

1.1.0 INTRODUCTION & INTENT OF SPECIFICATION

BHEL is in the process of bidding on turnkey basis, for **400/220KV New Substation at Kishenganj and 400/220kV & 400kV Extension of substations at Kishenganj(Part B & TPTL Consultancy) & Patna**, The Owner of these project is M/s Powergrid Corporation of India Limited (PGCIL)

BHEL intends to have a tie-up for the complete **CIVIL WORKS ASSOCIATED WITH THE ABOVE PROJECT ON A BACK-TO-BACK BASIS** with the bidder whose offer is found to be most competitive.

1.2.0 SCOPE OF WORK

1.2.1 The scope of work shall cover, **in complete conformity to the PGCIL specification, on a back to back basis,, but not limited to**, following, based on Owner supplied drawings:

- (a) Foundations of 400kV Autotransformers including rail cum road, jacking pad, firewall, etc.
- (b) Foundations for gantries , eqpt support structures, LT transformers and DG Set.
- (c) Cable trenches alongwith covers, road rail crossings, sump pits, etc..
- (d) All roads as shown in GA drawings including culverts.
- (e) Antiweed treatment, PCC & stone spreading in switchyard area.
- (f) Drainage system.
- (g) Control room cum administrative building.
- (h) Building for firefighting pump house & fire water tank.
- (i) Permanent water supply for control room cum administrative building, and fire water tank.
- (j) Fencing for switchyard & gates.
- (k) Any other civil work required for completion of the project.

1.2.2 The works to be performed in the above constructions include preparation of bar bending schedules, based on the drawings released for construction and getting the same approved by the Engineer-in-charge plus the execution of the work including providing of all labour, supervision, materials, scaffolding, power, fuel, construction equipments, tools and plants, supplies, transportation, all incidental items necessary for successful completion of the work including contractor's supervision and in strict accordance with the drawings and specifications and with inspection and testing standards. The nature of work shall generally involve excavation in all type of soil including dewatering, shoring, strutting, and filling under and around structures, backfilling with available excavated earth around completed structures and cable trenches with covers, road crossing of trenches, disposal of surplus soil,

concreting including reinforcement and formwork, providing necessary steel embedments and other inserts, roadwork, drainage work, fencing work, stone spreading (including antiweed treatment & PCC), concreting, brickwork, flooring and finishing in buildings, etc., all complete as per detailed specification, drawings and directions of Engineer-in-charge.

- 1.2.3 Provision and maintenance of all temporary site construction buildings, facilities, office, storage, personnel accommodation facilities, transportation, water & power distribution and all other materials and services which may be required by legal dispositions, all labour and constructional equipment, management and supervisory staff to construct and commission the Works.

1.3.0 SPECIFIC TECHNICAL REQUIREMENT:

- 1.3.1 All technical requirement shall be as per the following documents which are attached at Annexure II.
- Technical Specifications for Civil Works.
 - Tender Drawings.

1.4.0 PRICE SCHEDULE

- 1.4.1 The Detailed Price Schedules shall be as per Annexure I (Part 1,2,3,4)
- 1.4.2 The quantities indicated in the Price Schedule are indicative and can vary to any extent. Contractor shall not be entitled for any claim for any such variation in the quantities.
- 1.4.3 The provision of Price Schedule, specifications and drawings shall be read in conjunction with each other and in case of conflict amongst them, the clarification shall be obtained from the Engineer-in-Charge whose decision shall be final and binding.
- 1.4.4 The mode of measurement shall be as per Clause 11 of PGCIL Technical Specification (Refer Annexure II)
- 1.4.5 The bidders are advised to give firm prices considering all eventualities. Nothing extra shall be payable over the quoted prices, for any reason whatsoever.