

SPECIFICATIONS- TECHNICAL PROVISIONS

1. General

- 1.1 All design, equipment, material and workmanship shall comply with and be tested in accordance with requirements of the specifications. Equipment or parts which are not covered by the specifications shall comply with rules, codes and regulations of the international electro-technical commission or approved National Standards bodies.
- 1.2 The general inlet of these specifications is to require the supply of equipment and material equal or superior to those actually described herein. Unless otherwise stated, reference to the brand or manufacturer, if made, is only for the sake of comparison as to type, design, character or quality of the equipment and material desired and shall not be interpreted as eliminating other equipment and material having equal performance, quality and durability.

2. SPECIFICATIONS AND DRAWINGS

- 2.1 The contract shall be executed in strict conformity with the specifications and/or drawing given or mentioned in this section and the supplier do no 'work' without proper specification, instructions and/or drawings.
- 2.2 Specifications and/or drawings are intended to complement each other so that if anything is shown on the drawings as required but not mentioned in the specifications or vice versa, it shall be of like effect as if shown or mentioned in both. If any errors, omissions or discrepancies are found in the figures, specifications and/or drawings or, if any feature shall appear to the supplier to be indefinite or unclear, the same shall be referred to the Procuring Agency whose written explanation and/or clarification shall obtained before proceeding with the work.
- 2.3 The supplier shall submit to Procuring Agency/ Purchaser, within 15 days of the issuance of the Notification of Award/Letter of Acceptance, for approval of the Procuring Agency, four (4) copies of all drawings, technical literature, data, operation and maintenance instruction books and/or manuals required under the specifications and such other documents as are required in the Technical Specifications or other provisions of the bidding documents or, if the Procuring Agency deems necessary, require changes or modifications to be made therein, the Procuring Agency shall return two copies to the supplier marked "Approved", "Approved as Noted" or "Returned for correction". Each drawing which is noted "Returned for Correction" shall be resubmitted to the Purchaser after corrections.
- 2.4 The supplier shall then prepare and submit to the Purchaser Three (3) prints and two (2) positive reproducible(s) of the approved drawings. One print shall be stamped "APPROVED" by the Purchaser and returned to the Supplier for his record.
- 2.5. On completion of the Contract, the Supplier shall deliver to the Purchaser six (6) sets of prints and two (2) sets of positive reproducible of all approved drawings, technical literature, data which show the work in the final or **"as built"** condition. The Supplier shall deliver one (1) set of reproducible of all the drawings to the office of Chief Engineer (Dev) GEPCO. The said drawing and documents shall be permanent and non-fadable.

The reproducible shall be made as high-quality polyester drawings film at least 0.07mm thick or approved equivalent suitable for producing clear prints.

- 2.6 The Supplier shall allow 30 days for the Purchaser's approval of drawings in his schedule of work and in the time allowed for completion of the Contract. Extra time required for approval of drawings due to deficiencies in design or errors in submitted drawings shall be the responsibility of the Supplier and no extension in time will be allowed on this account.
- 2.7 Approval by the Purchaser does not relieve the Supplier of his responsibility to do the work in accordance with the Contract.
- 2.8 The supplier shall be responsible for any discrepancies, errors or omissions in any drawings or other particulars supplied by him whether such drawings or particulars have been approved by the designated Evaluation/Vetting Committee or not.
- 2.9 All drawings and documents furnished by the Supplier in accordance with the Contract shall become the property of the Purchaser.
- 2.10 Wherever reference is made in the Technical Specifications to a specific standards or codes to be met by the goods and materials to be furnished or tested, provisions of the latest current edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Purchase Order. Where such standards and codes are national or relates to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

3. LANGUAGE

- 3.1 All correspondence, Technical literature/Brochures, drawings, name plates, diagrams, applicable data, equipment details, instructions and maintenance books manuals, spare parts books and descriptive data shall be in the English language.

4. UNITS OF MEASUREMENT

- 4.1 All dimensions and units given by the Bidder in the Bid with its associated drawings and the Approval Drawings as submitted by Bidder shall be metric system and all reference to weights, measurements and quantities shall be in metric units.

5. TYPE TESTS

- 5.1 The manufacturer/supplier shall supply **valid and Complete** Type Test reports as per relevant NGC (former NTDC) specification and/or NGC (former NTDC) Type Test policy (amended to date) along with the bid for the equipment offered from the Laboratories specified below;
 - i. KEMA Laboratories Holland.
 - ii. CESI laboratories Italy.
 - iii. CRIEPI Laboratories Japan.
 - iv. KERI, South Korea.
 - v. HV&SC Laboratory Rawat.
 - vi. HV&SC Laboratory RTL Faisalabad.
 - vii. Any other Laboratory accredited by STL and their subsidiaries/affiliates and those mentioned in NTDC Revised Type Test Policy circulated vide No. NTDC/CS/2730-35 dated 03-02-2023.

***Note:**

Submission of an undertaking to conduct fresh type tests shall not be accepted under any circumstances. Only already type-tested equipment, accompanied by **valid and complete** Type Test reports from designated laboratories, will be considered. Bids without valid type test reports, or with incomplete or missing reports, will be rejected/declared non-responsive without further consideration.

6. TECHNICAL SPECIFICATIONS

- 6.1 All the goods, the qualities of which are defined in Schedule of Prices for main equipment, shall be of the material in accordance with the Technical Specifications as mentioned below.
- 6.2 The following Technical specifications are to be strictly adhered to:

Sr. No.	Item Description	NGC Specification
1	Distance Relays	P-151:2008(Amended-to-date)