

| Indicative Cost Matrix for various alternatives at different voltage levels | | | | |
|---|-------------------|------------------------------|-------------------|--|
| Voltage Level | Type of tower | Span (in m) | Type of Conductor | Indicative cost for laying of transmission line per Km based on past experience (Rs. In Crore) |
| 765 kV D/C | Normal | 400 | Hexa Zebra | 3.83 |
| | | 250 | Hexa Zebra | 4.79 |
| | Narrow Base | 400 | Hexa Zebra | 9.72 |
| | | 250 | Hexa Zebra | 12.14 |
| | Pole** | 250 | Hexa Zebra | 13.41 |
| | Underground Cable | Technologically not feasible | | |
| 400 kV D/C | Normal | 400 | Quad Moose | 2.11 |
| | | | Twin HTLS | 1.41 |
| | | | Twin Moose | 1.24 |
| | | 250 | Quad Moose | 2.64 |
| | | | Twin HTLS | 1.76 |
| | | | Twin Moose | 1.55 |
| | Narrow Base | 400 | Quad Moose | 5.36 |
| | | | Twin HTLS | 3.58 |
| | | | Twin Moose | 3.15 |
| | | 250 | Quad Moose | 6.70 |
| | | | Twin HTLS | 4.48 |
| | | | Twin Moose | 3.94 |
| | Pole | 250 | Quad Moose | 7.39 |
| | | | Twin HTLS | 4.94 |
| Twin Moose | | | 4.34 | |
| Underground Cable@ | | | 12 | |
| GIL *** | | | 70 | |
| 220 kV D/C | Normal | 350 | Zebra | 0.53 |
| | | | HTLS | 0.64 |
| | | 200 | Zebra | 0.66 |
| | | | HTLS | 0.8 |
| | Narrow Base | 350 | Zebra | 1.34 |
| | | | HTLS | 1.63 |
| | | 200 | Zebra | 1.68 |
| | | | HTLS | 2.04 |
| | Pole | 250 | Zebra | 1.86 |
| | | | HTLS | 2.24 |
| Underground Cable@ | | | 7.2 | |
| 132 kV D/C | Normal | 320 | Panther | 0.36 |
| | | 150 | Panther | 0.45 |

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|--------------------------|--------------------------------|-------------|-------------------|--|
| | Narrow Base | 320 | Panther | 0.76 |
| | | 150 | Panther | 1.14 |
| | Pole | 250 | Panther | 1.26 |
| | Underground Cable [@] | | | 1.8 |
| 800 kV HVDC (Horizontal) | Normal | 400 | Lapwing | 2.69 |
| | | 250 | Lapwing | 3.36 |
| 500 kV HVDC (Horizontal) | Pole | 250 | Lapwing | 9.42 |
| | Normal | 400 | Lapwing | 1.32 |
| | | 250 | Lapwing | 1.65 |
| | Pole | 250 | Lapwing | 4.62 |

All costs are indicative exclusive of RoW Cost. For transmission lines mounted on poles, design span used is lower than normal span.

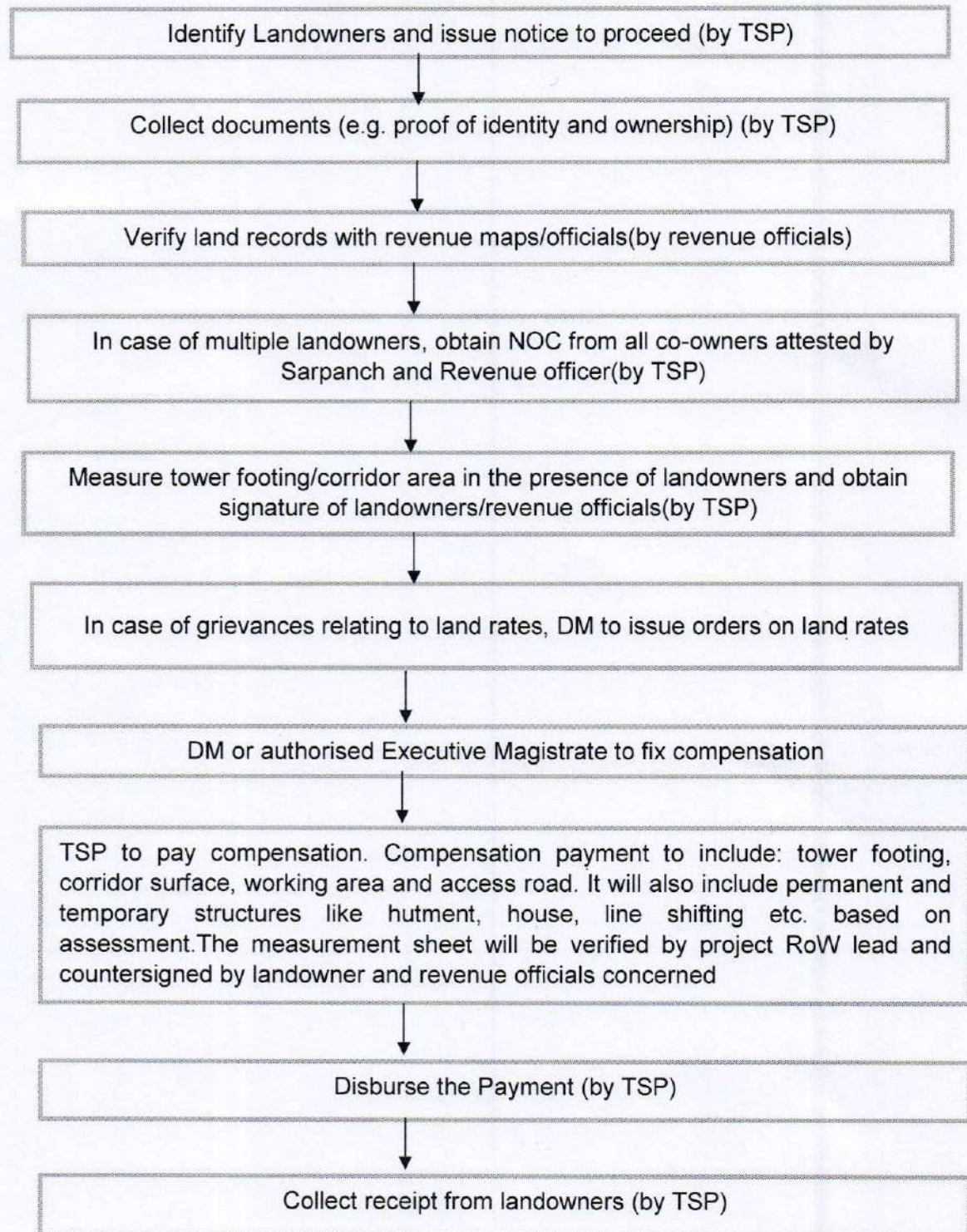
Note: Different insulator string configurations (I and V Types) would not account for considerable difference in per km cost of transmission lines, hence not have been factored in the matrix.

**** Poles prevalent are only for S/c. 765 kV D/C Pole under Design / R&D**

@ Underground Cable for short distances.

***** No GIL experience in country.**

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Standard Operating Procedure (SOP)*2/1/17*