

SCOPE OF WORK FOR ADDITIONAL MS ROD EARTHING WORK IN 400 kV & 220 kV TRANSMISSION LINES

GENERAL

The contractor shall carry out the work for providing **additional MS Rod Earthing** in various **400 kV and 220 kV transmission lines** under the jurisdiction of POWERGRID, in strict accordance with the technical specifications, drawings, and instructions of the Engineer-in-Charge.

Before quoting the rates, the contractor shall thoroughly acquaint himself with the site conditions, terrain, accessibility, nature of soil, and all other factors affecting execution of the work. The work may be required in normal soil, agricultural land, waterlogged areas, or any other terrain. No extra payment shall be admissible on account of variation in soil conditions, and the quoted rates shall be deemed to include all such contingencies.

All materials required for erection of additional earthing, such as **MS Earthing Rods, GI/MS Earthing Wire, GS Lugs, Nuts & Bolts** shall be supplied by **POWERGRID free of cost** from its store at **Kartarpur**.

The contractor shall arrange transportation of all owner-supplied materials from **POWERGRID Store, Kartarpur** to the respective work sites at his own cost. The contractor shall also provide all necessary tools & plants, manpower, safety equipment, consumables, excavation arrangements, and any other resources required for successful completion of the work.

WORK AREA

The work shall be carried out on various **400 kV and 220 kV Transmission Lines** under the jurisdiction of **POWERGRID, Northern Region-II**, or at any other location as directed by the Engineer-in-Charge.

DETAILED SCOPE OF WORK

The scope of work shall include, but not be limited to, the following:

1. Transportation of all earthing materials supplied by POWERGRID from **Kartarpur Store** to the designated tower locations.
2. Survey and identification of tower locations requiring additional earthing as directed by the Engineer-in-Charge.
3. Excavation of pits of required dimensions near tower legs for installation of MS rod earthing.
1. Installation of **MS Rod Earthing** as per POWERGRID-approved drawings, technical specifications, and site requirements.
2. Laying and fixing of earthing conductor from the tower leg to the MS earthing rod.
3. Making suitable connections between tower leg, earthing conductor, and earthing rod using approved clamps, lugs, and hardware.
4. Backfilling of excavated pits after installation and ensuring proper compaction of soil.
5. Measurement of tower footing resistance after completion of earthing work wherever required by the Engineer-in-Charge.
6. Rectification/modification of earthing connections, if required, to achieve the desired earth resistance value.
7. Restoration of the work site to its original condition after completion of the work.
8. Compliance with all statutory safety requirements, POWERGRID safety procedures, and environmental regulations during execution of the work.
9. Submission of completion reports, measurement sheets, and test results as required by POWERGRID.