

GENERAL TECHNICAL SPECIFICATION: PART-B

GENERAL TECHNICAL SPECIFICATION FOR THE WORK

1.0 GENERAL

- 1.1 This technical specification is for the work of renovation of complete 3rd floor of NRPC Building, 18-A, Qutab Institutional Area, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi. All works including Civil works, electrical works, LV works, HVAC works, plumbing works, Air Conditioning, firefighting works and other associated works are to be carried out strictly as per specification provided herewith.
- 1.2 All works shall be carried out as per design/drawings provided by the Contractor and as per these specification provided by the Employer. *In case design/drawings are prepared by the contractor then these shall be approved by the employer before execution.* In case any item is not covered under specification then the same shall be carried out as per CPWD specification /applicable BIS Standards and Codes. Any item for which specification is not provided herein and is not covered under CPWD specification/ BIS Standards, the same shall be executed as per manufacturer guidelines with the approval of employer. All materials shall be of best quality conforming to relevant Indian Standards and Codes. In case of any conflict between Standards/ Code and Technical Specification, *the order of precedence shall be as under:*
- 1.2.1 *Technical specification,*
- 1.2.2 *BIS codes*
- 1.2.3 *CPWD specification.*
- The decision of engineer in charge in this regard shall be final and binding.*
- 1.3 Wherever reference to CPWD/BIS Codes is made, it shall be to the latest edition/revision of the same, issued up to 7 days prior to the date of opening of this tender.
- 1.4 The Contractor shall arrange all labour, tools, equipment, materials, temporary works, constructional plant & machinery, fuel supply, transportation and all other incidental items not shown or specified but as may be required for complete performance of the Works in accordance with drawings, specifications and direction of Employer.
- 1.5 All materials including cement, reinforcement steel, structural steel etc. shall be arranged by the Contractor.

- 1.6 All testing required shall be arranged by the Contractor at his own cost.
- 1.7 The bidder shall fully apprise himself of the prevailing conditions at the proposed site, Climatic conditions including monsoon patterns, local conditions and site specific parameters, soil parameters, availability of construction material and shall include for all such conditions and contingent measures in the bid, including those which may not have been specifically brought out in the specifications.
- 1.8 The Contractor shall provide all assistance in instruments, materials and personnel to the Employer for checking the detailed layout and shall be solely responsible for the correctness of the layout and levels. Finished Ground Level (FGL) shall be decided by the employer.
- 1.9 The material specification, workmanship and acceptance criteria shall be as per approved standard Field Quality Plan. In case certain item is not covered in FQP, it shall be constructed as per CPWD specification/ relevant BIS.

2.0 STANDARD/GENERAL ARRANGEMENT DRAWINGS:

All tender drawings shall be read in conjunction with this specification. Discrepancy if any shall be brought to the notice of Employer prior to quote.

3.0 MISCELLANEOUS REQUIREMENTS:

The material specification, workmanship and acceptance criteria shall be as per approved standard Field Quality Plan / Technical Specification of corresponding items attached with this document. In case certain item is not covered in FQP, it shall be constructed as per CPWD specification.

4.0 INTERFACING:

- 4.1 The proper coordination & execution of all interfacing works / activities shall be the sole responsibility of the Contractor. He shall plan all such activities in advance and execute in such a manner that interfacing activities do not become bottlenecks and dismantling, breakage etc. is reduced to minimum.
- 4.2 Any interface work (*including data, information, etc*) required to be carried out in association with other agencies / contractor shall be coordinated by contractor based on instruction of E-I-C.

5.0 STATUTORY RULES:

- 5.1 Contractor shall comply with all the applicable statutory rules pertaining to factories act (as applicable for the State), Fire Safety Rules of Tariff Advisory Committee, Water Act for pollution control etc.
- 5.2 Statutory clearance and norms of State Pollution Control Board shall be followed as per Water Act for effluent quality from plant.
- 5.3 All building/construction materials shall conform to the best quality specified in CPWD specifications if not otherwise mentioned in this specification.
- 5.4 All tests as required in the standard field quality plans have to be carried out without any financial implication to employer.

6.0 PRESERVATION OF PROPERTY/AMENITY:

The Contractor shall provide and install at his own expenses, suitable safeguards approved by the Engineer-in-Charge to safeguard the construction area from other area. However, if any of these objects is damaged by reason of the Contractor's negligence, it shall be replaced or restored to the original condition without any financial implication to POWERGRID.

7.0 BASIC RATE OF ITEMS:

Rate of Items where basic rate of raw/input material is mentioned in BOQ:

In some of items, basic rate of raw/input material is mentioned in the description of BOQ. The actual basic price of that raw material (Approved by Engineer-in-charge) may vary. Then the approved rate of the item will be governed as “rate of item in BOQ (+ /-) (difference in basic rate of raw/input material) x 1.01 x 1.15”.

- 8.0 There are/may be some BOQ items in the Bid price schedule (BPS) under different sub-head with same item description. Rate quoted by bidder for all such BOQ items shall be considered to be same irrespective of its sub-head in the BOQ/BPS. In case of variation in quoted rate for all such BOQ items, Lower of the quoted rate shall be considered for accounting purpose.

9.0 MAKE/BRAND OF MATERIALS

- 9.1 ALL MATERIALS & ITEMS SHALL COMPLY WITH THE RELEVANT BIS CODES AND SHALL BE BIS MARKED WHEREVER APPLICABLE.
- 9.2 THE CONTRACTOR SHALL PRODUCE THE SAMPLES FOR MATERIALS AND ITEMS BEFORE PROCUREMENT OF THE SAME FOR APPROVAL OF THE ENGINEER-IN-CHARGE.
- 9.3 THE ITEMS WHICH ARE AVAILABLE IN POWERGRID “COMPENDIUM OF VENDORS”, SHALL BE SOURCED FROM POWERGRID APPROVED MANUFACTURERS. FOR ITEMS WHICH ARE NOT AVAILABLE IN THE “COMPENDIUM OF VENDORS”, THE DECISION OF PROJECT MANAGER/SITE-IN-CHARGE SHALL BE FINAL.
- 9.4 THERE ARE ITEMS IN BOQ/BPS WHEREIN SPECIFIC PRE-APPROVED MODEL/ BRAND OF THE PRODUCT INTENDED TO BE USED ARE MENTIONED. BIDDERS SHALL QUOTE FOR EQUIVALENT BRANDS/MODELS AS WELL, WHICH CONFORMS TO THE SPECIFICATION/S OF PRE-APPROVED BRAND/MAKE. HOWEVER, APPROVAL OF ENGINEER-IN-CHARGE SHALL BE TAKEN FOR THE PROPOSED BRAND/MAKE BY SUCCESSFUL BIDDER FOR A PARTICULAR ITEM BEFORE PROCUREMENT/SOURCING AT SITE FOR EXECUTION.