

Scope of work for Removal of Existing Cables for the Work of Retrofit of Existing Conventional Control and Protection System with New IEC 61850 Process Bus Based Substation Automation System and Control & Protection System at 400/220KV Kanpur Substation

- i. Removal of DC power and control cables between all Primary Equipment, ICT MBs, Reactor MBs, BMBs etc. and the existing Control/Relay, PLCC panels of bays as per BOQ and shifting & placement of same at an identified location in the substation as per requirement.
- ii. Removal of the existing power and control cables between the existing Control & Relay Panels and Gateway/RTUs/DCDB as per BOQ and placement of same at an identified location in the substation as per requirement
- iii. Removal of Cable trench covers for removal of cables and re-placement of cable trench covers after completion of new cable laying works.
- iv. Dismantled cables are to be properly rolled and tied suitably before shifting them to a specified location. Providing cable drums is not in the scope of Contractor.
- v. Existing Cable terminations to be removed under the supervision of POWERGRID.
- vi. Existing cable glands to be removed and handed over to POWERGRID.
- vii. The dismantling work is to be done in a phased manner depending on shutdown (preferably bay-wise shutdown). Various shutdowns shall be co-ordinated based on the new commissioning works to be done in all bays.
- viii. Any supply or laying of new cable, its glands, new termination work is excluded from the Scope of work of Contractor.
- ix. Considering that the substation is old and existing cables laid in cable trenches may not be stacked/routed properly at some places in the trenches, the Contractor is advised to do pre-bid survey and site visit, at his own discretion, to gain familiarity of the cabling system which is to be dismantled.
- x. It may be understood by the bidder/contractor that the existing cables laid (which are to be dismantled & removed) are distributed in varying length between switchyard cable trenches, cable trays in the cable vault room, and overhead cable trays inside the DCDB room and ceiling level up to control & relay panels mounted in control room.
- xi. Cables are to be removed in their full laid lengths, to the extent possible, without cutting the individual cables in between. However, if need arises to cut the individual cables in between to remove them from the cable trenches owing to their existing improper laying, intermingling of

cables, cable damages etc. then such cutting of individual cables shall be permitted with the consent of POWERGRID during actual site execution.

- xii. Removal of PVC pipes laid between primary equipment and cable trenches is not in the scope of Contractor.
- xiii. All T&P required shall be in the scope of contractor.
- xiv. Dismantling of existing 04 Nos. CSD under supervision and handing over to POWERGRID personnel.
- xv. Removal of cable will be done after commissioning of process bus in particular bay or element.

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