED BY ADOPTING DIFFERENT DETAILINGS .

POWER GRID CORPORATION OF INDIA LTD. - New Delhi.

SPECN. NO. 132 KV D/C LINE TOWER TYPE : DD WIND ZONE : 5 (50 m/s) WITH ACSR PANTHER CONDUCTOR

SCALE: 1:100

DESIGN: [Signature]

CHECKED: [Signature]

REVIEWED: [Signature]

DRG. NO. ENGGTL152411P001

SHEET NO. 1

REV. SYM. | | | |

ANNEXURE - 1
LIST OF PROTECTED AREAS

| Sl. No. | Name of the Wildlife Sanctuary/National Park | Area in Sq Km | Location/ District | Important Flora and Fauna found |
|----------------|---|----------------------|---------------------------|--|
| 1. | Sepahijala Wildlife Sanctuary | 18.54 | Sepahijala | Birds and Primates, Migratory Birds in the winter, Spectacled Monkey. |
| 2. | Gomati Wildlife Sanctuary | 389.54 | Dhalai, Gomati | Elephant, Sambar, Barking Deer, Wild Goats, Serrow etc. |
| 3. | Trishna Wildlife Sanctuary | 194.71 | South Tripura | Birds and Primates, Bison, Leopard, Barking Deer, Wild Dog, Capped Langur, Spectacled Monkey, Slow Lorries, etc. |
| 4. | Rowa Wildlife Sanctuary | 0.86 | North Tripura | Many species of Birds and Primates |
| 5. | Bison (Rajbari) National Park | 31.63 | South Tripura | Bisons and many species of Birds |
| 6. | Clouded Leopard National Park | 5.08 | West Tripura | Clouded Leopard, Spectacled Langur and many Birds |

ANNEXURE – 2

LOCATION DETAILS OF SUBSTATION



BAGAFI SUBSTATION



BELONIA SUBSTATION



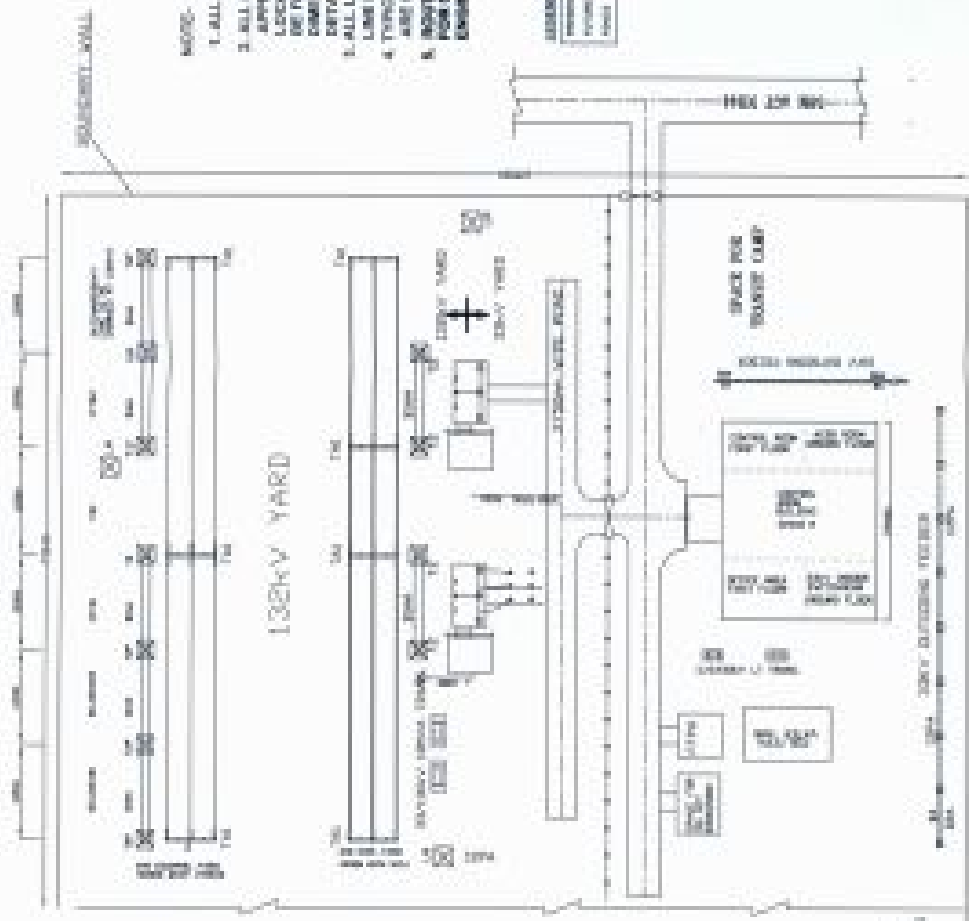
SABROOM SUBSTATION



SATCHAND SUBSTATION



- NOTE-**
1. ALL DIMENSIONS ARE IN MM
 2. ALL ROAD, PLOT CORNER OR BUILDING LINE, UT RAMP, APPROACH ROAD, RAIL, TRACK/FENCE AND LINE LOCATIONS ARE SHOWN TENTATIVELY ONLY AND SHALL BE FINAL ONLY AFTER VERIFYING ACTUAL PLOT DIMENSIONS INCLUDING LINE CORRECTION DURING DETAILED ENGINEERING.
 3. ALL LINE CORRECTIONS SHALL BE AS PER ACTUAL LINE ENTRY.
 4. TYPICAL ELECTRICAL LAYOUT-PLANS SECTION ARE SHOWN APPROXIMATELY.
 5. ROUTE OF 132KV BUNDLED CABLE TRUNKS ARE NOT SHOWN FOR CLARITY, THE SAME SHALL BE FINALISED DURING DETAIL CORRECTIONS.



LEGEND

| | |
|-----|-------------|
| --- | 132KV BUS |
| --- | 132KV TRUNK |
| --- | 132KV TRUNK |

FOR INFORMATION ONLY

PROJECT CODE-CORPORATION OF INDIA LIMITED

| | | | |
|-----|------------|-----|-----|
| NO. | DATE | BY | FOR |
| 101 | 10/10/2010 | ... | ... |
| 102 | 10/10/2010 | ... | ... |
| 103 | 10/10/2010 | ... | ... |
| 104 | 10/10/2010 | ... | ... |

APPROVED BY: [Signature]

DATE: 10/10/2010

SCALE: AS SHOWN

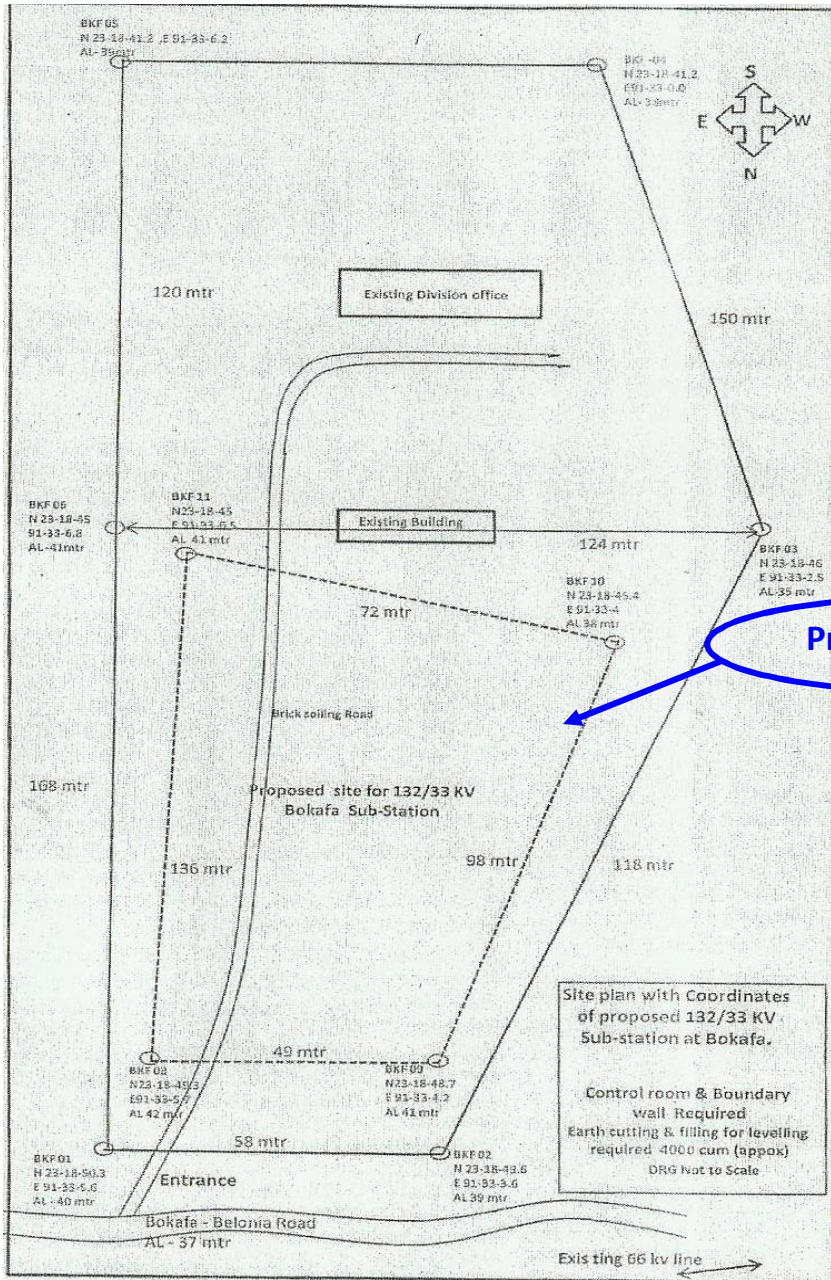
TO EXISTING CONTROL ROOM BUILDING AND QUARTERS

TO EXISTING CONTROL ROOM BUILDING AND QUARTERS



VIEW OF BAGAFI 66/33/11 KV EXISTING SUBSTATION

Site Plan & Actual Photograph of Proposed 132/33 KV Substation at Bagafa



Proposed Site



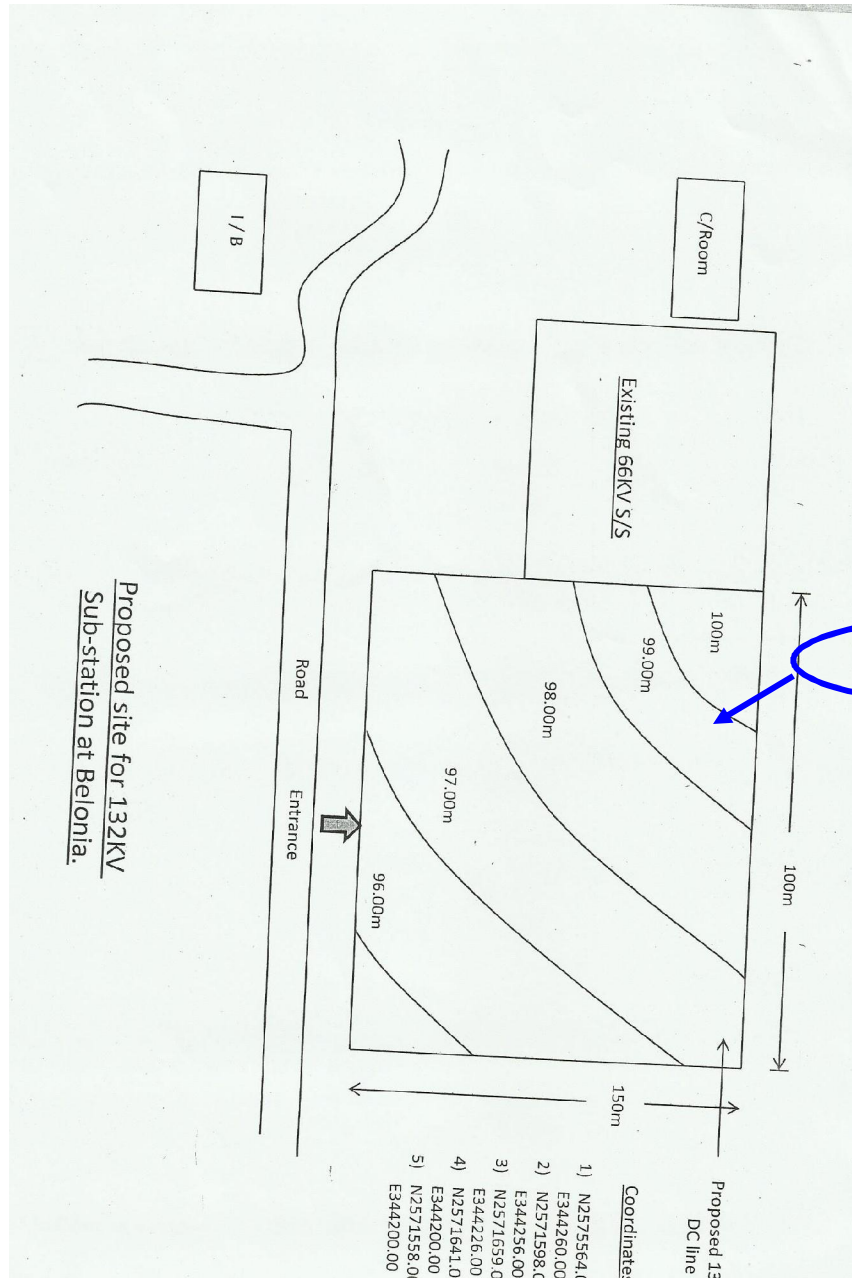


Land for proposed substation

03 03 2015

VIEW OF BELONIA 66/33/11 KV EXISTING SUBSTATION

Site Plan & Actual Photograph of Proposed 132/33 KV Substation at Belonia

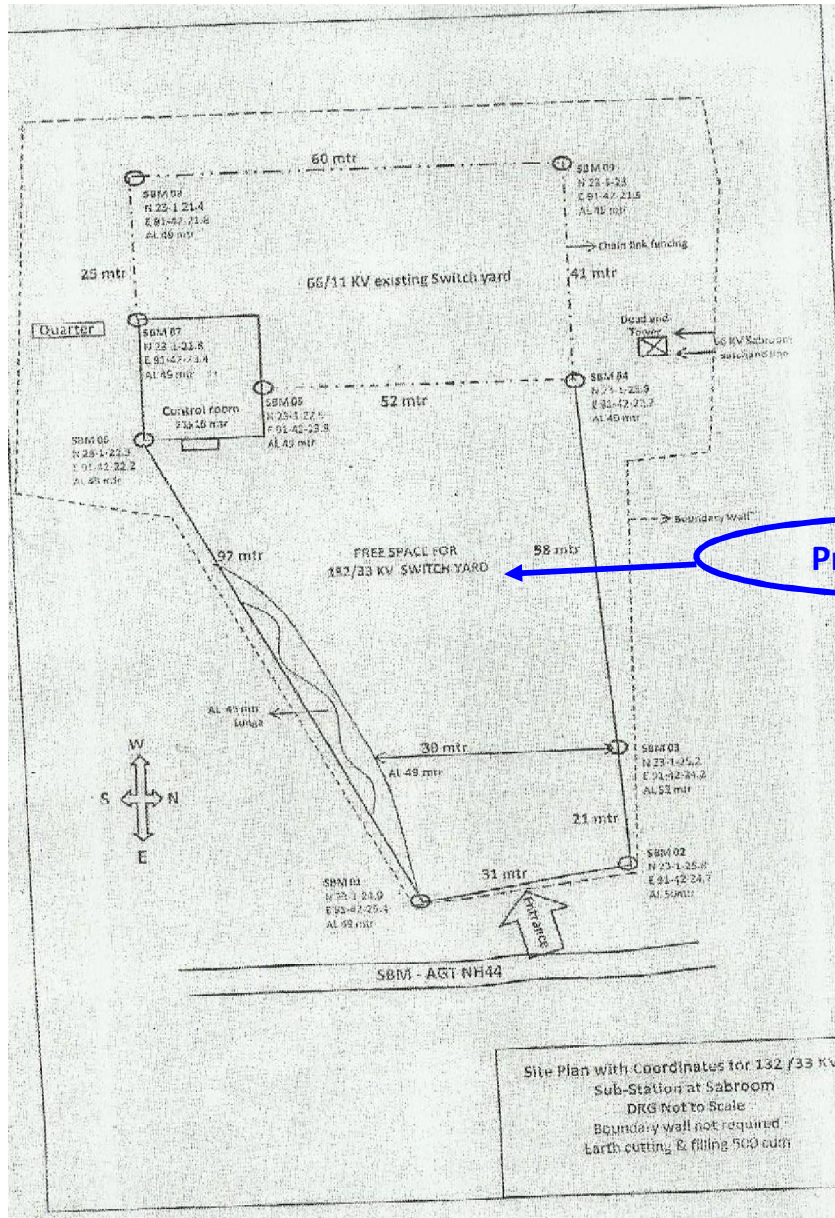




Land for proposed substation

VIEW OF SABROOM 66 KV EXISTING SUBSTATION

Site Plan & Actual Photograph of Proposed 132/33 KV Substation at Sabroom

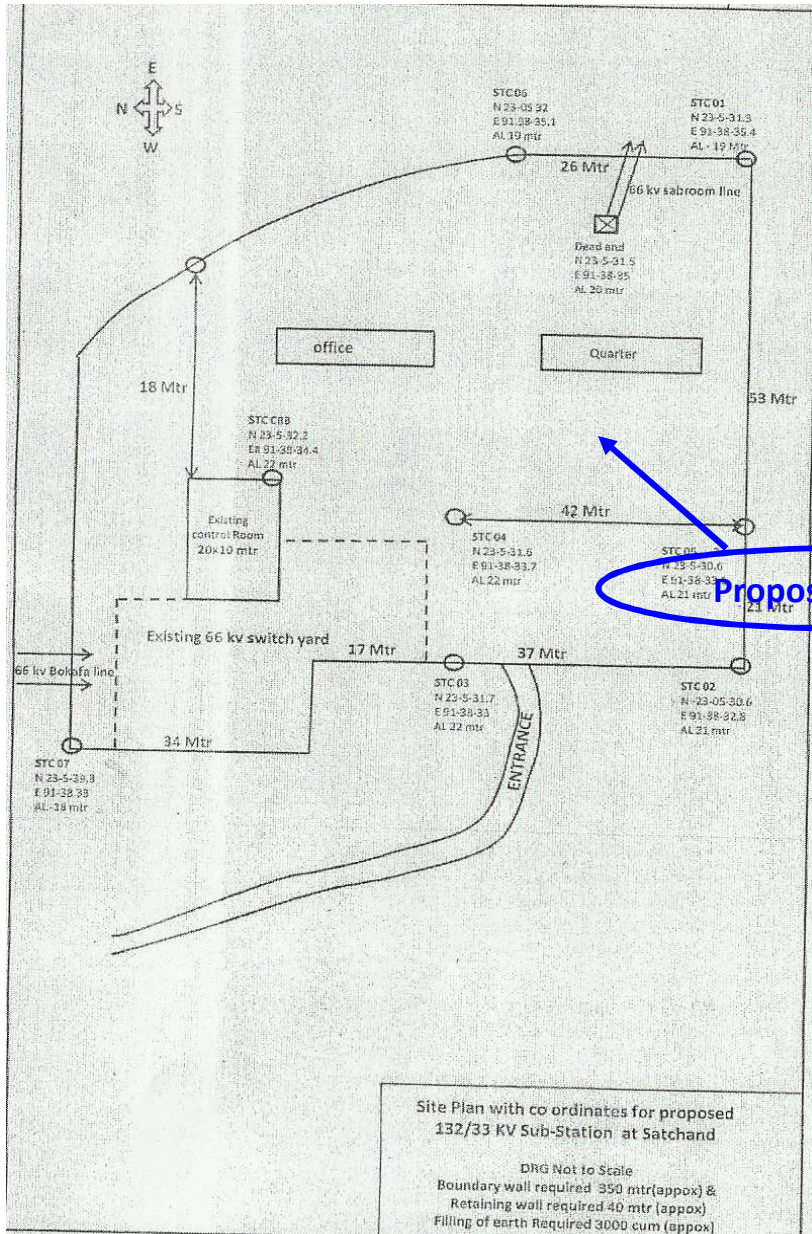




Land for proposed substation

VIEW OF SATCHAND 66 KV EXISTING SUBSTATION

Site Plan & Actual Photograph of Proposed 132/33 KV Substation at Satchand



04 03 2015

ANNEXURE – 3

***TREE, CROP AND TOWER BASE
COMPENSATION PROCEDURE***

TREE / CROP/ TOWER FOOTING COMPENSATION PROCESS (OTHER THAN FOREST LAND COMPENSATION)

As per the provisions of Electricity Act, 2003 and Indian Telegraph Act 1885, land for tower and right of way is not acquired and agricultural activities are allowed to continue. However, the acts also stipulate that licensee shall pay full compensation to all interested for any damages sustained during the execution of said work. Accordingly, TSECL pays compensation to land owners towards damages if any during implementation of transmission project as well as during operation and maintenance phase.

TSECL follows the principle of avoidance, minimization and mitigation in the construction of line in agricultural field having crop 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.

As regards 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 (Affected Person) 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. Cashew, 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.

TSECL also pay compensation to affected land owners for utilization of their land for tower footing.

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

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

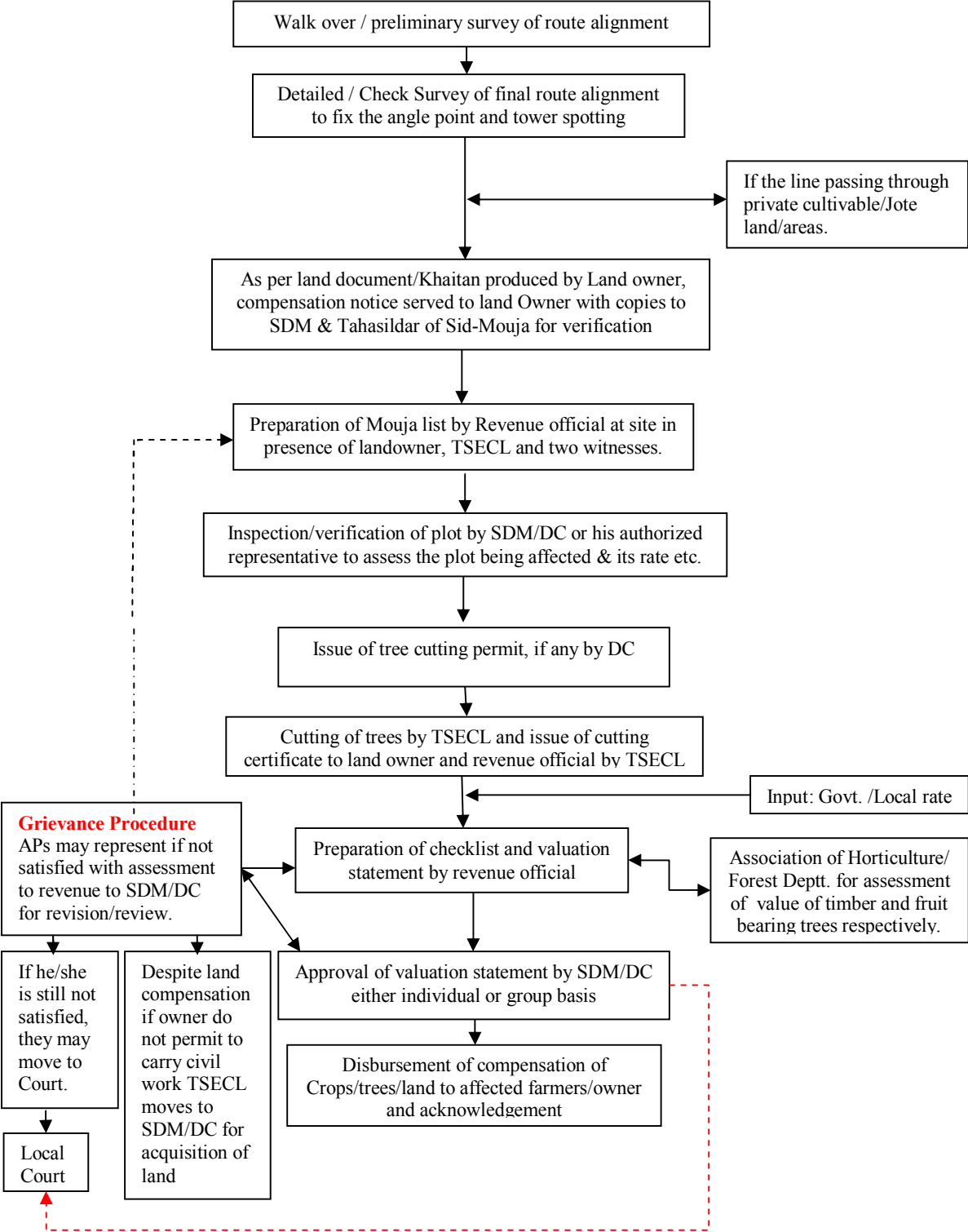
help of forest officials is taken and for fruit bearing trees help of Horticulture department is taken.

The Mouja list shall contain the land owner details including extent land area utilization for tower footing, 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 is 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/ a tree cutting permit to TSECL to enable removal / damage to the standing tree/crop identified in the line corridor. Similarly on the basis of enquiry report received from concerned Tehsildar, SDM issue land valuation certificate to TSECL for payment of compensation to land owner.

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.

On approval of compensation, the revenue officer shall further intimate the amount payable to the different landowners and TSECL arranges the payment by way of Demand Draft 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.

TREE / CROP/TOWER FOOTING COMPENSATION PROCESS



ANNEXURE – 4

***CONSERVATION STATUS OF IMPORTANT
FAUNA OF TRISHNA WILDLIFE SANCTUARY***

Conservation Status of Important Fauna of Trishna Wildlife Sanctuary

Trishna Wild life Sanctuary is located in South district of Tripura, having a total area of 194.71 km². The sanctuary consists of dense primary forest (62%) dominated by *Shorea robusta*, *Dipterocarpus turbinatus*, and *Terminalia belliraca*, degraded forest (18%) dominated by *Toona ciliate*, *Albizia procera* and busy forest (20%).

The main Mammalian species found in Trishna Wildlife Sanctuary are Asian Bison (*Bos gorus*), Wild Boar (*Sus scrofa*), Spectacle Monkey (*Trachypithecus phayrie*), Phayre's Leaf Monkey (*Presbytis phayrei*), Capped Langur (*Trachypithecus pileatus*), Slow loris (*Nycticebus coucang*), Wild Cat (*Felis chaus*), King Cobra (*Ophiophagus hannah*), Hoolock Gibbon (*Hylobates hoolock*), Leopard (*Panthera pardus*), Marbled Cat (*Felis marmorata*), Leopard Cat (*Felis bengalensis*), Golden Cat (*Felis temmincki*), Common Otter (*Lutra lutra*), Indian Elephant (*Elephas maximus*).

Common bird found in Trishna include species like Pheasant tailed Jacana (*Hydrophasianus chirurgus*), Red Jungle Fowl (*Gallus gallus*), White Breasted Kingfisher (*Halcyon smyrnensis*), Indian Black drongo (*Dicrurus macrocercus*), Tailed bird (*Orthotomus sutorius*), Jungle Myna (*Acridotheres fuscus*), Parrot (*Psittacine sp*), Eagle (*Hieraetus Spilogaster*), Hornbill (*Bucerotidae sp*), Dove (*Columbidae sp*).

Trishna Wild life Sanctuary is also home to about 59 butterfly species belonging to 48 genera and 5 families. These included species like *Papilio polytes*, *Papilio demoleus*, *Castalius rosimon*, *Eurema hecabe*, *Letha europa*, *Cepora nerissa*, *Castalius rosimon*, *Narathura selta*, *Baoris farri*, *Troides helena* and *Labadea martha*.

CONSERVATION STATUS OF IMPORTANT FAUNA OF SANCTUARY

| Sr. No. | Common Name | Scientific Name | IUCN Category |
|----------------------------|----------------------|---------------------------------|---------------|
| A. Mammals/Reptiles | | | |
| 1 | Asian Bison | <i>Bos gorus</i> | VU |
| 2 | Wild Boar | <i>Sus scrofa</i> | LC |
| 3 | Spectacle Monkey | | NT |
| 4 | Phayre's Leaf Monkey | <i>Trachypithecus phayrie</i> | EN |
| 5 | Capped Langur | <i>Trachypithecus pileatus</i> | VU |
| 6 | Slow loris | <i>Nycticebus coucang</i> | VU |
| 7 | Wild Cat | <i>Felis chaus</i> | LC |
| 8 | King Cobra | <i>Ophiophagus hannah</i> | VU |
| 9 | Hoolock Gibbon | <i>Hylobates hoolock</i> | EN |
| 10 | Leopard | <i>Panthera pardus</i> | NT |
| 11 | Marbled Cat | <i>Pardofelis marmorata</i> | VU |
| 12 | Leopard Cat | <i>Prionailurus bengalensis</i> | LC |
| 13 | Golden Cat | <i>Pardofelis temmincki</i> | NT |

| | | | |
|-----------------------|---------------------------|---------------------------------|----|
| 14 | Common Otter | <i>Lutra lutra</i> | NT |
| 15 | Indian Elephant | <i>Elephas maximus</i> | EN |
| B. Birds | | | |
| 17 | Pheasant tailed Jacana | <i>Hydrophasianus chirurgus</i> | LC |
| 18 | Red Jungle Fowl | <i>Gallus gallus</i> | LC |
| 19 | White Breasted Kingfisher | <i>Halcyon smyrnensis</i> | LC |
| 20 | Indian Black drongo | <i>Dicrurus macrocercus</i> | LC |
| 21 | Tailer bird | <i>Orthotomus sutorius</i> | LC |
| 22 | Jungle Myna | <i>Acridotheres fuscus</i> | LC |
| 23 | Parrot | <i>Psittacine sp</i> | LC |
| 24 | Eagle | <i>Hieraatus Spilogaster</i> | LC |
| 25 | Hornbil | <i>Bucerotidae sp</i> | LC |
| 26 | Dove | <i>Spilopelia chinensis</i> | LC |
| C. Butterflies | | | |
| 27 | | <i>Papilio polytes</i> | LC |
| 28 | | <i>Papilio demoleus</i> | LC |
| 29 | | <i>Castalius rosimon</i> | NA |
| 30 | | <i>Eurema hecabe</i> | NA |
| 31 | | <i>Letha europa</i> | NA |
| 32 | | <i>Cepora nerissa</i> | NA |
| 33 | | <i>Castalius rosimon</i> | NA |
| 34 | | <i>Narathura selta</i> | NA |
| 35 | | <i>Baoris farri</i> | NA |
| 36 | | <i>Troides helena</i> | NA |
| 37 | | <i>Labadea martha</i> | NA |

IUCN Red list Categories:

EX – Extinct

EW – Extinct in Wild

CR – Critically Endangered

EN – Endangered

VU – Vulnerable

NT – Near Threatened

LC – Least Concern

ANNEXURE – 5
SAFETY PLAN

13. FORM OF SAFETY PLAN TO BE SUBMITTED BY THE CONTRACTOR WITHIN SIXTY DAYS OF AWARD OF CONTRACT

[TO BE EXECUTED ON A NON JUDICIAL STAMP PAPER WORTH RS. TWENTY ONLY]

SAFETY PLAN

THIS SAFETY PLAN is made this day of 20..... by a Company registered under the Companies Act, 1956/Partnership firm/proprietary concern having its Registered Office at[*to be modified suitably for JV Contractor*] (hereinafter called as 'Contractor' which expression shall include its successors and permitted assigns) for approval of(*insert name of the Employer*)....., a company incorporated under the Companies Act, 1956 having its Registered Office at(*insert registered address of the Employer*)..... for its Contract for(*insert package name, project name alongwith Specification number of the Contract*).....

WHEREAS(*abbreviated name of the Employer*)..... has awarded to the Contractor the aforesaid Contract vide its Notification of Award/Contract No. datedand Amendment No. (applicable when amendments have been issued) (hereinafter called the "Contract") in terms of which the Contractor is required to submit 'Safety Plan' along with certain documents to the Engineer In-Charge/Project Manager of the Employer within Sixty (60) days of Notification of Award for its approval.

NOW THEREFORE, the Contractor undertakes to execute the Contract as per the safety plan as follows:

1. THAT the Contractor shall execute the works as per provisions of Bidding Documents including those in regard to Safety Precautions / provisions as per statutory requirements.
2. THAT the Contractor shall execute the works in a well planned manner from the commencement of Contract as per agreed mile stones of work completion schedule so that planning and execution of construction works goes smoothly and consistently through out the contract duration without handling pressure in last quarter of the financial year/last months of the Contract and the shall be finalized in association with EMPLOYER Engineer In-charge/Project Manager from time to time as required.
3. THAT the Contractor has prepared the safe work procedure for each activity i.e. foundation works including civil works, erection, stringing (as applicable), testing & commissioning, disposal of materials at site / store etc. to be executed at site, which is enclosed at **Annexure – 1A (SP)** for acceptance and approval of Engineer In-charge/Project Manager. The Contractor shall ensure that on approval of the same from Engineer In-charge/Project Manager , the approved copies will be circulated to Employer's personnel at site [Supervisor(s)/Executive(s)] and Contractor's personnel at site [Gang leader, supervisor(s) etc.] in their local language / language understood by gang.

THAT the Contractor has prepared minimum manpower deployment plan, activity wise as stated above, which is enclosed at **Annexure – 1B (SP)** for approval of Engineer In-charge/Project Manager.

4. THAT the Contractor shall ensure while executing works that they will deploy minimum 25% of their own experienced work force who are on the permanent roll of the company and balance 75% can be a suitable mix with the hired gangs / local workers / casual workers if required. The above balance 75% work force should be provided with at least 10 days training by the construction agencies at sites and shall be issued with a certificate. No worker shall be engaged without a valid certificate. Hired gang workers shall also follow safe working procedures and safety norms as is being followed by company's workmen. It should also be ensured by the contractor that certified fitters who are climbing towers / doing stringing operations can be easily identifiable with a system like issue of Badge / Identification cards (ID cards) etc. Colour identification batches should be worn by the workers. Contractor has to ensure that inexperienced workers / unskilled workers should not be deployed for skilled job.
5. THAT the Contractor's Gang leader / Supervisor / Senior most member available at every construction site shall brief to each worker daily before start of work about safety requirement and warn about imminent dangers and precautions to be taken against the imminent dangers (Daily Safety Drill). This is to be ensured without fail by Contractor and maintain record of each gang about daily safety instructions issued to workers and put up to EMPLOYER site In-charge for his review and record.
6. THAT the Contractor shall ensure that working Gangs at site should not be left at the discretion of their Gang Leaders who are generally hired and having little knowledge about safety. Gang leader should be experienced and well versed with the safe working procedures applicable for transmission line/ Sub Station works. In case gang is having Gang leader not on permanent roll of the company then additional Supervisor from company's own roll having thorough knowledge about the works would be deployed so as to percolate safety instructions up to the grass root level in healthy spirits. Contractor has to ensure close supervision while executing critical locations of transmission lines / sub stations and ensures that all safety instructions are in place and are being followed.
7. THAT the Contractor shall maintain in healthy and working condition all kind of Equipments / Machineries / Lifting tools / Lifting tackles / Lifting gears / All kind of Ropes including wire ropes / Polypropylene ropes etc. used for Lifting purpose during execution of the project and get them periodically examined and load tested for safe working load in accordance with relevant provisions and requirement of Building & other construction workers Regulation of Employment and Conditions of Services Act and Central Rule 1998, Factories Act 1948, Indian Electricity Act 2003 before start of the project. A register of such examinations and tests shall be properly maintained by the contractor and will be promptly produced as and when desired by the Engineer In-charge/Project Manager or by the person authorised by him. The Contractor has to ensure to give special attention on the formation / condition of eye splices of wire rope slings as per requirement of IS 2762 Specification for wire rope slings and sling legs.

THAT the Contractor has prepared a list of all Lifting machines, lifting Tools / Lifting Tackles / Lifting Gears etc. / All types of ropes and Slings which are subject to safe working load is enclosed at **Annexure – 2 (SP)** for review and approval of Engineer In-charge/Project Manager.

8. THAT the Contractor has to procure sufficient quantity of Personal Protective Equipment (PPE) conforming to Indian / International standards and provide these equipment to every workman at site as per need and to the satisfaction of Engineer-in-charge/Project Manager of EMPLOYER. The Contractor's Site Supervisor/ Project Manager has to ensure that all workmen must use Personal Protective Equipment at site. The Contractor shall also ensure that Industrial Safety helmets are being used by all workmen at site irrespective of their working (at height or on ground). The Contractor shall further ensure use of safety shoes by all ground level workers and canvas shoes for all workers working at height, Rubber Gum Boots for workers working in rainy season and concreting job, Use of Twin Lanyard Full body Safety Harness with attachment of light weight such as aluminium alloy etc. and having features of automatic locking arrangement of snap hook, by all workers working at height for more than three meters and also for horizontal movement on tower shall be ensured by contractor. The Contractor shall not use ordinary half body safety harness at site. The Contractor has to ensure use of Retractable type fall arrestors by workers for ascending / descending on suspension insulator string and other similar works etc., Use of Mobile fall arrestor for ascending / descending from tower by all workers. The contractor has to provide cotton / leather hand gloves as per requirement, Electrical Resistance Hand gloves for operating electrical installations / switches, Face shield for protecting eyes while doing welding works and Dust masks to workers as per requirement. The Contractor will have to take action against the workers not using Personal Protective Equipment at site and those workers shall be asked to rest for that day and also their Salary be deducted for that day. EMPLOYER may issue warning letter to Project Manager of contractor in violation of above norms.

THAT the Contractor shall prepare a detailed list of PPEs, activity wise, to commensurate with manpower deployed, which is enclosed at **Annexure – 3 (SP)** for review and approval of Engineer In-charge/Project Manager. It shall also be ensured that the sample of these equipment shall be got approved from EMPLOYER supervisory staff before being distributed to workers. The contractor shall submit relevant test certificates as per IS / International Standard as applicable to PPEs used during execution of work. All the PPE's to be distributed to the workers shall be checked by EMPLOYER supervisory staff before its usage.

The Contractor also agrees for addition / modification to the list of PPE, if any, as advised by Engineer In-Charge/Project Manager.

9. THAT the Contractor shall procure, if required sufficient quantity of Earthing Equipment / Earthing Devices complying with requirements of relevant IEC standards (Generally IECs standards for Earthing Equipments / Earthing Devices are – 855, 1230, 1235 etc.) and to the satisfaction of Engineer In-Charge/ Project Manager and contractor to ensures to maintained them in healthy condition.

THAT the Contractor has prepared / worked out minimum number of healthy Earthing Equipments with Earthing lead confirming to relevant IS / European standards per gang wise during stringing activity/as per requirement, which is enclosed herewith at **Annexure – 4 (SP)** for review and acceptance of Engineer In-Charge/ Project Manager prior to execution of work.

10. THAT the Contractor shall provide communication facilities i.e. Walky – Talkie / Mobile Phone, Display of Flags / whistles for easy communication among workers during Tower erection / stringing activity, as per requirement.
11. THAT the Contractor undertakes to deploy qualified safety personnel responsible for safety as per requirements of Employer/Statutory Authorities.

THAT the Contractor employing more than 250 workmen whether temporary, casual, probationer, regular or permanent or on contract, shall employ at least one full time officer exclusively as qualified safety officer having diploma in safety to supervise safety aspects of the equipment and workmen who will coordinate with Engineer In-charge /Project Manager/Safety Coordinator of the Employer. In case of work being carried out through sub contractors the sub – contractor’s workmen / employees will also be considered as the contractor’s employees / workmen for the above purpose. If the number of workers are less than 250 then one qualified safety officer is to be deployed for each contract. He will report directly to his head of organization and not the Project Manager of contractor He shall also not be assigned any other work except assigning the work of safety. The curriculum vitae of such person shall be got cleared from EMPLOYER Project Manager / Construction staff.

The name and address of such safety officers of contractor will be promptly informed in writing to Engineer In-charge with a copy to safety officer - In-charge before start of work or immediately after any change of the incumbent is made during the currency of the contract. The list is enclosed at **Annexure – 5A (SP)**.

THAT the Contractor has also prepared a list including details of Explosive Operator (if required), Safety officer / Safety supervisor / nominated person for safety for each erection / stringing gang, list of personnel trained in First Aid Techniques as well as copy of organisation structure of the Contractor in regard to safety. The list is enclosed at **Annexure – 5B (SP)**.

12. The Project Manager shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property, and/or equipment. In such cases, the Contractor shall be informed in writing about the nature of hazards and possible injury/accident and he shall comply to remove shortcomings promptly. The Contractor after stopping the specific work can, if felt necessary, appeal against the order of stoppage of work to the Project Manager within 3 days of such stoppage of work and decision of the Project Manager in this respect shall be conclusive and binding on the Contractor.
13. THAT, if, any Employer’s Engineer/ supervisor at site observes that the Contractor is failing to provide safe working environment at site as per agreed Safety Plan / EMPLOYER Safety Rule/ Safety Instructions / Statutory safety requirement and creates hazardous conditions at site and there is possibility of an accident to workmen or workmen of the other contractor or public or the work is being carried out in an un safe manner or he continues to work even after being instructed to stop the work by Engineer / Supervisor at site / RHQ / Corp. Centre, the Contractor shall be bound to pay a penalty of Rs. 10,000/ - per incident per day till the instructions are complied and as certified by Engineer / Supervisor of Employer at site. The work will remain suspended and no activity will take

place without compliance and obtaining clearance / certification of the Site Engineer / Supervisor of the Employer to start the work.

14. THAT, if the investigation committee of Employer observes any accident or the Engineer In-charge/Project Manager of the Employer based on the report of the Engineer/Supervisor of the Employer at site observes any failure on the Contractor's part to comply with safety requirement / safety rules/ safety standards/ safety instruction as prescribed by the Employer or as prescribed under the applicable law for the safety of the equipment, plant and personnel and the Contractor does not take adequate steps to prevent hazardous conditions which may cause injury to its own Contractor's employees or employee of any other Contractors or Employer or any other person at site or adjacent thereto, or public involvement because of the Contractor's negligence of safety norms, the Contractor shall be liable to pay a compensation of Rs. 10,00,000/- (Rupees Ten Lakh only) per person affected causing death and Rs. 1,00,000/- (Rupees One Lakh only) per person for serious injuries / 25% or more permanent disability to the Employer for further disbursement to the deceased family/ Injured persons. The permanent disability has the same meaning as indicated in Workmen's Compensation Act 1923. The above stipulations is in addition to all other compensation payable to sufferer as per workmen compensation Act / Rules

THAT as per the Employer's instructions, the Contractor agrees that this amount shall be deducted from their running bill(s) immediately after the accident, That the Contractor understands that this amount shall be over and above the compensation amount liable to be paid as per the Workmen's Compensation Act /other statutory requirement/ provisions of the Bidding Documents.

15. THAT the Contractor shall submit Near-Miss-Accident report along with action plan for avoidance such incidence /accidents to Engineer – In-charge/ Project Manager. Contractor shall also submit Monthly Safety Activities report to Engineer – In-charge/ Project Manager and copy of the Monthly Safety Activities report also to be sent to Safety In-charge at RHQ of the Employer for his review record and instructions.
16. THAT the Contractor is submitting a copy of Safety Policy/ Safety Documents of its Company which is enclosed at **Annexure – 6 (SP)** and ensure that the safety Policy and safety documents are implemented in healthy spirit.
17. THAT the Contractor shall make available of First Aid Box [Contents of which shall be as per Building & other construction workers (Regulation of Employment and Conditions of Services Act and Central Rule 1998 / EMPLOYER Guidelines)] to the satisfaction of Engineer In-Charge/ Project Manager with each gang at site and not at camp and ensures that trained persons in First Aid Techniques with each gang before execution of work.
18. THAT the Contractor shall submit an 'Emergency Preparedness Plan' for different incidences i.e. Fall from height, Electrocution, Sun Stroke, Collapse of pit, Collapse of Tower, Snake bite, Fire in camp / Store, Flood, Storm, Earthquake, Militancy etc. while carrying out different activities under execution i.e. foundation works including civil works, erection, stringing (as applicable), testing & commissioning, disposal of materials at site / store etc. which is enclosed at **Annexure – 7 (SP)** for approval of the Engineer In-Charge/ Project Manager before start of work.

19. THAT the Contractor shall organise Safety Training Programs on Safety, Health and Environment and for safe execution of different activities of works i.e. foundation works including civil works, erection, stringing (as applicable), testing & commissioning, disposal of materials at site / store etc. for their own employees including sub contractor workers on regular basis.

The Contractor, therefore, submits copy of the module of training program, enclosed at **Annexure – 9 (SP)**, to Engineer In-charge/Project Manager for its acceptance and approval and records maintained.

20. THAT the Contractor shall conduct safety audit, as per Safety Audit Check Lists enclosed at **Annexure – 8 (SP)**, by his Safety Officer(s) every month during construction of Transmission Lines / Sub Stations / any other work and copy of the safety audit report will be forwarded to the Employer's Engineer In-charge / Site In-charge/Project Manager for his comments and feedback. During safety audit, healthiness of all Personal Protective Equipments (PPEs) shall be checked individually by safety officer of contractor and issue a certificate of its healthiness or rejection of faulty PPEs and contractor has to ensure that all faulty PPEs and all faulty lifting tools and tackles should be destroyed in the presence of EMPLOYER construction staff. Contractor has to ensure that each gang be safety audited at least once in two months. During safety audit by the contractor, Safety officer's feedback from EMPLOYER concerned shall be taken and recorded. The Employer's site officials shall also conduct safety audit at their own from time to time when construction activities are under progress. Apart from above, the Employer may also conduct surveillance safety audits. The Employer may take action against the person / persons as deemed fit under various statutory acts/provisions under the Contract for any violation of safety norms / safety standards.
21. THAT the Contractor shall develop and display Safety Posters of construction activity at site and also at camp where workers are generally residing.
22. THAT the Contractor shall ensure to provide potable and safe drinking water for workers at site / at camp.
23. THAT the Contractor shall do health check up of all workers from competent agencies and reports will be submitted to Engineer In-Charge within fifteen (15) days of health check up of workers as per statutory requirement.
24. THAT the Contractor shall submit information along with documentary evidences in regard to compliance to various statutory requirements as applicable which are enclosed at **Annexure – 10A (SP)**.

The Contractor shall also submit details of Insurance Policies taken by the Contractor for insurance coverage against accident for all employees are enclosed at **Annexure – 10B (SP)**.

25. THAT a check-list in respect of aforesaid enclosures along with the Contractor's remarks, wherever required, is attached as **Annexure – Check List** herewith.

THE CONTRACTOR shall incorporate modifications/changes in this 'Safety Plan' necessitated on the basis of review/comments of the Engineer In-Charge/Project Manager within fourteen (14) days of receipt of review/comments and on final approval of the Engineer In-Charge/Project Manager of this 'Safety Plan', the Contractor shall execute the works under the Contract as per approved 'Safety Plan'. Further, the Contractor has also noted that the first progressive payment towards Services Contract shall be made on submission of 'Safety Plan' along with all requisite documents and approval of the same by the Engineer In-Charge/Project Manager.

IN WITNESS WHEREOF, the Contractor has hereunto set its hand through its authorised representative under the common seal of the Company, the day, month and year first above mentioned.

For and on behalf of

M/s.....

WITNESS

1. Signature.....

Signature.....

Name.....

Name.....

Address.....

Address.....

2. Signature.....

Authorised representative

Name.....

(Common Seal)

Address.....

(In case of Company)

Note:

All the annexure referred to in this "Safety Plan" are required to be enclosed by the contractor as per the attached "Check List "

1. Safety Plan is to be executed by the authorised person and (i) in case of contracting Company under common seal of the Company or (ii) having the power of attorney issued under common seal of the company with authority to execute such contract documents etc., (iii) In case of (ii), the original Power of Attorney if it is specifically for this Contract or a Photostat copy of the Power of Attorney if it is General Power of Attorney and such documents should be attached to this Safety Plan.
2. For all safety monitoring/ documentation, Engineer In-charge / Regional In-charge of safety at RHQ will be the nodal Officers for communication.

CHECK LIST FOR SEFETY PLAN

| S. N. | Details of Enclosure | Status of Submission of information/ documents | Remarks |
|-------|---|--|---------|
| 1. | <p>Annexure – 1A (SP)</p> <p>Safe work procedure for each activity i.e. foundation works including civil works, erection, stringing (as applicable), testing & commissioning, disposal of materials at site / store etc. to be executed at site.</p> | Yes/No | |
| 2. | <p>Annexure – 1B (SP)</p> <p>Manpower deployment plan, activity wise foundation works including civil works, erection, stringing (as applicable), testing & commissioning, disposal of materials at site / store etc.</p> | Yes/No | |
| 3. | <p>Annexure – 2 (SP)</p> <p>List of Lifting Machines i.e. Crane, Hoist, Triffor, Chain Pulley Blocks etc. and Lifting Tools and Tackles i.e. D shackle, Pulleys, come along clamps, wire rope slings etc. and all types of ropes i.e. Wire ropes, Poly propylene Rope etc. used for lifting purposes along with test certificates.</p> | Yes/No | |
| 4. | <p>Annexure – 3 (SP)</p> <p>List of Personal Protective Equipment (PPE), activity wise including the following along with test certificate of each as applicable:</p> <ol style="list-style-type: none"> 1. Industrial Safety Helmet to all workmen at site. (EN 397 / IS 2925) with chin strap and back stay arrangement. 2. Safety shoes without steel toe to all ground level workers and canvas shoes for workers working on tower. 3. Rubber Gum Boot to workers working in rainy season / concreting job. 4. Twin lanyard Full Body Safety harness with shock absorber and leg strap arrangement | Yes/No | |

| S. N. | Details of Enclosure | Status of Submission of information/ documents | Remarks |
|-------|--|--|---------|
| | <p>for all workers working at height for more than three meters. Safety Harness should be with attachments of light weight such as of aluminium alloy etc. and having a feature of automatic locking arrangement of snap hook and comply with EN 361 / IS 3521 standards.</p> <p>5. Mobile fall arrestors for safety of workers during their ascending / descending from tower / on tower. EN 353 -2 (Guided type fall arresters on a flexible anchorage line.)</p> <p>6. Retractable type fall arrestor (EN360: 2002) for ascending / descending on suspension insulator string etc.</p> <p>7. Providing of good quality cotton hand gloves / leather hand gloves for workers engaged in handling of tower parts or as per requirement at site.</p> <p>8. Electrical Resistance hand gloves to workers for handling electrical equipment / Electrical connections. IS : 4770</p> <p>9. Dust masks to workers handling cement as per requirement.</p> <p>10. Face shield for welder and Grinders. IS : 1179 / IS : 2553</p> <p>11. Other PPEs, if any, as per requirement etc.</p> | | |
| 5. | <p>Annexure – 4 (SP)</p> <p>List of Earthing Equipment / Earthing devices with Earthing lead conforming to IECs for earthing equipments are – (855, 1230, 1235 etc.) gang wise for stringing activity/as per requirement</p> | Yes/No | |
| 6. | <p>Annexure – 5A (SP)</p> <p>List of Qualified Safety Officer(s) along with their contact details</p> | Yes/No | |
| 7. | <p>Annexure – 5B (SP)</p> <p>Details of Explosive Operator (if required), Safety officer / Safety supervisor for every erection / stringing gang, any other person nominated for safety, list of personnel trained in First Aid as well as brief information about safety set up by the</p> | Yes/No | |

ANNEXURE – 6
SAFETY CONDITIONS IN CONTRACT
DOCUMENT

ordered by the Employer consistent with the requirements of the Contract.

PC 21.4 Replace the word '**materials**' in line no. 2 with '**Plant and Equipment**'.

Add the word '**including liabilities for port charges if any**' after the word '**clearance**' in line no. 3.

Addition of Sub-Clauses (PC22.2.3.1, PC22.2.3.2, PC22.2.3.3, PC 22.2.3.4) of GC 22.2.3

PC 22.2.3.1 Compliance with Labour Regulations

During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all applicable existing labour enactments and rules made thereunder, regulations notifications and byelaws of the State or Central Government or local authority and any other labour law (including rules), regulations bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The employees of the Contractor and the Sub-contractor in no case shall be treated as the employees of the Employer at any point of time.

PC 22.2.3.2 The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments.

PC 22.2.3.3 If the Employer is caused to pay under any law as principal employer such amounts as may be necessary to cause or observe, or for non observance of the provisions stipulated in the notifications/ byelaws/Acts/ Rules/regulations including amendments, if any, on the part of the Contractor, the Employer shall have the right to deduct any money due to the Contractor under this contract or any other contract with the employer including his amount of performance security for adjusting the aforesaid payment. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

PC 22.2.3.4 Salient features of some major laws applicable to establishments engaged in building and other construction works are indicated at **Appendix-I** to PC.

Addition of New Sub-Clauses (PC22.4.1 to 22.4.3 including its sub-clauses) of GC 22.4

PC 22.4.1 **Protection of Environment**

The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other

causes arising as consequence of his methods of operation.

During continuance of the Contract, the Contractor and his Sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

Salient features of some of the major laws that are applicable are given below:

The Water (Prevention and Control of Pollution) Act, 1974, This provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

The Air (Prevention and Control of Pollution) Act, 1981, This provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.

The Environment (Protection) Act, 1986, This provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.

The Public Liability Insurance Act, 1991, This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under Environment (Protection) Act, 1986, and exceeding such quantity as may be specified by notification by the Central Government.

PC 22.4.2

- (i) The Contractor shall (a) establish an operational system of managing environmental impacts, (b) carry out all the monitoring and mitigation measures set forth in the environment management plan attached to the Particular Conditions as Appendix-I, and (c) allocate the budget required

to ensure that such measures are carried out. The Contractor shall submit to the Employer (quarterly) semi-annual) reports on the carrying out of such measures.

- (ii) The Contractor shall adequately record the conditions of roads, agricultural land and other infrastructure prior to transport of material and construction commencement, and shall fully reinstate pathways, other local infrastructure and agricultural land to atleast their pre-project condition upon construction completion.
- (iii) The Contractor shall undertake detailed survey of the affected persons during transmission line alignment finalization under the Project, where applicable. and
- (iv) The Contractor shall conduct health and safety programme for workers employed under the Contract and shall include information on the risk of sexually transmitted diseases, including HIV/AIDS in such programs.

PC 22.4.3 Safety Precautions

PC 22.4.3.1 The Contractor shall observe all applicable regulations regarding safety on the Site.

Unless otherwise agreed, the Contractor shall, from the commencement of work on Site until taking over, provide:

- a) fencing, lighting, guarding and watching of the Works wherever required, and
- b) temporary roadways, footways, guards and fences which may be necessary for the accommodation and protection of Employer / his representatives and occupiers of adjacent property, the public and others.

PC 22.4.3.2 The Contractor shall ensure proper safety of all the workmen, materials, plant and equipment belonging to him or to THE EMPLOYER or to others, working at the Site. The Contractor shall also be responsible for provision of all safety notices and safety equipment required both by the relevant legislations and the Engineer, as he may deem necessary.

PC 22.4.3.3 The Contractor will notify well in advance to the Engineer of his intention to bring to the Site any container filled with liquid or gaseous fuel or explosive or petroleum substance or such chemicals which may involve hazards. The Engineer shall have the right to prescribe the conditions, under which such container is to be stored, handled and used during the performance of the works and the Contractor shall strictly adhere to and comply with such

instructions. The Engineer shall have the right at his sole discretion to inspect any such container or such construction, plant/equipment for which material in the container is required to be used and if in his opinion, its use is not safe, he may forbid its use. No claim due to such prohibition shall be entertained by the Owner and the Owner shall not entertain any claim of the Contractor towards additional safety provisions/conditions to be provided for/constructed as per the Engineer's instructions.

Further, any such decision of the Engineer shall not, in any way, absolve the Contractor of his responsibilities and in case, use of such a container or entry thereof into the Site area is forbidden by the Engineer, the Contractor shall use alternative methods with the approval of the Engineer without any cost implication to THE EMPLOYER or extension of work schedule.

- PC 22.4.3.4 Where it is necessary to provide and/or store petroleum products or petroleum mixtures and explosives, the Contractor shall be responsible for carrying-out such provision and/or storage in accordance with the rules and regulations laid down in Petroleum Act 1934, Explosives Act, 1948 and Petroleum and Carbide of Calcium Manual published by the Chief Inspector of Explosives of India. All such storage shall have prior approval of the Engineer. In case, any approvals are necessary from the Chief Inspector (Explosives) or any statutory authorities, the Contractor shall be responsible for obtaining the same.
- PC 22.4.3.5 All equipment used in construction and erection by Contractor shall meet Indian/International Standards and where such standards do not exist, the Contractor shall ensure these to be absolutely safe. All equipment shall be strictly operated and maintained by the Contractor in accordance with manufacturer's Operation Manual and safety instructions and as per Guidelines/rules of THE EMPLOYER in this regard.
- PC 22.4.3.6 Periodical examinations and all tests for all lifting/hoisting equipment & tackles shall be carried-out in accordance with the relevant provisions of Factories Act 1948, Indian Electricity Act 1910 and associated Laws/Rules in force from time to time. A register of such examinations and tests shall be properly maintained by the Contractor and will be promptly produced as and when desired by the Engineer or by the person authorised by him.
- PC 22.4.3.7 The Contractor shall be fully responsible for the safe storage of his and his Sub-Contractor's radioactive sources in accordance with BARC/DAE Rules and other applicable provisions. All precautionary measures stipulated by

BARC/DAE in connection with use, storage and handling of such material will be taken by the Contractor.

- PC 22.4.3.8 The Contractor shall provide suitable safety equipment of prescribed standard to all employees and workmen according to the need, as may be directed by the Engineer who will also have right to examine these safety equipment to determine their suitability, reliability, acceptability and adaptability.
- PC 22.4.3.9 Where explosives are to be used, the same shall be used under the direct control and supervision of an expert, experienced, qualified and competent person strictly in accordance with the Code of Practice/Rules framed under Indian Explosives Act pertaining to handling, storage and use of explosives.
- PC 22.4.3.10 The Contractor shall provide safe working conditions to all workmen and employees at the Site including safe means of access, railings, stairs, ladders, scaffoldings etc. The scaffoldings shall be erected under the control and supervision of an experienced and competent person. For erection, good and standard quality of material only shall be used by the Contractor.
- PC 22.4.3.11 The Contractor shall not interfere or disturb electric fuses, wiring and other electrical equipment belonging to the Owner or other Contractors under any circumstances, whatsoever, unless expressly permitted in writing by THE EMPLOYER to handle such fuses, wiring or electrical equipment
- PC 22.4.3.12 Before the Contractor connects any electrical appliances to any plug or socket belonging to the other Contractor or Owner, he shall:
- a. Satisfy the Engineer that the appliance is in good working condition;
 - b. Inform the Engineer of the maximum current rating, voltage and phases of the appliances;
 - c. Obtain permission of the Engineer detailing the sockets to which the appliances may be connected.
- PC 22.4.3.13 The Engineer will not grant permission to connect until he is satisfied that:
- a. The appliance is in good condition and is fitted with suitable plug;
 - b. The appliance is fitted with a suitable cable having two earth conductors, one of which shall be an

earthed metal sheath surrounding the cores.

- PC 22.4.3.14 No electric cable in use by the Contractor/Owner will be disturbed without prior permission. No weight of any description will be imposed on any cable and no ladder or similar equipment will rest against or attached to it.
- PC 22.4.3.15 No repair work shall be carried out on any live equipment. The equipment must be declared safe by the Engineer and a permit to work shall be issued by the Engineer before any repair work is carried out by the Contractor. While working on electric lines/equipment, whether live or dead, suitable type and sufficient quantity of tools will have to be provided by the Contractor to electricians/workmen/officers.
- PC 22.4.3.16 The Contractors shall employ necessary number of qualified, full time electricians/electrical supervisors to maintain his temporary electrical installation.
- PC 22.4.3.17 The Contractor employing more than 250 workmen whether temporary, casual, probationer, regular or permanent or on contract, shall employ at least one full time officer exclusively as safety officer to supervise safety aspects of the equipment and workmen, who will coordinate with the Project Safety Officer. In case of work being carried out through Sub-Contractors, the Sub-Contractor's workmen/employees will also be considered as the Contractor's employees/workmen for the above purpose.
- The name and address of such Safety Officers of the Contractor will be promptly informed in writing to Engineer with a copy to Safety Officer-In charge before he starts work or immediately after any change of the incumbent is made during currency of the Contract.
- PC 22.4.3.18 In case any accident occurs during the construction/erection or other associated activities undertaken by the Contractor thereby causing any minor or major or fatal injury to his employees due to any reason, whatsoever, it shall be the responsibility of the Contractor to promptly inform the same to the Engineer in prescribed form and also to all the authorities envisaged under the applicable laws.
- PC 22.4.3.19 The Engineer shall have the right at his sole discretion to stop the work, if in his opinion the work is being carried out in such a way that it may cause accidents and endanger the safety of the persons and/or property, and/or equipment. In such cases, the Contractor shall be informed in writing about the nature of hazards and

possible injury/accident and he shall comply to remove shortcomings promptly. The Contractor after stopping the specific work can, if felt necessary, appeal against the order of stoppage of work to the Engineer within 3 days of such stoppage of work and decision of the Engineer in this respect shall be conclusive and binding on the Contractor.

PC 22.4.3.20 The Contractor shall not be entitled, for any damages/compensation for stoppage of work due to safety reasons as provided in para GCC 22.4.3.19 above and the period of such stoppage of work will not be taken as an extension of time for completion of work and will not be the ground for waiver of levy of liquidated damages.

PC 22.4.3.21 It is mandatory for the Contractor to observe during the execution of the works: requirements of Safety Rules which would generally include but not limited to following:

Safety Rules.

- a) Each employee shall be provided with initial indoctrination regarding safety by the Contractor, so as to enable him to conduct his work in a safe manner.
- b) No employee shall be given a new assignment of work unfamiliar to him without proper introduction as to the hazards incident thereto, both to himself and his fellow employees.
- c) Under no circumstances shall an employee hurry or take unnecessary chance when working under hazardous conditions.
- d) Employees must not leave naked fires unattended. Smoking shall not be permitted around fire prone areas and adequate fire fighting equipment shall be provided at crucial location.
- e) Employees under the influence of any intoxicating beverage, even to the slightest degree shall not be permitted to remain at work.
- f) There shall be a suitable arrangement at every work site for rendering prompt and sufficient first aid to the injured.
- g) The staircases and passageways shall be adequately lighted.
- h) The employees when working around moving machinery, must not be permitted to wear loose

EMPLOYER employees or any other person who are at Site or adjacent thereto, then the Contractor shall be responsible for payment of a sum as indicated below to be deposited with THE EMPLOYER, which will be passed on by THE EMPLOYER to such person or next to kith and kin of the deceased:

| | | |
|----|--|----------------------------|
| a. | Fatal injury or accident causing death | Rs. 1,000,000/- per person |
| b. | Major injuries or accident causing 25% or more permanent disablement | Rs. 100,000/- per person |

Permanent disablement shall have same meaning as indicated in Workmen's Compensation Act. The amount to be deposited with THE EMPLOYER and passed on to the person mentioned above shall be in addition to the compensation payable under the relevant provisions of the Workmen's Compensation Act and rules framed there under or any other applicable laws as applicable from time to time. In case the Contractor does not deposit the above mentioned amount with THE EMPLOYER, such amount shall be recovered by THE EMPLOYER from any monies due or becoming due to the Contractor under the contract or any other on-going contract.

PC22.4.3.25 If the Contractor observes all the Safety Rules and Codes, Statutory Laws and Rules during the currency of Contract awarded by the Owner and no accident occurs then THE EMPLOYER may consider the performance of the Contractor and award suitable 'ACCIDENT FREE SAFETY MERITORIOUS AWARD' as per scheme as may be announced separately from time to time.

PC22.4.3.26 The Contractor shall also submit 'Safety Plan' as per proforma specified in Section IX: Contract Forms, Part-3 of Bidding Documents alongwith all the requisite documents mentioned therein and as per check-list contained therein to the Engineer In-Charge for its approval within 60 days of award of Contract.

Further, one of the conditions for release of first progressive payment / subsequent payment towards Services Contract shall be submission of 'Safety Plan' alongwith all requisite documents and approval of the same by the Engineer In-Charge.

PC 22.6 Emergency Work (GC Clause 22.6)

Replace the words "Otherwise" with "In case such work is not in the scope of the Contractor", in the second last line of second paragraph of GC clause 22.6.

PC 23.3 Supplementing sub-clause GC 23.3

For notification of testing, four weeks shall be deemed as reasonable advance notice.

PC 23.7 Test and Inspection (GC Clause 23.7)

Replace the words "GC Sub-Clause 6.1" with "GC Sub-Clause 46.1", in the last line of GC clause 23.7.

PC 24 Replace the marginal words/headings 'Completion of the Facilities' with 'Pre Commissioning'**PC 24.5 Replace sub clause GC 24.5 with the following:**

The Project Manager shall, within fourteen (14) days after receipt of the Contractor's notice under sub clause GC 24.4, notify the Contractor in writing of any defects and/or deficiencies.

If the Project Manager notifies the Contractor of any defects and/or deficiencies, the Contractor shall then correct such defects and/or deficiencies, and shall repeat the procedure described in sub clause GC 24.4. If the Project Manager is satisfied that the Facilities or that part thereof have passed Pre-commissioning, the Project Manager shall, within fourteen (14) days after receipt of the Contractor's notice/ seven (7) days after receipt of the Contractor's repeated notice, advise the Contractor to proceed with the Commissioning of the Facilities or that part thereof. If the Project Manager is not so satisfied, then it shall notify the Contractor in writing of any defects and/or deficiencies within seven (7) days after receipt of the Contractor's repeated notice, and the above procedure shall be repeated.

PC 24.6 Replacing Sub-Clause GC 24.6

If the Project Manager fails to advise the Contractor to proceed with the Commissioning of the Facilities or the relevant part thereof or inform the Contractor of any defects and/or deficiencies within fourteen (14) days after receipt of the Contractor's notice under GC Sub-Clause 24.4 or within seven (7) days after receipt of the Contractor's repeated notice under GC Sub-Clause 24.5, then the Facilities or that part thereof shall be deemed to have passed Precommissioning, as of the date of the Contractor's notice or repeated notice, as the case may be.

PC 24.7 Replace the word 'Completion' with 'Pre-commissioning' in the 1st line of sub clause GC 24.7

ANNEXURE - 7
HEALTH AND SAFETY CHECKLIST

HEALTH AND SAFETY CHECKLIST

Safety Related Check List during Construction of Transmission Lines/Distribution Lines

Region: Date of Safety Audit:.....

Name of Transmission/Distribution Line:
.....
.....

Loc. No: Voltage Level:

Name of Contractor:

Contractor License / Registration No.:.....Validity.....

Name of Sub Contractor :

Sub-Contractor License / Registration
No.:.....Validity.....

I. DURING TOWER FOUNDATION :

| SN | Description of Activity | Feed back | Remarks |
|-----------------|---|-----------|---------|
| i) Excavation : | | | |
| 1. | Dumping of Excavated soil. (Minimum 1.5 Mts. or half the depth of the pit which ever is more) | Yes / No. | |
| 2. | Whether angle of repose of soil as per design in the foundation is maintained or not. | Yes / No. | |
| 3. | De watering arrangement is available (If necessary) | Yes / No. | |
| 4. | Working area has been protected properly to avoid against fall of passerby or animal in the excavated pit. | Yes / No. | |
| 5 | Shoring & Shuttering to protect the loose rock / soil against fall exists. | Yes / No. | |
| 6 | Arrangement of illumination at construction site is available. (if required) | Yes / No. | |
| 7 | Check proper/adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection for De-watering Pumps/ Illumination / Electric compressors etc. if applicable). | Yes / No. | |
| 8 | Check for damage / Uneven settlement of foundation. | Yes / No. | |
| 9 | Ensure Life saver arrangements have been made during construction of well foundation in river bed. (Where necessary) | Yes / No. | |
| 10 | Check that the adequate arrangement is made for the storage of blasting material at safe place. (if required) | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|--|---|-----------|---------|
| 11 | Check that the blasting materials is handled with due care at site. (If required) | Yes / No. | |
| 12 | Check that during blasting operation, Labour / Workmen / Passerby are at safe places and arrangement is made to inform public by caution markings (Red Flag) / Public Notices. | Yes / No. | |
| 13 | Check that the Blaster is holding the proper license issued by the appropriate authority. as per the Indian Explosive Act. | Yes / No. | |
| 14 | Check that the length of the fuse wire used during blasting operation is adequate. | Yes / No. | |
| 15 | Ensure Laying of temporary cable used for operation of Machines used during construction should not cause any danger for electrocution of workmen. | Yes / No. | |
| 16 | Check that PPEs i.e. Safety helmets, Safety Shoes, is used by blaster and their gang members during blasting. | Yes / No. | |
| 17 | Ensure that Shuttering and timbering has been made as detailed in I:S: 3764. | Yes / No. | |
| 18 | Ensure that before undertaking excavation, the soil has been tested and in case of availability of any explosive / dangerous gas, necessary arrangement must be made to remove / dilute such gases. | Yes / No. | |
| 19 | The positions of underground installations such as sewers, water pipes and electrical cables have been verified and in case of their existence, they must be isolated. | Yes / No. | |
| 20 | Arrangement shall be made to prevent external vibrations due to rail / road traffic (If required). | Yes / No. | |
| 21 | Safety is ensured during the construction of Tr. Lines for buildings, structures etc. which are coming in the vicinity of the excavated area from collapse. (If required) | Yes / No. | |
| 22 | Check that sufficient strong ladder of suitable length is available for ingress / outgress of persons in the pit | Yes / No. | |
| 23 | Lone worker should not be allowed to work in the excavated area beyond shoulder level. | Yes / No. | |
| 24 | Check for any possibility of seepage of water from nearby pond / river should be estimated and taken care of. | Yes / No. | |
| 25 | After excavation the work has been completed speedily and back filling done at the earliest. | Yes / No. | |
| ii) Casting of Foundation / Concreting : | | | |
| 1 | Check construction materials are stacked at safe place and also does not cause any danger. (Away from pit by 1.5 Mtrs. Or half the depth of pit, which ever is more.) | Yes / No. | |
| 2 | Check arrangement of illumination at Construction Site. (If required). | Yes / No. | |
| 3 | Ensure life saver arrangements have been made during construction of Well foundation in River Bed. | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|----|--|-----------|---------|
| 4 | Check that the Concreting Mixer machine is placed at a safe place. (Not very near to pit.) | Yes / No. | |
| 5 | Check proper / adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection for De watering Pumps / Illumination / Electric compressors etc. if applicable). | Yes / No. | |
| 6 | Check that laying of temporary cables used during construction activities should not cause any danger for electrocution to workmen. | Yes / No. | |
| 7 | Inspection of excavations shall be made by a Competent Person every day. In case, possible cave in or slide is apparent, all working in the excavation shall be seized until the necessary precautions have been taken to safeguard the possible cave in or slide. | Yes / No. | |
| 8 | Jacks and vertical supports shall be positioned in such a manner that the vertical loads are distributed equally and do not exceed the capacity of the jacks and the jacks are placed away from pit edge etc. | Yes / No. | |
| 9 | Proper Jacking arrangement is made to take the entire load of template. | Yes / No. | |
| 10 | In case of long template in stub setting, more jacks have been provided and check that the Jacks are placed on levelled and hard surface to avoid the unbalancing and fallen. | Yes / No. | |
| 11 | Wire mesh rolls shall be secured in order to prevent dangerous recoiling action. | Yes / No. | |
| 12 | Lone worker should not be allowed to work in the excavated area. | Yes / No. | |
| 13 | Check that sufficient strong ladder of suitable length is available for ingress / outgress of persons in the pit | Yes / No. | |

II. TOWER ERECTION :

| SN | Description of Activity | Feed back | Remarks |
|----|---|-----------|---------|
| 1 | Check proper communication facility is available at site during Tower erection. (If required) | Yes / No. | |
| 2. | Check damages or uneven settlement of foundation. | Yes / No. | |
| 3. | Ensure the derrick used before tower erection has been checked for adequate strength/ size. Ensure for copy of test certificate for all the lifting machines and tackles. | Yes / No. | |
| 4. | Ensure that the pulleys used before tower erection has been checked for adequate strength / proper size (diameter). Also in case of open type pulleys proper locking arrangements like providing of Safety Pin is made. Ensure for copy of test certificate for all the lifting machines and tackles. | Yes / No. | |
| 5. | Ensure that the ropes used before tower erection has been checked for adequate strength / physical | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----------|--|------------------|----------------|
| | condition (Free from break of strands and knots etc. | | |
| 6. | Check that the lifting tools and tackles i.e. Winch Machine, Chain Pulley Block, Trifor, D - Shackle etc. are in healthy condition and has been tested periodically. (Attach copy of test certificate). | Yes / No. | |
| 7. | Ensure that permission has been obtained from Aviation Authority for erection of special towers. (Where necessary). | Yes / No. | |
| 8. | Ensure that permission has been obtained form Aviation Authority for erection of towers which comes in the vicinity of flying zone. (Where necessary) | Yes / No. | |
| 9. | Check that the safety measures has been taken before undertaking for the Road / Rail / River Xing jobs involving like wise stretches. | Yes / No. | |
| 10. | For rail or road crossing check whether written working plan is available at site with specific reference to safety e.g. local earthing, skilled & experience manpower, proper T&P, strength and height of scaffolding to maintain the required clearance etc. | Yes / No. | |
| 11. | Ensure that all the members and proper size of Nuts and Bolts of lower section are fitted properly before erection of the upper section of tower is taken up. | Yes / No. | |
| 12. | Check that the anti climbing devices are provided in the tower after erection job. | Yes / No. | |
| 13. | Check that the danger plates have been provided. | Yes / No. | |
| 14. | Check that only erection team members are allowed to stand near the tower while erection is in process and should wear the safety helmet / Safety Shoes. | Yes / No. | |
| 15. | Working area of the tower has been demarcated during erection. | Yes / No. | |
| 16 | Check that proper guying arrangement has been made. And also to see that proper size of the crow bars has been used which has been fixed at hard surface in case of sandy soil or loose soil. | Yes / No. | |
| 17 | Check that proper arrangement is made while lifting the tower members and fixing them at height i.e. Proper size and strength of the hook used for lifting the tower members. | Yes / No. | |
| 18 | Check sufficient numbers of guys are made while lifting the assembled cross arm and also avoiding use of single sheeve pulleys while lifting the assembled cross arm / heavy load. | Yes / No. | |

III. CONDUCTOR STRINGING:

| SN | Description of Activity | Feed back | Remarks |
|-----------|--|------------------|----------------|
| 1. | All drivers and plant operators are holding the valid driving license. | Yes / No. | |
| 2. | Check that the permit has been obtained from the | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----|---|-----------|---------|
| | Competent Authority for stringing of conductor while crossing through Road / Rail / River / Venerable areas etc. (Where necessary) | | |
| 3. | Check that required painting has been made on tower falling in the vicinity of aviation zones. (Where necessary.) | Yes / No. | |
| 4. | Check that all safety measures have been taken during stringing of conductor crossing the EHV / HV / LT lines (Earthing of existing lines etc.) | Yes / No. | |
| 5. | Ensure that proper size of Nuts and Bolts is rigidly tightened and punching / tacking / tack welding is done in towers before undertaking stringing job. | Yes / No. | |
| 6. | Ensure that proper scaffolding arrangements made during stringing of conductor (While Road Xing / Power Line Xing etc. | Yes / No. | |
| 7. | Ensure that all members are fitted in tower before undertaking conductor stringing work. | Yes / No. | |
| 8. | Check that the back filling of the foundation has been done as per specification. | Yes / No. | |
| 9. | Ensure that the discharge rod is electrically tested before use. | Yes / No. | |
| 10. | Stringing Machine / Tension pullor Machine are properly earthed. | Yes / No. | |
| 11. | Check the brake arrangement of the TSE Machines is working. | Yes / No. | |
| 12. | Ensure that the pulleys used before conductor stringing has been checked for adequate strength / proper size (diameter), also in case of open type pulleys proper locking arrangements like providing of Safety Pin is made Ensure for copy of test certificate for all the lifting machines and tackles. | Yes / No. | |
| 13. | Ensure the ropes used before conductor stringing has been checked for adequate strength / physical condition (Free from break of strands and knots etc. | Yes / No. | |
| 14. | Check that the lifting tools and tackles i.e. Winch Machine, Chain Pulley Block, Trifor, D - Shackle etc. are in healthy condition and has been tested periodically. (Attach copy of test certificate). | Yes / No. | |
| 15. | Check for the brake arrangement of the Drum reel of conductor during laying / paying out of conductor. | Yes / No. | |
| 16. | Check that proper communication facility is available at site during of stringing of conductor (If required) | Yes / No. | |
| 17. | Whether the tower has been permanently earthed. | Yes / No. | |
| 18. | Check that Sag Board is provided at two locations. | Yes / No. | |
| 19. | Check that the Sag Board arrangement is made by the experienced / trained persons. | Yes / No. | |
| 20. | Check approved Sag tension chart is available and followed at site. | Yes / No. | |
| 21. | While clamping of conductor / EW to be done, check for earthing. | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----------|---|------------------|----------------|
| 22. | Ensure sending signal to puller to stop when last layer of conductor / EW being pulled. | Yes / No. | |
| 23. | Check tension applied on the dynamo meter dial and check values with approved data. | Yes / No. | |
| 24. | Before stringing starts check that the villagers do not come underneath the job of the concerned section. | Yes / No. | |
| 25. | Only nylon or polypropylene ropes should be used during conductor stringing in vicinity of live overhead lines. | Yes / No. | |
| 26. | Ensure that PTW has been taken from the concerned authority. | Yes / No. | |
| 27. | Ensure that Winch, Pulleys etc. are properly earthed. | Yes / No. | |
| 28. | For LT lines, whether special persons are posted at each point of isolation till return of permit (PTW). | Yes / No. | |
| 29. | Whether the network of LT lines has been thoroughly checked and precautions taken Against inadvertent charging. | Yes / No. | |
| 30. | Check that proper arrangement is made / available for development and use of a Portable Earthing and Short – Circuiting Devices which can be engaged and disengaged to and from the LT lines, keeping away from the LT lines, until all operations on the same are completed and all men and materials are removed from LT lines. | Yes / No. | |
| 31. | Check the provision and proper positioning for the guying and back staying (Where necessary). | Yes / No. | |
| 32. | Check demarcation of feeder is done for D/c Line. | Yes / No. | |
| 33. | Ensure that all the insulator strings are thoroughly checked for availability and proper fixing of cotter / split pins before hoisting the same. | Yes / No. | |

General Points common for all activities during Excavation, Casting of Foundation

I. ERECTION OF TOWER AND STRINGING OF CONDUCTOR :

| SN | Description of Activity | Feed back | Remarks |
|-----------|---|------------------|----------------|
| 1. | Check whether the contractor had procured required quantity of PPEs considering maximum numbers of erection gangs deployed at one time. | Yes / No. | |
| 2. | Supervisors/ Workmen have been provided with required healthy PPEs, like Safety helmet / Safety Belts / Safety Shoes / Gum Boot etc. as applicable. | Yes / No. | |
| 3. | Availability of First Aid Box with required medicines at site. | Yes / No. | |
| 4. | Instruction register is available at site. | Yes / No. | |

| | | | |
|-----|--|-----------|--|
| 5. | Ensure that Supervisor / Gang Leader always issues instruction to the Workmen before start of work. | Yes / No. | |
| 6. | Ensure that supervisory staff from Power Grid is available at site during construction. | Yes / No. | |
| 7. | All driver and plant operators are holding valid driving license. | Yes / No. | |
| 8. | Check the vehicle for rescue is available at site. | Yes / No. | |
| 9. | Ensure engaged labour are aware of the job. | Yes / No. | |
| 10. | Check that the unskilled labourers are not engaged in skilled job. | Yes / No. | |
| 11. | Ensure that supervisor / workmen engaged in the field are aware of First Aid Techniques (Such as in case of Electric Shock, Fall from the height, Snake bite and the person rescued from buried under the debris etc. | Yes / No. | |
| 12. | Check for nearby Hospital / Doctor in case of emergencies arises. | Yes / No. | |
| 13. | While transporting heavy consignment of conductor / EW drums from central store to site by the use of Cranes, Truck, and Tractor. The safety aspect for construction and failure of brake system of moving machinery is to be checked. | Yes / No. | |
| 14. | At least one dry powder type of portable fire extinguisher shall be provided especially where explosive or blasting agents are used for excavation. | Yes / No. | |
| 15. | Check the competence (Qualification / Experience) of supervisor / gang leader of contractor. | Yes / No. | |

ARKS IF ANY:

| | | |
|--|--|---|
| Signature | Signature | Signature |
| Name : Designation : Representative of Contractor | Name : Designation: TSECL Rep. from Site. | Name : Designation: TSECL Rep. from Circle Office. |

Safety Related Check List during Construction of Sub - Station

Region: Date of Safety Audit:.....

Name of Sub Stn. / Switching Stn.:
.....

Name of Contractor:

Contractor License / Registration No.:.....Validity.....

Name of Sub Contractor :
.....

Sub-Contractor License / Registration
No.:.....Validity.....

I. SUB STATION CIVIL WORKS :

| SN | Description of Activity | Feed back | Remarks |
|---------------------------------------|--|-----------|---------|
| i): Safety during Excavation : | | | |
| 1. | Check Sub station area has been protected by constructing boundary wall all around the sub station to avoid entry of passerby / unauthorized person or animal in the sub station. | Yes / No. | |
| 2. | De watering arrangement is available (If necessary) | Yes / No. | |
| 3. | Check proper / adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection and no naked wire connection to Pumps / Illumination / Electric compressors etc. if applicable). | Yes / No. | |
| 4. | Check arrangement of illumination at construction site is available. | Yes / No. | |
| 5. | Check dumping of Excavated soil (Minimum 1.5 Mts. Or half the depth of the pit which ever is more from the edge of the pit.) | Yes / No. | |
| 6. | Check Shoring & Shuttering to protect the loose rock / soil against fall. (if required). | Yes / No. | |
| 7. | Check lone worker is not be allowed to work in the excavated area. | Yes / No. | |
| 8. | Ensure Laying of temporary cables used for operation of Machines used during construction should not cause any danger for electrocution of persons / animals. | Yes / No. | |
| 9. | Ensure that before undertaking excavation, the soil has been tested and in case of availability of any explosive / dangerous gas, necessary arrangement must be made to remove / dilute such gases. | Yes / No. | |
| 10. | The positions of underground installations such as sewers, water pipes and electrical cables has been verified and in case of their existence, they must be isolated before further excavation works to ensure | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|--|---|-----------|---------|
| | Human Safety. | | |
| 11. | Check that the scaffolds are not overloaded in any case. Scaffolds are to be erected and supported properly. | Yes / No. | |
| 12. | Stability of the soil of the excavated pit for safe working is to be checked and certified by a competent person daily before start of work. A register at site is maintained where competent person can certify accordingly. No manhole should remain uncovered during night & off days. | Yes / No. | |
| 13. | Check the provision of sufficient strong ladder of suitable length is available near the working place during excavation. | Yes / No. | |
| 14. | Check if any permission is required from local statutory body before excavation. | Yes / No. | |
| 15. | Check for No undercutting / toe cutting in soil. | Yes / No. | |
| 16. | Check after excavation the work should be speedily completed without delay and back filling done at the earliest. | Yes / No. | |
| 17. | Check for any possibility of seepage of water from nearby pond / river has been estimated and taken care of. | Yes / No | |
| 18. | Check to avoid slide / collaps of side walls of excavated pit, the excavation is to be done in trapezoidal cross – section. | Yes / No. | |
| ii): Safety precaution during Storage, Handling and Use of Blasting Material: | | | |
| 1 | Check that the adequate arrangement is made for the storage of blasting material at safe place. (Temporary Magazine is to be installed observing all norms) as per Indian Explosive Act. | Yes / No. | |
| 2. | Check that the blasting materials is handled by licensed blaster with due care at site. (If applicable) | Yes / No. | |
| 3. | Check smoking is prohibited in the vehicle carrying explosives. | Yes / No. | |
| 4. | Check that the Blaster is holding proper license issued by the appropriate authority. As per Indian Explosive Act. | Yes / No. | |
| 5. | Check that the length of the fuse wire used during blasting operation is adequate. | Yes / No. | |
| 6. | Check while transportation, no unauthorized person is allowed in vehicle carrying explosives. | Yes / No. | |
| 7. | Check that the loading and unloading of explosives is being done carefully. | Yes / No. | |
| 8. | Check explosives and detonators or blasting caps is not being transported in the same vehicle. | Yes / No. | |
| 9. | Check while transportation the detonators and explosives are not carried loose or mixed with other materials. | Yes / No. | |
| 10 | Check surplus explosives shall not be stacked near working area during loading / unloading. | Yes / No. | |
| 11. | Check explosives shall not be held in hands when lightening the fuse. | Yes / No. | |
| 12. | Check that blasting in the open has been carried out | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|---|--|-----------|---------|
| | during the fixed hours every day or on fixed days in the week so that the public at large should know about this. | | |
| 13. | Check that arrangement has been made to display sufficient warnings / sign board to enable the people to get out of the blasting area to get off the danger zone | Yes / No. | |
| 14. | Check that the danger zone has been suitably cordoned off. | Yes / No. | |
| 15. | Check during blasting operations begin / after the firing of explosives shall follow the loud siren. | Yes / No. | |
| 16. | Check that during blasting operation, Labour / Workmen / Passerby are at safe places and arrangement is made to inform public by caution markings (Red Flag) / Public Notices etc. | Yes / No. | |
| 17. | Check that PPEs i.e. Safety helmets, Safety Shoes, is used by blaster and their gang members during blasting and also the persons supervising the blasting operations. | Yes / No. | |
| 18. | For covered blasting ensure placement of cover plates of proper thickness and sufficient numbers of sand filled bags. | Yes / No. | |
| 19. | Ensure that permission for blasting has been obtained from the appropriate authority. | Yes / No. | |
| iii) Safety during casting of Foundation / Concreting : | | | |
| 1. | Check construction materials are stacked at safe place and also does not cause any danger. (Away from pit) i.e. 1.5 Mtrs. or half the depth of the pit which ever is more.) | Yes / No. | |
| 2. | Check proper arrangement of illumination at Construction Site of Sub station is available. | Yes / No. | |
| 3. | Check that the Concreting Mixer/ Vibrator machines etc are placed at a safe place (Not very near to any pit at least 1.5 Mtr. from the edge of the pit) to avoid transfer of vibrations and should be operated by skilled persons. | Yes / No. | |
| 4. | Check proper / adequate arrangement is made for extension of electric supply. (Proper size of cable, Use of fuse, No loose connection for De watering Pumps / Illumination / Electric compressors etc. if applicable). | Yes / No. | |
| 5. | Check for laying of temporary cables used during construction activities should not cause any danger for electrocution to persons / animals. | Yes / No. | |
| 6. | All bracing, struts and shuttering in excavations shall be adequately secured so as to prevent their accidental displacement. | Yes / No. | |
| 7. | Ensure Shuttering and timbering has been made as detailed in I:S: 3764 for protecting the loose rock / soil against fall. | Yes / No. | |
| 8. | Check for proper placing of Hydraulic jacks with stability and constant watch of these instruments (which are continuously loaded) to avoid any danger of displacement causing sever accident. | Yes / No. | |

II. SAFETY DURING STRUCTURE, EQUIPMENT ERECTION & CABLE LAYING ETC. :

| SN | Description of Activity | Feedback | Remarks |
|-----|---|-----------|--|
| 1. | Check Back filling done prior to erection activity. | Yes / No. | |
| 2. | Check the derrick used before structure erection has been checked for adequate strength / size and no joints are permitted. | Yes / No. | Test certificate is required apart from visual inspection. |
| 3. | Check that the pulleys used before structure erection / Equipment Erection has been checked for adequate strength / proper size (diameter), also in case of open type pulleys proper locking arrangements like providing of Safety Pin is made Safe working load should be punched. | Yes / No. | Test certificate is required apart from visual inspection. |
| 4. | Check the ropes used before structure erection / Equipment Erection has been checked for adequate strength / physical condition (free from break of strands and knots etc. | Yes / No. | Test certificate is required apart from visual inspection. |
| 5. | Check that the lifting tools and tackles are in healthy condition and has been tested periodically. | Yes / No. | Test certificate is required apart from visual inspection. |
| 6. | Check permission has been obtained from Aviation Authority for erection of Lightning Mast which comes in the vicinity of flying zone. (Where necessary) | Yes / No. | |
| 7. | Check that all Nuts and Bolts are fitted in the structure before undertaking the job of other section of the structure and are tightened. | Yes / No. | |
| 8. | Check area has been cordoned off to prevent injuries to unauthorized persons from hitting against structural component or falling in the excavated pits. | Yes / No. | |
| 9. | Check that danger plates are available on all the equipment & structures in the switchyard. | Yes / No. | |
| 10. | Check demarcation of feeder is done for Double Circuit Line. | Yes / No. | |
| 11. | Check only erection team members are allowed to stand near the structure / Equipment while erection is in process and should wear the safety helmet / Safety Shoes. | Yes / No. | |
| 12. | Check proper guying arrangement has been made while lifting structure / Equipment, if necessary. | Yes / No. | |
| 13. | Check that proper arrangement is made while lifting the structure members and fixing them at height i.e. Proper size and strength of the hook used for lifting the structure members. | Yes / No. | |
| 14. | Check sufficient numbers of guys are made while lifting the assembled structure / heavy loads and also avoiding use of single sheeve pulleys while lifting the assembled structure / heavy load. | Yes / No. | |
| 15. | Check arrangement has been made for equipment identification. | Yes / No. | |
| 16. | Check that required painting made on tower falling in the vicinity of aviation zones. (Where necessary.) | Yes / No. | |
| 17. | Check no live wires nearby. Take shut down if necessary. | Yes / No. | |

| SN | Description of Activity | Feedback | Remarks |
|-----------|--|-----------------|----------------|
| 18. | Check the structure has been permanently earthed. | Yes / No. | |
| 19. | Check crane are preferably be used for erection of pipe structure in the sub station building works (if required.) | Yes / No. | |
| 20. | Check all safety procedures for erection work like use of safety helmets, Safety belts, use of guy wires, lowering / lifting of tools by rope etc. are strictly adhered to during structure erection works is in progress in the switchyard. | Yes / No. | |
| 21. | Check that correct size of spanner (Box or ring type) as well as DE spanners is being used. | Yes / No. | |
| 22. | Check working area of the structure has been demarcated during erection. | Yes / No. | |
| 23. | Check heavy structures are lifted with crane with proper safety. | Yes / No. | |
| 24. | Only polypropylene ropes are to be used to tie the aluminium tube / Bus bar since this is soft material and will not damage aluminium tube / Bus bar during erection. | Yes / No. | |
| 25. | Ensure that R clips in insulator caps are fixed properly to avoid disconnection of insulator discs. | Yes / No. | |
| 26. | Ensure that all the necessary security pins (split pins) are fixed. | Yes / No. | |
| 27. | Check all nuts of jumper fittings are properly tightened and live metal clearance have been maintained as per POWERGRID specification. | Yes / No. | |
| 28. | In case of tension fitting dead end joint dimensions before & after the compression are checked and recorded. | Yes / No. | |
| 29. | No damaged component of any hardware fitting should be used on works. | Yes / No. | |
| 30. | Length of jumpers has been measured properly to give it a parabolic shape. No sharp bend should exist. | Yes / No. | |
| 31. | Check surge counter erection facilitates proper reading and that earthing is done with minimum bends. | Yes / No. | |
| 32. | Check Surge monitor has been earthed by connecting it to main earth mat with (G I Flat 75 x 12 mm) and earth pit separately as per drawing. | Yes / No. | |
| 33. | Check the alignment of earth switch with isolator, earth switch of isolator is put into operation and the contacts are cleaned. After completion of pre commissioning checks and formats are dully filled and signed. | Yes / No. | |
| 34. | Ensure that the rubber beedings are kept in good condition. | Yes / No. | |
| 35. | Check CT has been placed on the support structure very carefully and all nuts have been tightened. Earthing is done as per drawing. | Yes / No. | |
| 36. | Ensure the lattice structure of CT has been earthed at two points. | Yes / No. | |
| 37. | Check the marshalling box in the switchyard has proper illumination arrangement. | Yes / No. | |
| 38. | Check the capacitor unit is short circuited & earthed, until erection and commissioning works are being done on CVT. (The capacitor get charged by the electrical fields in the vicinity and they keep these charges for a long time, | Yes / No. | |

| SN | Description of Activity | Feedback | Remarks |
|-----|---|-----------|---------|
| | which can be dangerous to human life. Hence the shorting of capacitor unit is necessary). It should be removed before tests / use. | | |
| 39. | Check Fuses in the marshaling box are OK. | Yes / No. | |
| 40. | Check proper earthing of CVT tank has been done. | Yes / No. | |
| 41. | Check all housing accessories, mounting stools including bolts / Nuts for fixing Line Trap and insulators are of non magnetic material. | Yes / No. | |
| 42. | Check H.F. point of CVTs on which the coupling device is not mounted has been earthed. | Yes / No. | |
| 43. | Check the remaining CVTs have been earthed thro' coupling device. | Yes / No. | |
| 44. | Cable drums after visual inspection should be stored preferably in the covered area. Cable ends should be clamped. | Yes / No. | |
| 45. | Ensure each cable and conduit run should be tagged with cable identity numbering as per the approved that appear in the cable and conduit schedule. | Yes / No. | |
| 46. | The tag should be of aluminium plate with ID number punched on it and securely attached to the cable conduit by not less than two turns. Cable tags should of rectangular shape for power cables and of circular shape for control cables. | Yes / No. | |
| 47. | Check underground cable markers should project 150 mm above ground and spaced at an interval of 30 Mts. They shall be located on both sides of road and drain crossing and also at every change in direction. | Yes / No. | |
| 48. | Check cable tags should be provided inside the switchgear, motor control centres, control and relay panels etc. wherever required for cable identification, where a number of cables enter together through a gland plate. | Yes / No. | |
| 49. | The cable (power and control) between LT stations, Control room, DG set building and fire fighting pump house should be laid in the buried cable trenches. In addition to the above, for lighting purpose also, buried cable trench can be used in outdoor area. (as per Technical specification of specific contract) | Yes / No. | |
| 50. | Cable route and joint markers and RCC warning covers should be provided wherever required. The voltage grade of cables should be engraved on the marker. | Yes / No. | |
| 51. | Tray Identification Number on each run of trays at an interval of 10 Mtrs should be painted. | Yes / No. | |
| 52. | In case the outer sheath of a cable is damaged during handling / installation, the same should be repaired to the satisfaction of the site. In case any other part of a cable is damaged, the same should be replaced by a healthy cable. Power cables should be at the top most layers. The armor of control cable is to be earthed. | Yes / No. | |
| 53. | All cable termination should be appropriately tightened to ensure secure and reliable connections. All the exposed | Yes / No. | |

| SN | Description of Activity | Feedback | Remarks |
|-----|--|-----------|---------|
| | parts of cable lugs should be covered with tape, sleeve or paint. | | |
| 54. | Power and control cables are laid on separate cable trays | Yes / No. | |
| 55. | Co-axial cable is laid separately from power cable. | Yes / No. | |
| 56. | All cable trays, racks and metallic ducts have been grounded by connecting each to earth / mat. (As per Scheme) | Yes / No. | |
| 57. | Check sections of cable trays have been bridged by copper jumpers/ G I to retain continuity of earthing. (As per Scheme) | Yes / No. | |
| 58. | Check earthing of panel is done by the erection contractor for connecting it with switchyard earth mat. (As per Scheme) | Yes / No. | |
| 59. | Auxiliary bus wiring for AC and DC supplies, Voltage Transformer circuits, annunciation circuits and other common services is provided near the top of the panels running through out the entire length of the panels. | Yes / No. | |
| 60. | All internal wiring to be connected to external equipment is terminated on terminal blocks, preferably vertically mounted on the side of each panel. | Yes / No. | |
| 61. | Check whether Mimic Diagram is available preferably made of anodized aluminium or plastic of approved fast colour material and screwed on to the panel that can be easily cleaned. | Yes / No. | |
| 62. | Check the panels all equipment mounted on front and rear side as well as equipment mounted inside are provided with individual name plates with equipment designated engraved. | Yes / No. | |
| 63. | Check on top of each panel on front as well as rear side, large and bold name plates are provided for circuit / feeder designation. | Yes / No. | |
| 64. | Check all front mounted equipments are provided at the rear with individual name plates engraved with tag numbers corresponding to panel internal wiring to facilitate easy tracing of the wiring. | Yes / No. | |
| 65. | Check the name plates mounted directly by the side of the respective equipments should not be hidden by equipment wiring. | Yes / No. | |
| 66. | Check availability of 240V single phase 50 HZ, AC socket with switch suitable to accept 5 Amps and !5 Amps pin round standard plug, is provided in the interior of each cubicle with ON-OFF switch for connection of hand lamps. | Yes / No. | |
| 67. | Check that panels are provided with a fluorescent lighting fixture rated with 240 Volts single phase, 50 Hz supply for the interior illumination of the panel during maintenance. The fittings are complete with switch fuse unit and switching of the lighting is controlled by the respective panel door switch. Adequate lighting with fuse unit is also provided for the corridor in control panels. | Yes / No. | |
| 68. | Check control panels are provided with necessary arrangements for receiving, distributing, isolating and | Yes / No. | |

| SN | Description of Activity | Feedback | Remarks |
|-----|--|-----------|---------|
| | fusing of DC and AC supplies for various control, signalling, lighting and space heater circuits. The incoming and sub circuits are separately with switch fuse units. | | |
| 69. | Check panels are provided with a space heater rated for 240 V, single phase, 50 Hz, AC supply for the internal heating of the panel to prevent condensation of moisture. | Yes / No. | |
| 70. | Check all panels are equipped with an earth bus securely fixed | Yes / No. | |
| 71. | Check when several panels are mounted adjoining each other, the earth bus is made continuous with necessary connectors and clamps for this purpose. | Yes / No. | |
| 72. | Check provision is made for extending the earth bus bars to adjoining panels on either side. | Yes / No. | |
| 73. | Check provision is made on each bus bar of the end panels for connecting earthing grid. | Yes / No. | |
| 74. | Check all metallic cases of relays, instruments and panel mounted equipment including gland plates are connected to the earth bus by copper wires of specified size. | Yes / No. | |
| 75. | Check the colour code of the earthing wire is green. | Yes / No. | |
| 76. | Check that earthing made with equipment is with Nuts and Bolts i.e. For such connection lugs should be pressed and tightened to the terminals through Nuts and Bolts. | Yes / No. | |
| 77. | Check that no equipment is mounted on the panel doors. | Yes / No. | |
| 78. | Check each switch should bear clear inscription identifying its function. | Yes / No. | |
| 79. | Check those who have sufficient knowledge of steel structural job have been employed in steel structural works only. | Yes / No. | |
| 80. | Check necessary instruction has been communicated by supervisor before start of the day's works to workmen under his control. | Yes / No. | |
| 81. | Storing of equipments is to be made properly to avoid any accident during handling. | Yes / No. | |
| 82. | Check all Nuts and bolts are properly raised or lowered preferably using closed loop pulleys and gully bags / hand bags tied at the end for carrying nuts and bolts. | Yes / No. | |
| 83. | Check that Fire resistant sheets are used before entrance of control cable in control room. | Yes / No. | |
| 84. | Check air compressor tubing properly tightened. | Yes / No. | |
| 85. | Check all carrying connectors / clamps properly tightened. | Yes / No. | |

III. CONDUCTOR LAYOUT DURING CONSTRUCTION STAGE :

| SN | Description of Activity | Feed back | Remarks |
|----|---|-----------|---------|
| 1. | Check all members are fixed in structure and ensure proper size of Nuts and Bolts are rigidly tightened and | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----------|--|------------------|----------------|
| | punching / tacking / tack welding is done in towers / structures before undertaking conductor laying job. | | |
| 2. | Ensure proper scaffolding arrangements made during laying of conductor (While Power Line crossing etc). | Yes / No. | |
| 3. | Ensure that all members are fitted in structure before undertaking conductor laying work. | Yes / No. | |
| 4. | Ensure that the discharge rod is electrically tested before use. | Yes / No. | |
| 5. | Ensure whether the structure is properly earthed. | Yes / No. | |
| 6. | Only nylon or polypropylene ropes should be used during conductor laying in vicinity of live overhead lines. | Yes / No. | |
| 7. | Ensure that PTW has been taken from the concerned authority when extension of existing substation is under execution. | Yes / No. | |
| 8. | Ensure that Winch, Pulleys etc. are properly earthed. | Yes / No. | |
| 9. | For LT lines, check whether special persons are posted at each point of isolation till return of permit (PTW) if positioning of person is not possible then it is to be seen that all the point of isolation has been kept in the locked position till the work is in progress. | Yes / No. | |
| 10. | Whether the network of LT lines has been thoroughly checked and precautions taken against inadvertent charging. | Yes / No. | |
| 11. | Check that proper arrangement is made / available for grounding LT lines coming across during conductor laying. (This can be done by way of portable earthing and short circuiting devices which cab be engaged to and disengaged from LT lines, keeping away from the LT lines until all operations on the same are completed and all man and materials are removed from the LT lines). | Yes / No. | |
| 12. | Check the provision and proper positioning for the guying and back staying (Where necessary). | Yes / No. | |
| 13. | Check working of hydraulic crimping machine. | Yes / No. | |
| 14. | Check before and after crimping, dimensional changes in clamps and are in accordance with the drawings and specifications. | Yes / No. | |

IV. SWITCHYARD EARTHING DURING CONSTRUCTION STAGE:

| SN | Description of Activity | Feed back | Remarks |
|-----------|---|------------------|----------------|
| 1. | Check that while earthing conductor crossing the road is laid 300 mm below the road or at greater depth depending upon the site conditions. | Yes / No. | |
| 2. | Check that while laying the Earthing conductor in | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----|--|-----------|---------|
| | outside area is buried at least 600 mm below the furnished ground level. | | |
| 3. | Check that the earthing pads have been provided for the apparatus / equipments at accessible position. | Yes / No. | |
| 4. | Check all steel columns, metallic stairs are connected to nearby earthing grid conductor by two earthing leads. | Yes / No. | |
| 5. | Check of earthing of lightening fixtures, receptacles switches, junction boxes lighting conduits has been done by a separate earthing conductor. | Yes / No. | |
| 6. | Check that the railway tracks within switchyard area has been earthed at a spacing of 30 Mts. / specified distance and also at both ends. | Yes / No. | |
| 7. | Check cable trays has been connected to earthing flat of 50X6 mm / specified sized earthing flat at intervals specified in approved drawing. | Yes / No. | |
| 8. | Check that this earthed flat is earthed at about 30 Mts. distance. | Yes / No. | |
| 9. | All accessories in transformer and reactor like radiators tank, cooling banks etc are connected to the earthing grid at minimum two points. | Yes / No. | |
| 10. | Check metallic conduits are not used as earth continuity conductor. | Yes / No. | |
| 11. | Check flexible earthing connectors should be provided for the moving parts. | Yes / No. | |
| 12. | Check sheath and armor of single core power cable is earthed at switchgear end and equipment side. | Yes / No. | |
| 13. | Check contact surface of earthing pads for jointing free from scale, paint, enamel, grease, rust or dust. | Yes / No. | |
| 14. | Check that light poles, junction boxes on the poles, cable and cable boxes / glands, lockout switches etc. are connected to the earthing conductor running along with the supply cable which intern is connected to the earthing grid conductor at a minimum two points. | Yes / No. | |
| 15. | Check earthing conductor which is generally buried 2000 mm outside the switchyard fence. All the gates and every alternate post of the fence are to be connected to earthing grid. | Yes / No. | |
| 16. | Check megger used for measuring soil resistivity is calibrated with desired accuracy. | Yes / No. | |
| 17. | The earth resistivity has been measured in dry weather condition. | Yes / No. | |
| 18. | Check the earthing of Transformers and Shunt reactor, earth pits are constructed as per relevant standard / approved drawing. | Yes / No. | |
| 19. | Check that the measured value of combined earth resistance should be less than 1 Ohm. | Yes / No. | |
| 20. | Check that for earth electrode and individual earth pits, this value should not be more than one Ohm. | Yes / No. | |
| 21. | Check all non current carrying metal parts shall be effectively earthed by two separate and distinct earth connections (Indian Electricity Rule 61,67) | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----|--|-----------|---------|
| 22. | Check that all pylon supports in the Fire Fighting HVSW system has been earthed to the earthmat. | Yes / No. | |

V. GENERAL POINTS COMMON FOR ALL ACTIVITIES DURING EXCAVATION, CASTING OF FOUNDATION

Erection of structures, laying of Conductor, storage and transportation of material:

| SN | Description of Activity | Feed back | Remarks |
|-----|---|-----------|---------|
| 1. | Check Supervisors / Workmen have been provided with required healthy PPEs. Like (Safety helmet / Safety Belts / Safety Shoes / Gum Boot etc. as applicable) | Yes / No. | |
| 2. | Check availability of First Aid Box with required medicines at site. | Yes / No. | |
| 3. | Check Site Instruction register is available at site. | Yes / No. | |
| 4. | Ensure Supervisor / Gang Leader always issues instruction to the Workmen including contractor labour before start of work. | Yes / No. | |
| 5. | Ensure supervisory staff from Power Grid is available at site during construction. | Yes / No. | |
| 6. | Check all driver and plant operators are holding valid driving license. | Yes / No. | |
| 7. | Check the vehicle for rescue is available at site. | Yes / No. | |
| 8. | Ensure engaged labour are aware of the job. | Yes / No. | |
| 9. | Ensure supervisor / workmen engaged in the field are aware of First Aid Techniques (Such as in case of Electric Shock, Fall from the height, Snake bite and the person rescued from buried under the debris, rescue of person from drowning etc. | Yes / No. | |
| 10. | Check for availability and to keep a record of nearby Hospital / Doctor in case of emergencies arises. | Yes / No. | |
| 11. | While transporting heavy consignment of conductor / EW drums from central store to site by the use of Cranes, Truck, Tractor. The safety aspect for construction and failure of brake system of moving machinery is to be checked. | Yes / No. | |
| 12. | At least one dry powder type of portable fire extinguisher shall be provided especially where explosive or blasting agents are used for excavation. (If applicable) | Yes / No. | |
| 13. | Check the competence (Qualification / experience) of supervisor / gang leader of contractor. | Yes / No. | |
| 14. | Wire mesh rolls shall be secured in order to prevent dangerous recoiling action. | Yes / No. | |
| 15. | Proper unloading arrangement has been made at site (Preferably with crane) to unload the material. | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----|---|-----------|---------|
| 16. | After unloading the material visual inspection of the materials has been carried out along with the erection contractor to check that the material has not been damaged or not (Galvanizing is proper or not) As per approved Field Quality Plan etc. | Yes / No. | |
| 17. | While transporting the heavy laden equipment like transformer / Reactor by road from Rly Stn to Sub station check whether for all safety precaution taken. Like safe lifting capacity of crane, safe load on culvert / Bridge / Nala / Drain etc.and working plan is available at site with specific reference to safety e.g. local earthing, skilled & experience manpower, proper T&P, strength and LT wires / HT wires interrupting the height of equipment and the required clearance maintained etc. Permission to be obtained from concerned authority if required. "Impact recorder on the equipment like Reactor / Transformer must be installed during transportation" | Yes / No. | |
| 18. | Check that the adequate and safe means of access and egress has been provided for all work places as far as reasonably practicable and is being used by the workers. | Yes / No. | |
| 19. | Check proper illumination is provided at the work places and their approaches including passage ways. | Yes / No. | |
| 20. | Check that the lamps have been protected by suitable guards where necessary to prevent danger, in case the lamp breaks. | Yes / No. | |
| 21. | Check loose materials which are not required for use shall not be placed or left so as dangerously to obstruct work places or passage ways. | Yes / No. | |
| 22. | Check all projected nails has been removed or bent over to prevent injury. | Yes / No. | |
| 23. | Check scrap, waste and rubbish has not been allowed to accumulate on the site or the scrap materials has been stored at the isolated place. | Yes / No. | |
| 24. | Check that the worker while working at height scaffold materials, waste materials and tools are not being thrown by them to cause injury to any person. | Yes / No. | |
| 25. | Check whether contractor has procured required quantity of PPE considering maximum number of erection gangs deployed at one time. Check the quantity of PPEs. | Yes / No. | |
| 26. | Check that the PPEs required by the workmen are being utilized by them always. | Yes / No. | |
| 27. | Check the worker is under constant surveillance by the other person while working at height. | Yes / No. | |
| 28. | Check construction site has been barricaded for unauthorized persons / animals. | Yes / No. | |

| SN | Description of Activity | Feed back | Remarks |
|-----------|--|------------------|----------------|
| 29. | Check that lifting appliances and machines and vehicles used on the construction site is of sound material and good quality and is free from patent defects and is strong enough to with safely the load and stresses to which they will be subjected. | Yes / No. | |
| 30. | Check structures and equipment is being used only for the purpose for which they were intended. | Yes / No. | |
| 31. | Check equipment has been operated by the competent person. | Yes / No. | |
| 32. | Check portable ladders shall not exceed 9 Mts. in length, other wise may cause danger while climbing of person and back legs shall be equally braced. | Yes / No. | |
| 33. | Check unskilled labour are not utilized for skilled jobs and only experience persons are deployed for erection. | Yes / No. | |
| 34. | Check a well planed and documented procedure for the entire Construction works of Sub station shall be prepared by contractor and get approved from Power Grid for distribution to Contractors' field staff and Power Grid for follow up. | Yes / No. | |
| 35. | Check no metallic measuring tapes are being used during expansion of charged bays. | Yes / No. | |
| 36. | Check metal ladders are not being used in the vicinity of exposed live electrical equipment. | Yes / No. | |
| 37. | Check one bore well is available for water supply in case Municipal Construction supply is not available | Yes / No. | |
| 38. | Check charged area of a yard should be properly fenced off. | Yes / No. | |
| 39. | Check ladders / lengthy articles / lengthy equipments etc. should always be carried in horizontal position. | Yes / No. | |
| 40. | Check insurance by contractor for the labour to provide adequate coverage for any accident etc. | Yes / No. | |

Remarks if any:

Signature

Signature

Signature

Name :

Designation:

TSECL Site Representative

Name :

Designation:

Rep. from Contractor

Name :

Designation :

**Rep. from TSECL
Circle office**

ANNEXURE – 8
PUBLIC CONSULATATION BROCHURE



অকশ্বের সংখ্যা

ত্রিপুরা রাজ্য বিদ্যুৎ নিগম লিমিটেড
(ত্রিপুরা সরকারের অধীনস্থ প্রতিষ্ঠান)

ত্রিপুরা সহ উত্তর-পূর্ব রাজ্যগুলির বিদ্যুৎ ব্যাবস্থার উন্নতির জন্য ভারত সরকার-বিশ্বব্যাংকের আর্থিক সহায়তায় উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থার উন্নতিকরণ অকশ্ব (NERPSIP) গঠন করেছেন, যার অংশ হিসেবে উন্নয়ন প্রকল্প তৈরি করা হবে। পাশ্চাত্য বর্তমান সার্বস্বত্বের ক্ষমতা বৃদ্ধি ও সম্প্রসারণ তৈরি করা হবে।

উদ্দেশ্য হলঃ

- বিদ্যুৎ পরিবাহী ও বন্টন লাইনের ক্ষমতা বৃদ্ধি করা তথা পরিবাহী ও বন্টন বাদ অপচয় কমানো।
- প্রতিদায় উন্নয়ন প্রকল্পে যোগান দেওয়া।

উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থার উন্নতিকরণ অকশ্বের (NERPSIP) অধীনে ত্রিপুরা রাজ্যের উন্নয়ন প্রকল্পে বিদ্যুৎ নিগম লিমিটেড কর্তৃক উন্নয়ন প্রকল্পের অধীনে পরিচালিত হবে।

আমরা আশা করি ত্রিপুরার সামাজিক ও অর্থনৈতিক উন্নয়নে উত্তর-পূর্ব ক্ষেত্র বিদ্যুৎ ব্যাবস্থার উন্নতিকরণ অকশ্ব (NERPSIP) অন্য অবদান রাখবে।



PROJECT SUMMARY

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

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 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.

ANNEXURE – 9
DETAILS OF PUBLIC CONSULTATION

DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তব্য সভার বিবরণ

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

Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:

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

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

Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া

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

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

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

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

Conclusion/ উপসংহার

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

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

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

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

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

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

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

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|--------------------|
| ১) | Soma Das | Lowgang | House wife | Soma Das |
| ২) | Jiban Kishor Patra | Lowgang | -do- | J Patra |
| ৩) | সমিতি (২২) | Lowgang | " | সমিতি (২২) |
| ৪) | শ্রী চন্দ্রকান্ত | Lowgang | " | শ্রী চন্দ্রকান্ত |
| ৫) | মঞ্জু কান্তি শীল | Lowgang | " | মঞ্জু কান্তি শীল |
| ৬) | স্বপ্না সত্য মোহ | Subash colony | " | Swarna sou |
| ৭) | (সমিতি) লুগাং | -২ | " | সমিতি লুগাং |
| ৮) | মাসুম মল্লিক | লুগাং ৩ | " | Masumod |
| ৯) | সমিতি লুগাং | ৩ | Business | Somhar Das |
| ১০) | দিলীপ মল্লিক | ৩ | " | Dilip molla |
| ১১) | সমিতি লুগাং (১৫) | Lowgang | " | Jiban kishor patra |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------------|--------------------|
| 12 | Rasmohan Chowdhury | Garechhang | Farmer | Rasmohan Chowdhury |
| 13 | Anjali Bhowmik | Garechhang | HPW | Anjali Bhowmik |
| 14 | Nirmal Tripathi | Garechhang | Farmer | Nirmal Tripathi |
| 15 | সঞ্জয় বসু | সমস্রা | HPW | সঞ্জয় বসু |
| 16 | সুজান দেবনাথ | Rak. Gang | Farmer | Sujan Deb Nath |
| 17 | অলোক দেবনাথ | DO - | Aloruni d/nath HPW | Aloruni d/nath |
| 18 | অঞ্জলি দাস | DO | HPW | Anjali Das |
| 19 | রজন দাস | DO | HPW | Rajan Das |
| 20 | তপসী মজুমদার | Betageh | HPW | Tapasi Majumdar |
| 21 | সঞ্জয় মজুমদার | Betageh | HPW | সঞ্জয় মজুমদার |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|------------------|
| 21 | MILAN DAS | LONGAAS | H/W | Milan Das |
| 23 | নওদীন মন্ডল | Betaga | Business | Sohrabul Islam |
| 24 | তরুণ মন্ডল | Betaga | " | Nikhil Mondal |
| 25 | সীমান হায়া | Betaga | " | Rinal Das |
| 26 | সীমান হায়া | Betaga | " | Mripada Das |
| 27 | Bimal Ch. Das. | Kanchanagar | " | Bimal Das |
| 28 | সমীয়া ত্রিপুরা (৭৭৫) | Kanchan Nagar | H/W | Samiya Das (775) |
| 29 | ব্রজেন সীমান | DO | Business | Brijen Das |
| 30 | Nan' Gopal Bora | DO | Business | Nand Gopal Bora |
| 31 | সীমান মন্ডল | DO | Business | Suman Das |
| 32 | Topan Das, | Subhresh Lalay | Business | Topan Das |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAFA

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|----------------------|
| 55 | Prabir Debnath | Betaga | P/S | Prabir Debnath |
| 56 | Ranga Mohan | " | Business | Ranga Mohan |
| 57 | Raghunath Tripathi | " | " | Raghunath Tripathi |
| 58 | Dhirendra Ranga | " | " | Dhirendra Ranga |
| 59 | Sanjay Debnath | R.K Gony | Proadhan | Sanjay Debnath |
| 60 | Smiti Nandi | Ranchannagar | Business | Smiti Nandi |
| 61 | Ranjati Janalia | Kanu | " | Ranjati Janalia |
| 62 | Biswapati D/Barna | South Takri | " | Biswapati D/Barna |
| 63 | Sukesan D/Barna | Kajapur | " | Sukesan D/Barna |
| 64 | Bangla Mohan Nanda | Takmachau | " | Bangla Mohan Nanda |
| 65 | Panchelaxmi Tripathi | Gardhang | " | Panchelaxmi Tripathi |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 15.09.2014

Venue- BAGAF

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|------------------------------|-----------------|-----------------------------------|
| 66 | Malati Tripathy | Takmeslum | H/W | Malati Nautia |
| 67 | Bishnu Priyadarshi (NATI.) | Bedaga | Business | Bishnu priyadarshi das (NATI.) |
| 68 | Priyabasi Rudrapur | Bedaga | " | প্রিয়বাসী রুদ্রপুর |
| 69 | Ajit Das | R.K. Gang | " | Ajit Das |
| 70 | Shyamal Datta | Kanchan Nagar | " | Shyamal Datta |
| 71 | Nirapada Sar. | Tripura Aids Control Society | " | Nirapada Sar 15/09/14 |
| 72 | Suman Das | East Boreaf | " | Suman Das |
| 73 | Nanda Sar Das | | " | Nanda Sar Das |
| 74 | | | | |
| 75 | | | | |
| 76 | | | | |

DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তুনা সভার বিবরণ

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

Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:

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

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

Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া

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

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

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

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

Conclusion/ উপসংহার

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

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

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

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

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

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

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

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনুরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date:- 20.09.2014

Venue:- MATABARI

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 20.09.2014

Venue- MATABARI

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 20.09.2014

Venue- MATABARI

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|-----------------------------------|
| 25 | Sepali Das | w. Kungaban | | সেপালি দাস |
| 26 | Sepali Das | - Do - | | সেপালি দাস |
| 27 | Relu Das | - Do - | | রেলু দাস |
| 28 | Purabi Saha | - Do - | | পুরবী সাহা |
| 29 | Manika Majumder (Sarkar) | Matabari | | Manika Majumder CS Sarkar |
| 30 | Archana Debnath | - Do - | | Archana Debnath |
| 31 | Sahalam Niya Sarkar | Uttar Maharan | Member | সাহালাম নিয়া সর্কার মহা সিবান |
| 32 | Kalipa Kathan | - Do - | | কলিপা কথান |
| 33 | Skyamal Majumder | Poramati | proad Gam. | Skyamal Majumder |
| 34 | Ratna Majumder | v. Matabari | | Ratna Majumder (Das) |
| 35 | Manihar Begam | w. Kelpara | | Manihar Begam |
| 36 | Ranu Acha | w. Do - | | Ranu Acha |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

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

Venue- MATABARI

Date- 20.09.2014

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 20.09.2014

Venue- MATABARI

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|-----------------------|
| 49 | Prabal Ghosh | Matabari | | Babul Ch. Ghosh |
| 50 | Dulal Majumdar | - DO - | | Subash Sharma |
| 51 | Sabiya Bibi | - DO - | | Subash Sharma |
| 52 | Nareesh Chakraborty | - DO - | | Nareesh Chakraborty |
| 53 | Hemangshu Das | - DO - | | Subash Sharma |
| 54 | Sefali Datta | Kelpara | | Sefali Datta |
| 55 | Chinda Hazra Das | Matabari | | Chinda Hazra Das |
| 56 | Runu Nag | Pul Kumari | | Runu Nag |
| 57 | Goparani Das | - DO - | | Goparani Das (Sarkar) |
| 58 | Dutakani Dey | - DO - | | Subash Sharma |
| 59 | Pabitra Majumdar | - DO - | | Subash Sharma |
| 60 | Subash Sharma | S. Matabari | | Subash Sharma |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Venue- MATABARI

Date- 20.09.2014

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 20.04.2014

Venue- MATABARI

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|--------------------------|
| 76 | Prana Rani Dhaty | Uttar Maharani | | Prana Rani Dhaty |
| 77 | Shipra Datta | Uttar Maharani | | Shipra Datta |
| 78 | Inam Uddin | Kulpara | | Inam Uddin |
| 79 | Uma Sankar Ghosh | " | | Umarenkar Ghosh |
| 80 | Sohan Mia | " | | Soyam Mia |
| 81 | Nepal Ch Das | Pitra | | Nepal Ch. Das |
| 82 | Mahitaj Begam | - 00 - | | Mahitaj Begam |
| 83 | Pran Krishna Das. | Matabari | | Pran Krishna Das |
| 84 | Ashenjita Kar Sankar | Rajnagar | | Ashenjita K. Sankar |
| 85 | Swarna Bhattacharya | " | | Swarna Bhatt. Chatterjee |
| 86 | Sabitri Chakraborty | Laxmi Bari | | Sabitri Chakraborty |
| 87 | Sabita Das. | " | | Sabita Das |

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



Public Consultation Meeting
ATTENDENCE SHEET

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

Date- 20.09.2014

Venue- MATABARI

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 20.09.2014

Venue- MATABARI

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|------------------|-------|
| 100 | Affana Das (Deb) | Matabari | | |
| 107 | Shefali Datta | Khilpara | | |
| 102 | Jadulal Das | Matabari | | |
| 103 | Sukhla Das (Banik) | Rajnagar | P. Samiti Member | |
| 104 | Litan Kanti Sen | Kunjaban | | |
| 105 | Sujit Das | - DO - | | |
| 106 | Johal Palaeer | Paschim Khilpara | Member | |
| 107 | Subash Karmakar | Kunjaban | | |
| 108 | Aba Dey | ful Kumari | | |
| 109 | Simanatta Das | W. Khilpara | | |
| 110 | Mohidul | W. Khilpara 'Samati' | | |
| 111 | Ratna rani Sutarthar | - E. Kunjaban | | |

A B

DETAILS OF PUBLIC CONSULTATION MEETING/জন মন্তুনা সভার বিবরণ

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

Point addressed to the people/ জানা সাধারণের উদ্দেশ্য ভাসন:

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

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

Response from Public/ জানা সাধারণের থেকে প্রতিক্রিয়া

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

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

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

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

Conclusion/ উপসংহার

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

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

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

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

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

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

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

প্রকল্প বাস্তবায়নে জনসাধারণের সহযোগিতার অনুরোধের সঙ্গে সভা সমাপ্তির ঘোষণা করা হয়েছে

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Venue- SATCHAND

Date- 26.09.2014

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|---------------------------|-----------------|--------------------------|
| 1 | Smt. Broui Pal | Theikun | Member | |
| 2 | Smt. Muniti Tripura | Uttasghorak | Member | Monaji Tripura |
| 3 | Smt. Swapna Das | Dakshin, Chotaloli | Member | স্বপ্না দাস |
| 4 | Smt. Ranjannala Tripura | Kalachara | Member | Kanchan Tripura |
| 5 | Smt. Kalita Das | Nahagram | member | কলিতা দাস |
| 6 | Smt. Khokan Ray | Kalachara | upa - Pradhan | Khokan Ray |
| 7 | Smt. Ganesh Ch. Ray | - do - | member | Ganesh Ch. Ray |
| 8 | Smt. Nibedita Nandi Khowmik | Purba Harina | Pradhan | Nibedita Nandi (Bhowmik) |
| 9 | Smt. Usha Rani Ray | Purba Harina, Kula Salepa | member | উষা রানী রায় |
| 10 | Smt. Santibala Ghil | Purba Harina | Member | সন্তিলা গিল |
| 11 | Ratna Debnath | - do - | - do - | রত্না দেবনাথ |
| 12 | Smt. Kamal Krishna Debnath | - do - | - do - | Kamal Krishna Debnath |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|-----------------------|
| 13 | si Dulal Das | Purba Harin | Member | Dulal Das |
| 14 | si Shironjy ch. Tripura | Satchand | Member | Shironjy Choudhary |
| 15 | si kritish ch. pal | Manuhabar | Member | Krishna Choudhary |
| 16 | Smt. Jharna Das (Name) | - do - | Member | Jharna Das (Name) |
| 17 | Smt. Swarna Das | - do - | - do - | Swarna Das |
| 18 | Smt. Bapi Majumdar | Battala | - do - | Boppi Majumdar |
| 19 | Smt. Lipika Das Majumdar | - do - | - do - | Lipika Das (Majumdar) |
| 20 | Smt. Laxmi Banik | Manuhabar | - do - | Laxmi Banik |
| 21 | Sri Shymal Choudhary | - do - | - do - | Shymal Choudhary |
| 22 | Smt. Shipra pal | - do - | - do - | Shipra Paul |
| 23 | Smt. Sarawati Karmakar | - do - | - do - | Sarawati Karmakar |
| 24 | " Ranjan Mala Tripura | Bojaj nagar | - do - | Ranjana mala |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

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

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



Public Consultation Meeting
ATTENDENCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

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

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|--------------------------|
| 47 | Sh. Anup choudhury | Kalapauri | Member | Anup Choudhury |
| 48 | Smt- Lipi Roy Das | B.K. Pally Panchajet. | Upa Pradhan | Lipi Roy (Das) |
| 49 | Sh- Akher Paul | Nabagram | - DO - | Akher Paul |
| 50 | " Krishna Batta | Satchand | Member. | Krishna Batta |
| 51 | Smt- Jayapati Tripura | - DO - | - DO - | Jayapati |
| 52 | " Rajal Rani Das | Nabagram. | - DO - | Rajal Rani Das |
| 53 | " Mrachandra (Choudhury) Das | Satchand | - DO - | Mrachandra Das Choudhury |
| 54 | Sh. Prabha Ran Tripura | - DO - | - DO - | Prabha Ran |
| 55 | Smt- Satirang Tripura | Sendu Khatar ADC. | Chair Person. | Satirang Tripura |
| 56 | Sh. Tejha Ran Das | Kalabhara. | Member | Tejha Ran Das |
| 57 | " Biswanath Ray | Nabagram. | - DO - | Biswanath Ray |
| 58 | " Depak Banik | Manu Bazar | Member. | Depak Banik |

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



Public Consultation Meeting
ATTENDENCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|-------------------|
| 59 | Sh. Raj Kumar Das | Thaiban | Pradhan | Raj Kumar Das |
| 60 | Smt. Radha Debnath | - Do - | Member | Radha Debnath |
| 61 | " Gouri Paul | - Do - | - Do - | Gouri Paul |
| 62 | " Sabita Nams | Damdama | - Do - | Sabita Nams |
| 63 | " Mani Das | Thaiban | - Do - | Mani Das |
| 64 | Sh. Ratna Sarkar | Nabagan | - Do - | Ratna Sarkar |
| 65 | Smt. Lalita Das | - Do - | - Do - | Lalita Das |
| 66 | " Archana Debnath | Gosatali | - Do - | Archana Debnath |
| 67 | " Phol Kali | - Do - | - Do - | Phol Kali Tripura |
| 68 | " Jyotsna Debnath | Kalapani | - Do - | Jyotsna Debnath |
| 69 | Sh. Sanjit Das | Kurba Harena | - Do - | Sanjit Das |
| 70 | " Parimal Patra | N. Gosatali | - Do - | Parimal Patra |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|--------------------|
| 71 | Sh. Partha Debbrishay | N. Patavri | Member | 8736 [Signature] |
| 72 | " Khitish Ch. Das. | N. Goratala | - do - | Khitish Ch. Das |
| 73 | " Dulal Das | N. Harina | - do - | Dulal Das |
| 74 | Smt Shipra Kuri (Wath) | B-K. Pally | - do - | Shipra Kuri (Wath) |
| 75 | " Rakhi Das | - do - | - do - | Rakhi Das |
| 76 | " Sukha Debnath | - do - | - do - | Sukha Debnath |
| 77 | " Omkar Ch Das | - do - | - do - | Omkar Ch Das |
| 78 | " Bishupal Paul | - do - | - do - | Bishupal Paul |
| 79 | Smt- Lakshmi Basak | Dandama | - do - | Lakshmi Basak |
| 80 | " Anu Majumdar (Banik) | - do - | - do - | Anu Banik |
| 81 | Sanjoy Choudhury | Sureth Bhanuwal | - do - | Sanjoy Choudhury |
| 82 | Sanjoy D/nath | - do - | - do - | Sanjoy Debnath |

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



Public Consultation Meeting
ATTENDANCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|------------------------------------|
| 83 | Sh. Parimal Debnath | Rajibnagar. | member - | Parimal Debnath |
| 84 | Smt - Jyotsna Chakrabarty | Kalochara. | - DO - | Jyotsna Chakrabarty (Bhattacharya) |
| 85 | Sh. Jayanta Bhosmik | Battala | - DO - | Jayanta Bhosmik |
| 86 | " Shibu Rajan Das | - DO - | " | Sibu R. Das |
| 87 | " Parwan Nana | N. Dalakar. | " | Parwan Nana |
| 88 | " Tapam Majumdar | Battala | " | Tapam Majumdar |
| 89 | Smt - Maya Rani Nath | - DO - | " | Maya Rani Nath |
| 90 | " Bebi Rani Das | Ettaraina. | " | Bebi Rani Das |
| 91 | " Renuka Das | - DO - | " | Renuka Das |
| 92 | " Putul Das | Jalapa. | " | Putul Das |
| 93 | " Parimal Shill | E. Jalapa. | Pradhan | Parimal Shill |
| 94 | Smt - Jayanti Tripura | - DO - | Member - | Jayanti Tripura |

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



Public Consultation Meeting
ATTENDENCE SHEET

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

Date- 26.09.2014

Venue- SATCHAND

| Sl. no. | Name of the Present Villager | Name of Village/Address | Work/Profession | Sign. |
|---------|------------------------------|-------------------------|-----------------|---------------------|
| 95 | Smt - Ratna Sharma | E. Jalapa | member. | Ratna Sharma |
| 96 | Sh. Jahar lala Sarkar | Nandigram | - DO - | Jahar Lal Sarkar |
| 97 | " Gananjoy Debnath | Rajibnagar | DO - | Gananjoy Debnath |
| 98 | " Amar Ch. Das | Sukanta Patha | - DO - | Amar Ch. Das |
| 99 | " Narayan Debnath | - DO - | " | Narayan Debnath |
| 100 | " Chintanaran Das | - DO - | Pradhan | Chintanaran Das |
| 101 | Smt - Shikha Das Majumdar. | Bisujoy nagar. | Member. | Shikha Das Majumdar |
| 102 | Sh. Biswajit Majumdar. | - DO - | " | Biswajit Majumdar |
| 103 | " Rajib Sarkar | - DO - | " | Rajib Sarkar |
| 104 | " Babatosh Majumdar. | - DO - | " | Babatosh Majumdar |
| 105 | Smt Madhu Sarkar. | - DO - | " | Madhu Sarkar |
| 106 | " Rina Sutradhar | - DO - | " | Rina Sutradhar |

PLATE - 1

PUBLIC CONSULTATION PHOTOGRAPHS

Photographs of Public Consultation held on 15th Sep'2014 at Bagafa



Photographs of Public Consultation held on 20th Sep'2014 at Udaipur



Photographs of Public Consultation held on 26th Sep'2014 at Satchand



ANNEXURE - 10
CONTENTS OF FEAR

Contents for Final Environment Assessment Report (FEAR) for Transmission and Distribution Project

Section - I: Project Description: Brief description of the background, objective of the project, resultant benefit and scope of the work.

Section – II: Baseline Data: Description of the relevant physical, physiographical, and socio-economic condition of the project area including description of natural resources base like forest resources or any other environment sensitive areas like National Park sanctuary etc. along with description of climatic condition, population and other demographic features of the project area.

Section -III: Policy, Legal and Regulatory Framework: Description of the policy, Legal and Regulatory framework applicable to transmission project and the environmental requirement under which environment assessment has been carried out.

Section – IV: Major Features of Final Route & Environment Impact: Brief description of the environmental criteria for selection of route and major features of final route alignment, details of forest involvement including number of trees and species of the trees likely to be effected. The details of forest clearance and environmental impact matrix describing in brief the extent of impact of transmission line.

Section – V: Potential Environmental Impact, Evaluation and its Management: Description of the measures adopted and under implementation for identified impact due to project location, design, construction, O&M details of public consultation and its documentation, details of contractual conditions regarding safeguard issues under scope of contract for compliance and conclusion listing the category of the project based on the impact and analysis.

Section – VI: Monitoring and Organization Support Structure: Description of the monitoring plan, reporting pattern/frequency, external monitoring requirement/timing for potential environment & social issues with compliance status of Environment Management Plan (EMP) and organization support structure.

Enclosures:

- 1) Original Topo / GIS map with Final route marked
- 2) Public Consultation details like list of participants, photos etc.
- 3) Copy of Forest proposal and Compensatory Afforestation plan.
- 4) Forest approval letters
- 5) Tree, Crop & Tower footing compensation details
- 6) Contract conditions regarding safeguard issues.
- 7) Budget/Expenditure
- 8) Compliance details of safety checklist/measures

ANNEXURE - 11
BUDGET ESTIMATE

BUDGET ESTIMATE TOWARDS FOREST AND CROP/TREE/ TOWER FOOTING COMPENSATION

Total 132 kV T/L length - 139.3 Kms.
Total 132 kV tower locations - 420 approx.

A. Compensation

1 Forest - Rs. 2845.00 lakhs.

2. Crop & Trees

- 132 kV T/L length in Private /Revenue land –85.27 Kms.

- Crop/tree compensation 132 kV line- (85.27 kms @ 5,00,000/-) - Rs. 426.35 lakhs

3. Land compensation for 132 kV tower footing- (256 towers x 13,600/-) - Rs 34.81 lakhs

Sub Total - A (1+2+3) - Rs. 3306.16 lakhs

B. Implementation Monitoring & Audit

- i) Man-power involved for EMP implementation & Monitoring in entire route of transmission Line (Rs.10, 000/- x 140Km) = Rs. 14.00 lakhs
- ii) Independent Audit (LS) if needed = Rs. 20.00 lakhs

Sub Total - B - Rs. 34.00 lakhs

GrandTotal (A+B) = Rs. 3340.16 lakhs