

# **TENDER SPECIFICATION**

**BHEL: PSSR: SCT: 1484**

**FOR**

Handling at Site Stores / Storage yard, Transportation to Site of Work, Erection, Testing and Commissioning including Supply & Application of Final Painting for Package-B (consists of Boiler Structures, Pressure Parts, Non Pressure Parts, Rotating Machines of unit-2 and Application of Refractory & Insulation and connected works for Boiler, ESP, Power cycle Piping etc of Unit- 1&2) of 2 x 210 MW sets

at

**Surana Thermal Power Project,  
Raichur Dist, Karnataka**

**VOLUME-II**

**PRICE BID**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

690, Anna Salai, Nandanam, Chennai – 600 035.

**BHARAT HEAVY ELECTRICALS LIMITED**  
**(A Government of India Undertaking)**  
**Power Sector, Southern Region**  
**690, Anna Salai, Nandanam, Chennai – 35**

**Tender Specification No. BHEL: PSSR: SCT: 1484**

for

Handling at Site Stores / Storage yard, Transportation to Site of Work, Erection, Testing and Commissioning including Supply & Application of Final Painting for **Package-B** (consists of Boiler Structures, Pressure Parts, Non Pressure Parts, Rotating Machines of unit-2 and Application of Refractory & Insulation and connected works for Boiler, ESP, Power cycle Piping etc of **Unit- 1&2**) of 2 x 210 MW sets at Surana TPS, Raichur District, Karnataka.

One set of Tender documents consisting of Volume-I and Volume II

**BOOK SLNO** \_\_\_\_\_

Issued to

M/s

Refer NIT for Last date of submission

Please note this tender document is not transferable

For and on behalf of  
**BHARAT HEAVY ELECTRICALS LIMITED**

**ADDL GENERAL MANAGER / CONTRACTS**

Place: Chennai -35

Date:

**SURANA TPS 2 X 210 MW - PACKAGE-B****RATE SCHEDULE - BOILER & ROTATING MACHINES& INSULATION**

SL NO	DESCRIPTION OF WORK	APPROX. WT IN MT FOR PACKAGE -B	UNIT RATE (Rs)		TOTAL AMOUNT (Rs)	
			In figures	in words	In figures	in words
1	Erection,testing & commissioning and completion of trial operations of main boiler and its auxiliaries of UNIT-2 of 2 x 210 MW Surana TPS as per detailed description and nature of work enumerated in the tender specification including supply of consumables, tools & tackles, equipments, all handling and transportation from BHEL/Customer's stores and other incidental works during pre assembly , erection , testing and commissioning work, supply and application of touch up, preservation and final painting as detailed in the tender specification. This shall include all types of handling and transportation of materials from the site store sheds/storage yard to place of erection including any extra work of modification / rectification that may arise during erection, testing and commissioning works which is incidental to normal erection works.					
1.1	Structures	<b>3092.0</b>				
1.2	Pressure Parts	<b>2330.0</b>				
1.3	Non-Pressure Parts	<b>1678.0</b>				

signature of bidder

SL NO	DESCRIPTION OF WORK	APPROX. WT IN MT FOR PACKAGE -B	UNIT RATE (Rs)		TOTAL AMOUNT (Rs)	
			In figures	in words	In figures	in words
2	Erection,testing & commissioning (including acoustic insulation) and completion of trial operations of the rotating machines like fans,mills and other auxiliaries including motors for ONE UNIT OF 2 x 210 MW Surana TPS as per detailed description and nature of work enumerated in the tender specification including supply of consumables,tools and tackles, equipments, all handling and transportation from BHEL/customer's stores and other incidental works during pre assembly , erection , testing and commissioning work, supply and application of touch up, preservation and final painting as detailed in the tender specification. This shall include all types of handling and transportation of materials from the site store sheds/ storage yard to place of erection including any extra work of modification / rectification that may arise during erection,testing and commissioning works which is incidental to normal erection works.					
2.1	Rotating Machines (Fans, Mills & Aux.)	1090.0				
2.2	Handling equipments of Rotating Machines	10.0				
3	Application of all insulation & refractory materials like Cement, mortar standard and shaped bricks refractory, pourable insulation & other similar items as per BHEL Engineers instructions and drawings for Boiler and connected auxiliaries,& equipments, TG Auxiliaries , ESP , Ducting and piping. Rates quoted shall include all incidental works like chipping, shaping and arranging shuttering if any to suit site conditions & leading these materials from storage yard to place of erection.					
3.1	Fire Bricks	1.00				
3.2	Castable Refractory	130.00				
3.3	Pourable Insulation	260.00				
4	Application of Mineral wool insulation / calcium silicate including acoustic insulation of fans, Insulation in the specific shapes like mattresses of single or multilayer ( with unbonded and bonded wool mattresses) as per drawings, BHEL's specifications & BHEL Engineers instructions for Boiler and their connected auxiliaries, ESP (excluding one layer of insulation mattress on top of ESP inner roof covered in ESP package ) ,piping. These rates shall include preparation of mattresses with specified density and proper shape to suit ducts, vessels, pipes, valves and other similar works. These shall also include leading these materials from storage yard to place of work.	841.40				signature of bidder

SL NO	DESCRIPTION OF WORK	APPROX. WT IN MT FOR PACKAGE -B	UNIT RATE (Rs)		TOTAL AMOUNT (Rs)	
			In figures	in words	In figures	in words
5	Linking and fixing iron components like hooks, casing supports , casing strips, omega strips retainers, sheets, channels, including fabrication and erection of structural material enclosures for pressure parts skin casing, pent house ,rear arch ,drum and other miscellaneous items for insulation works including fabrication, erection and installation of these components, gas & Arc welding,gas cutting etc., required for proper erection of these materials, painting as required for the above works as per drawings and specifications and instructions of BHEL Engineer. The rate quoted shall also include loading these materials, leading from BHEL stores to place of work,gas cutting,welding,bolting,threading,jointing erection,alignment, of structural parts,coming as support for insulation,refractory work etc., lift all temporary supports,welding and parting ( including paint supply) as per BHEL Specification.	167.54				
6	Application of Aluminum sheeting of varying thickness including plain and corrugated sheets and fabrication and installation of connected components used for supporting and reinforcing wool insulation including arc and gas welding, fabrication and installation of these components, painting inner side of the sheets with two coats of anti corrosive paint , application of sealing compound, as per BHEL specification , drawings and site engineers instructions. The rate quoted shall also include fabrication of boxes shaped coverings to suit site conditions and leading these materials from storage yard to place of work.	300.06				
<b>TOTAL</b>						

Note :

- 1 The quantity indicated in rate schedule are approximate and are liable for variation and alteration at the discretion of BHEL.The quoted unit rates shall be applicable for any additional product groups of manufacturing unit,if included at a later date.The work executed shall be measured and priced at unit rate quoted by the contractor and accepted by BHEL.
- 2 Welding includes welding on pressure parts and non pressure parts of certain places. The accepted rates shall include this also.
- 3 Tenderers are required to quoted their rates, only in the price bid (Vol II) provided by BHEL. Quoting of rates in any other form / formats will not be entertained.

signature of bidder