

#FORMAT FOR REPORTING DETAILS OF POLLUTED STRECHES OF TRANSMISSION LINES:

Project: _____ Name Of Line: _____ Voltage Level (kV) _____ Total Line Length (Kms.): _____

| Sl no. | Section Details | | | | Source of Pollution (Indicate S.no. of source) | Distance of source of Pollution from line section | Details Source of Distance Details of pollution measurement undertaken on dummy insulators viz | | | | | | Details of existing lines in vicinity w.r.t insulator design, performance & pollution measurement | | | |
|--------|-----------------|----|------------------------|--------------------------|--|---|--|--------------|---------------|----------------------------|---------------------------|----------------------------|---|---|-----------------------------------|------------|
| | From | To | Length of Line Section | No. of Suspension Towers | | | Details of Dummy Insulators | | | Periodicity of Measurement | SDD (mg/cm ²) | NSDD (mg/cm ²) | Voltage Level | No. & Type of Insulators per Susp. String | Performance (Indicate Category)** | Remarks*** |
| | | | | | | | Dia (mm) | Spacing (mm) | Creepage (mm) | | | | | | | |
| | | | | | | | | | | | | | | | | |

Not applicable for Transmission Lines with Composite Long Rod Insulators.

* Source of pollution -(a): sea, (b): power stations, (c): cement factories, (d): Fertiliser plants, (e): oil refineries, (f): brick kilns, (g):Coal mines, (h): salt farms, (i) bird drops near butcheries/ . sanctuaries, (j): fertilisers, (k): soil with high salt content, (l): Any other (Please mention)

** Performance category -(1): Satisfactory, (2): Occasional tripouts, (3): Frequent tripouts/ line drops

***Remarks – Indicate additional information like special maintenance practices followed, levels of pollution measurements if carried out etc.

For further details please refer the following Format

QUESTIONNAIRE FOR COLLECTION OF POLLUTION DATA IN RESPECT OF TRANSMISSION LINES

1. Distance from sea-Coast (Route alignment indicating distances from sea coast may be enclosed) :
2. Details of industries along the proposed route (Power stations, Cement factories, Fertiliser plants, Oil refineries Brick-kilns, Coal mines, Salt Furnaces etc.) :
 - a. Type of Industry :
 - b. Distance from the proposed route (please mark position of industries in the route map) :
 - c. Nature of pollutants. :
 - d. Details of stretches of lines (in kms) expected to be affected by above industries). :
3. Details of proposed industries along the Proposed route (Data may be collected From concerned authorities) :
4. Details of existing lines in the vicinity Of proposed route alignment :
 - a. Name of line, voltage level, Utility :
 - b. How long in service. :
 - c. Type of insulators used (Standard! Antifog) :
 - d. Details of insulator strings . (Nos. per string) :
 - e. Has ever pollution measurement carried out by the utility. :
 - f. Any specific steps being taken to counter pollution problems (Like hot line washing, insulator surface coating, cleaning of insulators etc.) :
 - g. Performance of line (No. of ; tripouts/flashovers, failure of insulators etc. as collected from concerned utility) :
 - h. Approx. distance between the Line and proposed route. :
 - i. Any other information (Corrosion of insulator pin, towers, line drops etc.) :
5. Any butcheries / Bird sanctuaries along the route Alignment where bird drops may be anticipated (indicate position of the route map) :
6. Vicinity of highways :
 - a. Distance from proposed route. :
 - b. Length of parallelism :
7. Any specific area along the route alignment where soil may have salt content which may affect the insulator performance (Identify area on route maps) :
8. Details of cultivated fields where fertilisers are frequently used (Identify areas on the route maps) :

- 9. Details of natural rain :
 - a. Duration of rainy season :
 - b. Extent of rain. :
- 10. Details of thunderstorm conditions (Very frequent/frequent/less frequent) :
- 11. Details of Pollution measurement if any, carried out using dummy insulators/ existing lines nearby:- :
 - i. Measurement conducted on insulator - Type, dia, spacing & creepage :
 - ii. SDD , :
 - iii. NSDD :
 - iv. Type of pollutant :
 - v. Periodicity of measurement: Values corresponding to :
 - a. Quaterly :
 - b. Half yearly :
 - c. Yearly :
 - d. Two yearly :
- 12. Any other information. :

FORMAT FOR REPORTING RESULTS OF SURVEY OF RIVER CROSSING STRETCH OF TRANSMISSION LINE

Inputs:

River crossing profile, ground profile, GL, HFL, Tower type, Reference bench mark details:

- Base width
- Slope
- Loads
- Stub sections/ Leg sections

Soil Report (up to 40m. depth)

- N Value
- Cohesion © and friction angle (ϕ)
- Dry Density & Submerged density of soil
- Soil composition including bore log data.
- Soil Strata distribution details depth wise
- R.L of ground (Soil investigation and foundation location)
- Mean grain size
- Silt factor calculations
- Scour depth calculations
- Special Recommendations, if any.
- River crossing profile showing the position of R.C towers and Anchor towers with span details.
- Any other details like bunds, roads, bridges etc. with their R.L.S.

River Values

- Max. discharge
- Max. velocity (Vmax.)
- HFL
- Clear water way
- River Meandering history.
- Navigable/ Non Navigable
- Location reference of above River values for crossing details.
- River bed level. (RL)

FIELD QUALITY PLAN FOR TRANSMISSION LINES

Document No. C/A/DA/QA&I/SFQP/TL/030, Rev 01

| S.No. | Description of Activity | Items to be Checked | Tests/Checks to be done | Ref documents | Check/Testing | | Counter Check/Test By Employer | Accepting authority in Employer |
|-------|-------------------------|-------------------------------------|--|--|--|--------------------------------------|--|---------------------------------|
| | | | | | Agency | Extent | | |
| 1. | Detailed Survey | a. Route alignment | Optimisation of route length | a. Preliminary survey. b. Topographical map c. Tower spotting datas given by Engg. | Contractor - do - - do - | 100% at Field - do - - do - | 100% based on record docuements - do - | Project incharge |
| | | b. Route profiling & tower spotting | 1. Ground clearance. 2. Cold Wt. Span 3. Hot Wt. Span 4. Sum of Adj span (wind span) 5. Angle of Devn. | a. Sag template b. Tower Spotting data c. Route alignment | Contractor - do - - do - - do - - do - | - do - - do - - do - - do - | 100% based on record documents - do - - do - - do - | Line incharge |

| | | | | | | | | |
|----|----------------------------|-------------------------------|--|---|----------------------|---------------------|--|--|
| 2 | Check Survey | Tower Location & Final Length | i. Alignment ii. Final Length | a. Route alignment b. Tower Schedule c. Profile | Contractor | 100% at Field | i). All angle towers in plains and 50% in hilly terrains ii). Final length to be checked on 100% basis based on records/documents | Section Incharge |
| 3. | Details Soil Investigation | a. Borelog | 1. Depth of bore log. 2. SPT Test 3. Collection of samples | As per Employer Specification | Contractor | 100% at Field | To witness 20% at Field | Section incharge. |
| | | b. Tests on samples | As per tech. Specs | - do - | Lab appd by Employer | 100% by testing lab | Review of lab test results | Line incharge based on the report review by CC Engg. |

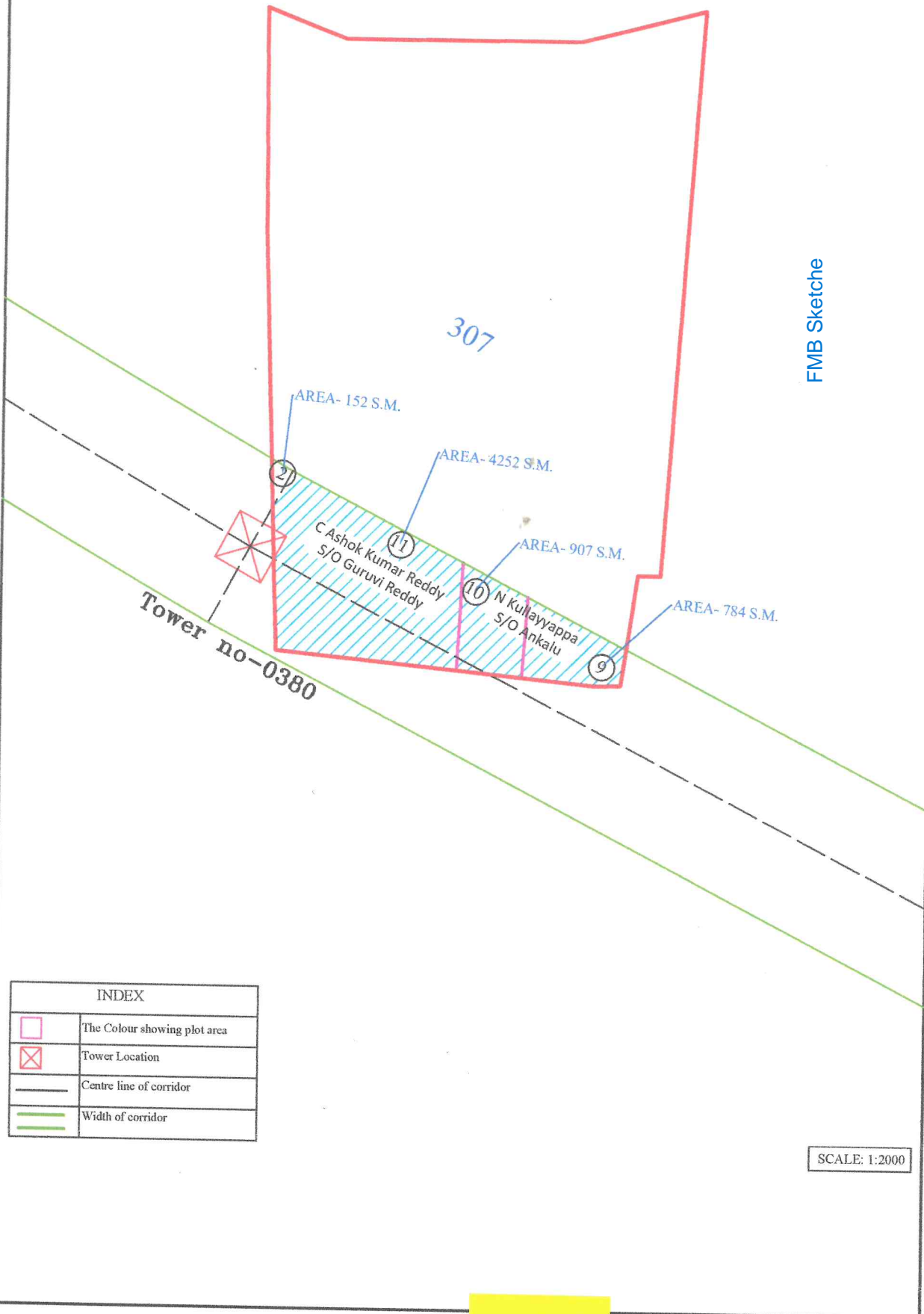
FMB SKETCH

Dist: Kadapa

Mandal: Pendimmarri

Village: Nandimandalam

Survey No: 307



FMB Sketche

| INDEX | |
|---|------------------------------|
| | The Colour showing plot area |
| X | Tower Location |
| | Centre line of corridor |
| | Width of corridor |

SCALE: 1:2000

N. Kuleyyappa
S/O. Ankalu
379-380

N. Kullu
S/O. Ank
379-380

S/O. Ank
379-380

N. Kuleyy
S/O. Ank
379-380

Kuleyy
S/O. Ank
379-380

| LAND COMPENSATION | | | | | | | | | | | | | | |
|--|------------|-----------|---------------|------------|-------------------------------------|--------------------------|-----------------|----------------|-------------------------------|----------------------------|-------------------------------|---|--------------------------------|----------------------|
| LOT | | | | | | | | | | | | | | |
| POWERGRID GOMTI-YAMUNA TRANSMISSION LTD. | | | | | | | | | | | | | | |
| LIL0 765KV S/C LOOP IN GHATAMPUR-HAPUR TRANSMISSION LINE | | | | | | | | | | | | | | |
| SL. NO | Notice No. | TOWER NO. | TYPE OF TOWER | KHASRA NO. | NAME OF LAND OWNER / CO-OWNERS | TOWER BASE AREA (SQMTRS) | NAME OF VILLAGE | NAME OF TEHSIL | APPROVED RATE PER HECTARE (₹) | TOWER BASE AREA IN HECTARE | 100% TOWER BASE LAND COST (₹) | COMPENSATION AS PER ORDER NO. 2643 IS 85% LAND COST (₹) | LAND OWNER BANK ACCOUNT NUMBER | LAND OWNER BANK IFSC |
| 1 | 131 | 2/0 | DH+0 | 86 | Harmandeep Singh S/o Amandeep Singh | 354 | Khamariya | Milak | 4600000 | 0.0354 | 162840 | 138414 | 08532191003260 | PUNB0119710 |
| 2 | 141 | 3/0 | DH+0 | 123 | Mewaram S/o Shobharam | 348 | Dulichandpur | Milak | 2800000 | 0.0348 | 97440 | 82824 | 15970100004049 | BARBORATHOD |
| | | | | 284 | Veerpal S/o Pooranal | 6 | | | 2800000 | 0.0006 | 1680 | 1428 | 051913000003703 | ICIC00RAMPR |
| 3 | 360 | 4/0 | CH+0 | 427 | Balakram S/o Kaishoram | 266 | Aconda | Milak | 2800000 | 0.0266 | 74480 | 63308 | 15970100006223 | BARBORATHOD |
| | | | | 424 | Chandrwati W/o Veerbal | 102 | | | 2800000 | 0.0102 | 28560 | 24276 | 87470164569915 | PUNBOSUPGB5 |
| 4 | 127 | 4/1 | AH-3 | 409 | Harcharanlal S/o Sohanlal | 208 | Aconda | Milak | 2800000 | 0.0208 | 58240 | 49504 | 15970100005149 | BARBORATHOD |
| 5 | 119 | 4/2 | AH+0 | 376 | Asalam Khan S/o Madadan Khan | 243 | Aconda | Milak | 2800000 | 0.0243 | 68040 | 57834 | 28560110040454 | UCBA0002856 |
| 6 | 118 | 4/3 | AH+3 | 310 | Moveen jahan W/o Haroon Ahmad | 279 | Aconda | Milak | 2800000 | 0.0279 | 78120 | 66402 | 15978100013903 | BARBORATHOD |
| 7 | 116 | 5/0 | DH+25 | 268क | Sharafat Husain S/o Mushtak Husain | 46 | Aconda | Milak | 2800000 | 0.0046 | 12880 | 10948 | 11587729012 | SBIN0000584 |
| | | | | 268क | Julfkar Ali S/o Irshad Ali | 483 | | | 2800000 | 0.0483 | 135240 | 114954 | 15978100000228 | BARBORATHOD |
| | | | | 268क | Bahar Hussain S/o Irshad Hussain | 483 | | | 2800000 | 0.0483 | 135240 | 114954 | 15978100000202 | BARBORATHOD |