



**BHARAT HEAVY ELECTRICALS LIMITED
TRANSMISSION BUSINESS ENGINEERING MANAGEMENT, NEW DELHI.**

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TYPE OF DOC.	TECHNICAL SPECIFICATION	NAME	VG	SV	PLK
TITLE		SIGN	<i>VG</i>	<i>SV</i>	<i>PLK</i>
SPECIFICATION FOR PREPARATION OF DETAILED FABRICATION DRAWINGS (STRUCTURE ASSEMBLY) FOR GI STRUCTURES (LATTICE TYPE) FOR SUBSTATION/SWITCHYARD ON RATE CONTRACT BASIS FOR TWO YEAR		DATE	07-04-2022	07-04-2022	07.04.2022
		GROUP	TBEM	TBEM	TBEM
CUSTOMER	NTPC/PGCIL/STATE UTILITIES/BHEL CUSTOMER				
PROJECT	RATE CONTRACT BASIS FOR TWO YEAR				

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SCOPE, SPECIFIC TECHNICAL REQUIREMENT & QUANTITIES

1. INTRODUCTION

- 1.1.0 The purpose of this specification is to specify all details required by an Agency for preparation of detailed fabrication drawing (structure assembly), drawing of GI Structure (Lattice Type) for projects being executed by BHEL on turnkey basis for NTPC, POWERGRID, SEBs and other customers.
- 1.1.1 Quoting their most competitive rates for items indicated in Annexure-I of this specification for entering into a rate contract with BHEL for 2 years.

2. SCOPE

- 2.1.0 The work involves preparation of drawing for following type of GI Structures
- 2.1.1 Lattice type: required for gantry towers with or without peaks, Beams, equipment support structures.
- 2.1.2 The detailed scope of work shall be as following:
- 2.1.3 Preparation and submission of detailed fabrication (structure assembly) drawings, Structure hardware statement including their approval from BHEL/Customer, based on line sketches and other relevant inputs provided by BHEL from time to time.
- 2.1.4 Preparation and submission of Bill of material, weight of structure hardware based on above approved fabrication drawings including their approval from BHEL.
- 2.1.5 The detailed drawing shall include sufficient details so that no difficulty is faced by the fabricator during fabrication.

3. SPECIFIC TECHNICAL REQUIREMENTS

- 3.1.0 The specific technical requirement shall be as per input provided by BHEL from time to time after award of work.
- 3.1.1 The bidder is expected to interact closely with BHEL engineering group for any input/clarification. As the time schedule for working will be very tight, it will be in interest of the bidder to finalise details across the table.

4. BILL OF QUANTITY

- 4.1.0 The bill of quantity shall be as per Annexure-I. The quantities mentioned in this bill of quantity are indicative and individual quantity may vary upto any extent. The bidder is required to quote their most competitive rates for these items.

5. DOCUMENTATION SCHEDULE:

- 5.1.0 All the drawing shall be prepared in AutoCAD. All drawing shall be prepared on standard size (viz A0, A1, A2, A3 ad A4) and "Title Block" shall be as provided by BHEL. The standard size of drawing shall be as per direction of Engineer-In-Charge.
- 5.1.1 The number of copies of drawings/BOMs required to be submitted shall be as follows:
 - A. At each stage of approval – Soft Copy (AutoCAD & pdf format) via email

B. After final approval - Soft Copy (AutoCAD & pdf format) via email

6. TIME SCHEDULE

6.1.0 The following time schedule shall be permitted for submission of drawings.

Sl. No.	Description (Type of structure)	Submission time (from receipt of input)
Fabrication (structure assembly) Drawings		
1	Gantry towers (incl peak if reqd.)	5 days per tower
2	Beams	4 days per beam
3	Equipment Support Structure	2 days per eqpt support structure

6.2.0 Bill of Materials shall be submitted along with final submission of fabrication (structure assembly) drawings.

7. PAYMENT SCHEDULE

Sl. No.	Condition	Payment
1	On submission of document after final approval as per Document Schedule above	100%