

**SECTION V: SCHEDULE OF REQUIREMENTS, TECHNICAL  
SPECIFICATIONS**

PESCO

## SPECIFICATIONS- TECHNICAL PROVISIONS

| Sr. No. | Description of Material | Specification                                             |
|---------|-------------------------|-----------------------------------------------------------|
| 1       |                         | As per NGC relevant Specification<br>(amended up-to date) |
|         |                         |                                                           |

### 1. GENERAL

- 1.1 All design, equipment, materials 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 intent of these specifications is to require the supply of equipment and materials equal or superior to those actually described herein. Unless otherwise stated, reference to the brand or manufacture, 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 of equal performance, quality and durability.

### 2. SPECIFICATIONS AND DRAWINGS.

- 2.1. The contract shall be executed in strict conformity with the specifications and / or drawings given or mentioned in this section and the supplier shall do no 'Work' without proper specifications, 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 Engineer whose written explanation and/or clarification shall be obtained before proceeding with the work.
- 2.3 The supplier shall submit to the Engineer within 15 days of the issuance of the Letter of Acceptance, for approval of the Engineer, 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 he deems necessary, require changes or modifications to be made therein, he 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 Engineer after corrections.
- 2.4 The Supplier shall allow 15 days for the Engineer'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. Delays in obtaining approval caused by the Engineer beyond 15days will entitle the Supplier to an extension of time.
- 2.5 Approval by the Engineer does not relieve the Supplier of his responsibility to do the work in accordance with the Contract.
- 2.6 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 Engineer or not.
- 2.7 All drawings and documents furnished by the Supplier in accordance with the Contract shall become the property of the Purchaser.
- 2.8 Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current

Signature and seal of the  
Manufacturer/Bidder

edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. 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, literature, drawings, name plates, diagrams, applicable data, equipment details, instructions and maintenance books and manuals, spare parts books and descriptive data shall be in the English language.

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#### **4. UNITS OF MEASUREMENT**

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

#### **5. TYPE TESTS/ PROTOTYPE**

- 5.1 The supplier shall supply valid type test reports from an independent testing laboratory accredited by STL or Any other reputed / recognized laboratory acceptable to NGC/WAPDA/ PESCO/PPMC with the bid for equipment offered as per NGC Type Testing Policy (Amended to date) and the non-provision of valid type test, the Bidder will be declared as Non-responsive.
- 5.1.1 For procurement of proprietary items (Industrial gases, Mineral oil & its Products, Office Furniture, Genuine Spare Parts of specific brands, all parts of existing machinery of Grid Station & Sub-Station from original manufacturer, T&P, Testing Equipment, Fire Fighting Equipment, etc.) type test report will not be required and material will be accepted on provision of (i) literature / brochure (ii) Factory Acceptance Test (iii) Visual Inspection with the following warranty and test certificate.
- 5.1.2 In case of Material/equipment and other applicable Items where prototype is required as per NGC policy (Amended to date), only the approval of prototype from NGC is required and shall be submitted with the Bidding documents.

#### **6. Warranty**

- 6.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 6.2 The Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 6.3 Unless otherwise specified in the PCC, A warranty to the effect that the goods offered conform exactly to the specifications laid down in this Contract and that the goods in question have also been tested and checked prior to delivery & that the goods in question are new and free from all defects, and that in the event of goods being found old or defective or not conforming to the specifications or not in conformity with the test certificate, you will be held responsible for all losses and that you agree to substitute the unacceptable goods with the acceptable goods at your risk and cost provided the above mentioned defects/deficiencies are noticed within 18 months from the date of installation/ commissioning or 24 months from the date of delivery of last consignment whichever is earlier.
- 6.4 The Purchaser shall give Notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 6.5 Upon receipt of such Notice, the Supplier shall, within the period specified in the PCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 6.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the PCC, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract

**7. Test Certificate**

The firm will enclose with each consignment, manufacturer's test certificate in triplicate conforming that the goods offered conform to requirements of the tender and specification/literature / broucher provided with the equipment.

**8. TECHNICAL SPECIFICATIONS.**

The technical specification of equipment/material will be as per WAPDA/NGC specification amended to date.

**Quality Determining Parameters:**

As prescribed in ITB 35.2 and respective portion of Bid Data Sheet

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