

ITC Scope of Relays

SCOPE OF WORK

(i) The erection portion involves installation of the relays in the existing panels, testing & commissioning along with necessary scheme wiring. Dismantling of Old relays which are to be retrofitted, shall be in the scope of the Contractor. Any modification of internal panel wiring, if required, including test block, lugging & cross-ferruling shall be in the scope of the bidder. Field wiring outside the CRP shall not be in the scope of the bidder.

(ii) Bidder have to check / inspect the schematics of existing panels for compatibility to suit the installation of numerical relays & Master trip relay. The complete engineering for successful installation of numerical relays is in the scope of bidder, including modifications required in the existing schematic drawing etc. Required existing schematic drawings etc. will be made available to the successful bidder. However, if required, bidder will have to depute their engineers for understanding the existing schematics, as in case of non-availability original drawings etc. For any modification required in the existing schematics, necessary clearance will have to be taken from TP Odisha DISCOM's authorities by submitting all calculations and drawings.

(iii) Bidder may visit the various stations mentioned in the BOQ for checking the condition of existing relays/ schematics, so that they can design suitable configurations for installation of numerical relays. Necessary clearance of TP Odisha DISCOM for inspection needs to be taken.

(iv) Bidder will have to do the new wiring for commissioning of their supplied numerical relays, for integration of the same in the existing protection schematics of the feeder. Similarly, all the mechanical works, cutting of panel, providing blanking plates (if required), installation of T.B.s, Fuses & Links etc. are also in scope of bidder. Wiring modifications which are internal to CRP, including supply of wire / cables required for relay Retrofitting shall be in the scope of bidder.

(v) Bidder needs to ensure wiring of watchdog contact the offered relay in the existing other relay on another DC source i.e Source-1 or Source-2.

(vi) At old based sub-stations, Integration of supplied relay in SCADA is not in the scope of bidder (which shall be taken separately by TP Odisha DISCOM), however, configuring the .icd file of the relay and any coordination required for the same shall be in the scope of bidder.

(vii) Connection of all these relays with existing stand-alone PC of TP Odisha DISCOM (in control room) through LAN cable supported with IEC 61850 protocol for extraction of DR as well as for parametrization shall be in the scope of bidder.

(viii) Bidder shall be permitted to use all the existing auxiliary relays, for commissioning of their Numerical relay. Further, all the hardware and arrangements required for successful installation of new relays is also in the scope of supply (e.g. 2.5sq mm copper wires for intra and inter-panel wiring, lugs, Gland, ferrules, ties, Terminal blocks, Fuses, Links, MCBs, Test Block/ Plug, Blanking Plates, channels, Auxiliary Relay-if required etc.).

(ix) Bidder shall arrange all necessary tools and plants, as well as testing instruments and

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any other special devices required for successful installation and commissioning of the numerical relays in their place. TP Odisha DISCOM shall supervise the work of testing and commissioning along with installation work. The entire work shall be done as per the requirements of TP Odisha DISCOM

(xi) Supply of any other item (hardware as well as software), which is not covered in this scope of work and if required for successful retrofitting, installation and commissioning of the relays, is in the scope of successful bidder.

(xii) As the switchyard will be in live condition, Bidder will have to ensure that the work be carried out with all safety precautions with safety tools and plants with their working staff.

(xiii) Relay Test kit – 3phase shall be provided by Bidder for testing.

(xv) The OEM representatives shall be experienced / expert enough for working under such conditions. The bidder has to provide valid authorization certificate from OEM.

(xvi) Bidder shall complete the entire work as per the technical specifications. The Bidder shall ensure the successful commissioning of all Relays by carrying out all necessary activities as mentioned above and also activities which are not mentioned and deemed required during the works for successful commissioning.

(xvii) Bidder shall submit detailed schematics/ configurations/ BOQ etc. for retrofitting work for approval of TP Odisha DISCOM.

(xviii) After completion of work, two (02) sets of as built scheme drawings and two(02) sets of manuals of relays as well as software will have to be submitted, in soft copy as well as hard copy.

(xix) The above said scope of work is only indicative; the scope of work shall also include all such items which are not specifically mentioned in the scope of work but necessary for successful, efficient and reliable performance of the equipment.