

1.0.0 INTRODUCTION

- 1.1.0** The purpose of this specification is to specify all details required by a Design Agency for
- 1.1.1** Preparation of detailed fabrication (structure assembly) drawings of GI Structures (Lattice Type) for projects being executed by BHEL on turnkey basis for NTPC, PGCIL, SEBs and other Customers.
- 1.1.2** 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.

2.0.0 SCOPE

- 2.1.0** The work involves preparation of drawings for following type of GI Structures.
- 2.1.1** **Lattice Type:**
Required for gantry towers, beams, equipment support structures.
- 2.2.0** The detailed scope of work shall be as per following:
- 2.2.1** Preparation & submission of detailed fabrication (structure assembly) drawings including their approval from BHEL, based on line sketches and other relevant input provided by BHEL from time to time.
- 2.2.2** Preparation & submission of Bill of Materials based on above approved fabrication drawings including their approval from BHEL.
- 2.3.0** The detailed drawings shall include sufficient details so that no difficulty is faced by the fabricator during fabrication.

3.0.0 SPECIFIC TECHNICAL REQUIREMENTS

- 3.1.0** The specific technical requirements shall be as per input provided by BHEL from time to time after award of work.
- 3.2.0** The design agency 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 the interest of the design agency to finalize details across the table.
- 3.3.0** There may be certain cases when on account of revision or change of input certain design/ drawing may be required to be redone. For such cases, additional payment shall be made based on the quantum of rework done which shall be mutually discussed & decided. Suitable time extension shall also be granted on account of above.

4.0.0 BILL OF QUANTITY

- 4.1.0** The Bill of Quantity shall be as per Annexure I. The quantities mentioned in this are indicative only and individual quantity may vary up to any extent. The Design Agency is required to quote their most competitive rates for these items.

5.0.0 DOCUMENTATION SCHEDULE:

5.1.0 All drawings shall be prepared in Autocad. All drawings shall be prepared on standard sizes (viz. A0, A1, A2, A3 & A4) and 'Title Block' shall be as provided by BHEL.

5.2.0 The number of copies of drawings/BOMs required to be submitted shall be as follows:

A. *At each stage of approval.*

i) Fabrication (Structure Assembly) Drawings 02 sets.

B. *After Final approval.*

i) Fabrication (Structure Assembly) Drawings 04 sets.

ii) BOMs 02 sets

iii) CDs (containing i & ii) 02 sets

6.0.0 TIME SCHEDULE:

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

<u>S.No.</u>	<u>Drawings</u>	<u>Submission Time (From receipt of input)</u>
<u>Fabrication (Structure Assembly) drawings:</u>		
1	Gantry Towers (All kV)	2 days per tower
2	Beams (All kV)	1.5 days per beam
3	Equipment Support Structures (All kV)	1 day per equipment support structures

6.2.0 Resubmission of drawings, wherever required, shall be done within 2 days of receipt of comments.

6.3.0 BOMs shall be submitted along with final submission of fabrication (structure assembly) drawings.

7.0.0 PAYMENT SCHEDULE:

<u>S.No.</u>	<u>Condition</u>	<u>Payment</u>
<u>Item No.1 of Bill of Quantity (Annexure I)</u>		
(a)	On submission of documents after final approval (As per 5.2.0 B, i, ii & iii)	100% of quoted rate.