

**To be submitted in Company Letterhead duly signed & stamped by the
Authorized Signatory**

Ref.

Date:

TO
BHARAT HEAVY ELECTRICALS LIMITED,
Industrial Systems Group, Prof. CNR Rao Circle,
Malleshwaram, Bangalore – 560012

Sub:	Declaration for tender documents/ tender drawings
Job:	Fabrication & Supply of interconnecting chutes for Suratgarh SCTPS
Ref:	BHEL tender/ enquiry no.

Dear Sir,

With reference to our offer submitted to BHEL-ISG for fabrication and supply of interconnecting chutes for Suratgarh SCTPS against tender ref. _____, we hereby confirm the following:

- 1) We confirm that we have gone through the complete technical specifications of the tender have clear understanding of the scope of work indicated in the specifications.
- 2) We confirm that we have gone through all the reference drawings given in the tender and have understood in totality on the extent of job involved, type of materials used etc.
- 3) We confirm that the drawings given in the tender are for reference only and the job shall be executed by the successful bidder(s) based on the final drawings issued by BHEL after placement of order.
- 4) We understand that the Tonnage & BOQ indicated in the specifications is indicative and final BOQ shall be as per the final drawings issued for fabrication to the successful bidder after placement of order.
- 5) We confirm that we have understood the painting requirement in totality as per the specification requirements.
- 6) We confirm that we have gone through the complete tender documents including tender drawings and have obtained complete understanding of the requirement specified in the tender.

(Signature of the bidder)

Company Seal

PROJECT:

**2x660MW SURATGARH SCTPS
RRVUNL, RAJASTHAN**

Name of work: Fabrication &
Supply of Interconnecting
Chutes

Technical Enquiry Specification

Doc. No: IS-1-13-2000/239

**TECHNICAL ENQUIRY SPECIFICATION
for
Fabrication & Supply of Interconnecting Chutes
for**

**2x660MW SURATGARH SCTPS
RAJSTHAN RAJYA VIDYUT UTPADAN NIGAM L LIMITED**

Department	Prepared By	Checked By	Approved By
Mechanical Engineering	Sanjeeb Kumar Mohanta	Rajshekhar S. Pujari	Rajshekhar S. Pujari

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1.0 PROJECT INFORMATION

Coal handling plant for 2X660 MW Suratgarh Thermal Power Station (Unit - 7 & 8) of Rajasthan Rajya Vidyut Utpadan Nigam Limited (RRVUNL) proposed plant as described in the NIT specs. Salient features of the Project site are,

<u>1.1</u>	<u>GENERAL SITE CONDITIONS</u>	
1.	Owner / Purchaser	: Rajasthan Rajya Vidyut Utpadan Nigam Ltd. (RRVUNL)
2.	Engineer/consultant	: Tata Consulting Engineers Ltd (TCE) 73/1, St. Marks Road, Bangalore – 560 001
3.	Project Title	: 2 x 660 MW, Super-Critical TPS, Stage-V, Unit # 7 & 8 at Suratgarh, Rajasthan
4.	Project location	: 2 X 660 MW SSCTPS site, Prabat Nagar, Suratgarh, Sriganganagar district, Rajasthan.
5.	Elevation (above Sea level)	: 186 m (approximate)
6.	Temperatures : Monthly basis	: Mean of daily max. 32.8 deg.C (in the month of May) Mean of daily min. 17.6 deg.C (in the month of Jan)
7.	Temperatures : Annual basis	: Mean of daily max. 32.3 deg.C Mean of daily min. 19.6 deg.C
8.	Highest temperature recorded	: 50 deg.C
9.	Lowest temperature recorded	: (-) 2.8 deg.C
10.	Design temperature	: 50 deg. C
11.	Relative humidity	: Varies between 21% and 81%
12.	Annual average rain fall	: 312 mm
13.	Annual mean wind speed : Calculations for wind effect shall be in accordance with IS:875-1987(Part-3) taking into account the following	: 4 km/hr a) Basic wind speed = 47 m/sec b) Factor K1 = 1.07 c) Category of terrain = Category 2 d) K3 – as per IS 875

14.	Seismic data (As per IS: 1893 latest issue)	:	Zone II Designs & design coefficients will be based on IS 1893:2002
15.	Nearest railway station	:	Suratgarh JN
16.	Nearest airport	:	Jaipur

2.0 SCOPE OF WORK:-

The scope of this contract includes supply of fabricated chute as per the drawing attached including supply of material, fabrication at shop, painting as per specification mentioned elsewhere, transportation to site for Coal Handling Plant.

The works to be performed under this specification as mentioned below as per approved drawings and specification **on item rate basis**.

S. No		Quantity	Unit
1	Fabrication and supply of interconnecting chute with liners and other structural steel	360	MT

2.1 Tentative approximate quantity of major structural items are as mentioned below:-

Sr No	Material Description	Material Weight in MT
1.	SAILHARD / TISCAL LINER PLATE OF 12MM THICK	136
2.	MS PLATE OF 16MM THICK	69
3.	MS PLATE OF 12MM THICK	100
4.	Other Structural Steel	55

The weight of materials/ BOM mentioned under cl. No. 2.1 above is tentative/ indicative only. Actual quantity shall be as per the approved/ fabrication drawings. The final tonnage/ BOM shall be as per the final drawings to be issued by BHEL to the successful bidder after placement of order.

Other smaller quantity of different plates & channel shall be as per tender drawings. All other items required for the completion of the work as per the specification & drawing is in the scope of bidder. Bidder shall strictly follow the items to be used as per the drawing & specification. Any changes shall be on written approval from BHEL.

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The scope of works mentioned includes all works for the total completion in all respect as per the approved drawings. The rates quoted shall be inclusive of all the works mentioned above for the total completion of fabrication along with painting.

Interconnecting Chute fabrication drawings shall be issued by BHEL after the award of contract. Reference drawing is attached herewith for estimation purpose.

The work to be performed under this specification shall include all incidental items not mentioned or specified but reasonably implied or necessary for the completion of the work, all in strict accordance with the specifications.


Complete Quality check shall be done by contractor before offering inspection to RRVUNL/BHEL as per approved MQP enclosed in Annexure-I. Contractor has to show other tests also, which is not specifically mentioned under witness category in MQP on request of RRVUNL/BHEL at site


2.2 Surface preparation & Painting requirement-

Surface preparation before painting and painting shall be as per the following:-

Sr No	Equipment Description	Surface Preparation	Primer	Finish Coat	Total Dry Film Thickness (DFT) microns
01	Interconnecting Chute	Surface which is to painted shall be cleaned of dust and grease and the heavier layers of rust shall be removed by chipping prior to actual Surface preparation. The surface shall be cleaned to grade ST-2 as per SIS05-5900 or as per IS: 1477(part -I)	2 Coats of epoxy zinc phosphate primer . Dry film thickness of each coat shall be 25 microns	1 Coat, High built epoxy finish , 90 DFT	140DFT

3.0 BIDDERS RESPONSIBILITY: -

 ISG BANGALORE	<p align="center">PROJECT: 2x660MW SURATGARH SCTPS RRVUNL, RAJASTHAN</p>	
Name of work: Fabrication & Supply of Interconnecting Chutes	Technical Enquiry Specification	Doc. No: IS-1-13-2000/239
<p>3.1 Bidders shall prepare the proposal in accordance with the conditions mentioned in BHEL tender document / Bill of Quantities and drawing enclosed.</p> <p>3.2 Bidder's scope include supply of steel (plates, angle, channel, bolt, nut, lugs etc.) including liner, fabrication works including all labor, structural material including liners, machinery, land, fabrication, transportation to site etc. as per specification, drawings.</p> <p>3.3 Chute shall be supplied with proper stiffeners to avoid any type of deformity during transportation.</p> <p>3.4 Deviation shall not be accepted in any case with respect to the fabrication drawing, furnished to the bidder.</p> <p>3.5 Fixing of liner plate with mother plate shall be as per fabrication drawing.</p> <p>3.6 Painting shall be done by bidder before despatch of materials to site as per the Tender spec mentioned elsewhere.</p> <p>3.7 By submitting the bid for fabrication, bidders shall be deemed to have accepted the scope and nature of work, materials necessary for the completion of work, safety requirements, quality requirements. Bidders will also be deemed to have obtained all information to the risks and contingencies, responsibilities and other circumstances which might influence or affect his bid and to have taken into account all conditions and difficulties that may be encountered during the progress of work. The rates quoted in the bid shall be deemed adequate to complete the work according to the agreement and to cover the entire responsibility involved in the completion and maintenance of works considering all type of conditions. Bidder shall further be deemed to have included all labour, machinery and materials, freight charges for the materials, transportation of materials, labour license and all other charges necessary for completion of the work.</p> <p>3.8 Certified welder shall be employed for welding works at shop floor and same shall be furnished to BHEL on request.</p> <p>3.9 Minimum requirement of the equipment for structural works are listed above. These equipments shall be engaged without fail for the execution of the work. Price quoted includes providing these equipments.</p> <p>3.10 Quantities indicated in Bill of quantities are tentative, for other terms and</p>		
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<p>conditions refer details mentioned elsewhere.</p> <p>3.11 Quality assurance plan shall be followed as per the approved MQP issued by BHEL. The approved plan shall be strictly followed without fail. All the expenses in assuring quality shall be to the account of contractor and BHEL shall make no extra payment on account of this. This expenditure is deemed to have been included in the rates quoted.</p> <p>3.12 Safety norms as per BHEL HSE policy shall be strictly followed. (Copy of BHEL's HSE policy is enclosed with this tender)</p> <p>3.13 Method of work measurement for all purposes shall be as per IS (latest) codes where ever applicable.</p> <p>3.14 Bidder to note that list above is not exhaustive and any work required for completing the system and ensuring its satisfactory running shall also be in the scope of this package bidder.</p> <p>3.15 Bidder shall submit a signed copy of BHEL's tender enquiry specification along with all enclosures as technical offer along with the bid without any deviations & with complete drive schedule including ratings of all equipments without which the bidders offer shall not be considered.</p> <p>4.0 Enclosures: - The below mentioned documents shall form integral part of this specification. i) Annexure- 001: Reference drawings</p>			
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