

# **TENDER SPECIFICATION**

**BHEL: PSSR: SCT: 1461**

**FOR**

Handling at Site Stores / Storage yard, Transportation to Site of Work, Erection, Testing and Commissioning and completion of trial operation of Boiler & Aux, Rotating Equipments including supply and application of final painting for units -1&2 of 2X210MW sets

at

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

**CORRIGENDUM-1**



**BHARAT HEAVY ELECTRICALS LIMITED**

(A Government of India Undertaking)

Power Sector – Southern Region

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

**BHEL PSSR SCT 1461**

**DATE: 19.05.2011**

**CORRIGENDUM-1 TO TENDER NOTICE SCT 1461**

**TENDER SPECIFICATION NO BHEL: PSSR: SCT: 1461**

**Sub:** Erection, Testing and Commissioning and completion of trial operation of Boiler & Aux, Rotating Equipments including supply and application of final painting for Unit- 1&2 of 2 x 210 MW sets at Surana TPS, Raichur District, Karnataka.

**DUE DATE EXTENDED AS BELOW:-**

TENDER SALE CLOSING ON	: 09.06.2011
DUE DATE & TIME FOR TENDER SUBMISSION	: 10.06.2011, 15.00 HRS.
DUE DATE & TIME FOR OPENING OF TECHNICAL BIDS	: 10.06.2011, 15.30 HRS.

**Clarifications for the tender specification are furnished below for information  
Please visit [www.bhel.com](http://www.bhel.com) for corrigendum for this NIT 9848.**

**ALL OTHER CONDITIONS REMAIN UNCHANGED.**

AGM / CONTRACTS

**CORRIGENDUM-1 TO SCT 1461**

**One of the Bidders sought clarification on the subject tender and BHEL's clarification is furnished below for your information.**

SI No	Reference:	Existing/Query	Revised/added
1	<b><u>NIT/ Point 1.0</u></b> <b><u>Sl.No. xi</u></b> <b><u>Integrity pact &amp; Details.....</u></b> on column 4 Volume 1A (TCC) NIT / Pre-Qualifying Criteria Sl.No.A	<ul style="list-style-type: none"> <li>• Bidders shall enter into an Integrity Pack (IP) with BHEL as per format given at Volume 1D of this tender. The bidders .....</li> <li>• Whereas it is mentioned in NIT that IP "Applicable", but in PQ Criteria the IP "Not Applicable". Please clarify the above two difference status.</li> <li>• Submission of Integrity Pact duly signed (if applicable)</li> </ul>	<ul style="list-style-type: none"> <li>• IP "Not Applicable" to this tender</li> </ul>
2	NIT Annexure -2 ,checklist, cl-9, column 4 volume 1A(TCC)	Integrity pact- Applicable	Corrected as "Not Applicable"
3	TCC VOL 1A, Part-II, Annexure-1, Weight Schedule ,Page 116, Item C. Non-pressure parts	Weight schedule - Boiler-PGMA wise C.Non-Pressure parts PGMA wise Weight Schedule of Boiler does not show any quantity of Ducts and Pulverised Coal Piping, although these items are mentioned in different sections of TCC Please provide the weights of these items or confirm if these are excluded from scope of work. The detailed break-up in PGMA wise is not available for total qty of 1678 tons. Please provide.	All applicable PGMA's in Non Pressure Parts are enclosed
4	TCC VOL 1A, PART-I, Clause 2.6.56	This Section provides the procedures for welding of Pipes and tubes of T91 materials, Where as Erection Welding Schedules provided in part- II does not include any T91 material. Please confirm if P91 materials are included in the Boiler. If included please indicate the quantity.	P91/T91 material welding at site is not envisaged for this package.

**SURANA TPS 2 X 210 MW - BTG PACKAGE**

**WEIGHT SCHEDULE -BOILER-PGMA WISE**

<b>C. NON - PRESSURE PARTS</b>					
<b>PGMA</b>	<b>DESCRIPTION</b>	<b>PGMA WT IN MT</b>	<b>PG WISE WT IN MT</b>	<b>RATE SCH ID</b>	<b>CAT</b>
20051	LONG RETRACT SB M11E	23.38		1.3	NPP-BLR
20054	WALL BOX NPR LRSB MI	0.56		1.3	NPP-BLR
20201	WALL DESLAGGER RW5E	8.92		1.3	NPP-BLR
20204	WALL BOX NPR-RW5E	1.11		1.3	NPP-BLR
20511	DA HEAD VALVE ASSY	0.11		1.3	NPP-BLR
20794	WALL BOX NPR FOR TEMP PROBE	0.06		1.3	NPP-BLR
20972	TEMP PROBE DUPLEX POWER TRACK	1.55		1.3	NPP-BLR
20998	SPL TOOLS FOR SB	0.01		1.3	NPP-BLR
	<b>PG 20 TOTAL</b>		<b>35.7</b>	1.3	NPP-BLR
28220	DOORS	4.40		1.3	NPP-BLR
28700	BPS FASTENERS	0.60		1.3	NPP-BLR
	<b>PG 28 TOTAL</b>		<b>5.0</b>	1.3	NPP-BLR
30103	SEAL PLATE ASSY	2.20		1.3	NPP-BLR
30105	FUR BOTTOM ENCL FRAMING	4.70		1.3	NPP-BLR
30211	FUR REAR ARCH ENCL FRAMING	1.70		1.3	NPP-BLR
30212	FUR EXTD BOT ENCL FRAMING	7.80		1.3	NPP-BLR

30215	MAIN BOILER ENCL	3.40		1.3	NPP-BLR
30219	VERT ROOF ENCL FRAMING	40.00		1.3	NPP-BLR
30220	DECK SPRT AND SEALS	19.70		1.3	NPP-BLR
	PG 30 TOTAL		79.5	1.3	NPP-BLR
41350	AIR COOLED OIL GUN ASSY	0.81		1.3	NPP-BLR
41390	OIL GUN VICE ASSY&RACK	0.83		1.3	NPP-BLR
41500	HEA IGNITOR	0.44		1.3	NPP-BLR
	PG 41 TOTAL		2.1	1.3	NPP-BLR
43004	ASSY COMP SCNR&GUN AIR SYSTEM	1.82		1.3	NPP-BLR
43005	ASSY COMP MILL AIR SYSTEM	3.05		1.3	NPP-BLR
43104	M/C COMP SCNR&GUN AIR SYSTEM	9.00		1.3	NPP-BLR
43105	M/C MILL SEAL AIR SYSTEM	15.60		1.3	NPP-BLR
43200	SUBDEL,IGNITOR,SCNR AIR SYSTEM	2.70		1.3	NPP-BLR
	PG 43 TOTAL		32.2	1.3	NPP-BLR
47221	FUEL PIPE SUPRORTS WITH 22 IN PIPE	17.90		1.3	NPP-BLR
47223	PIPE COUPLING,ORIFICE ETC	23.74		1.3	NPP-BLR
47229	ST PIPE& SHOP BENDS	257.35		1.3	NPP-BLR
	PG 47 TOTAL		299.0	1.3	NPP-BLR
48012	SQ.DUCT B/W-FD FAN TO A.H	46.93		1.3	NPP-BLR
48014	EXP.PIECES B/W-FD FAN TO A.H	3.97		1.3	NPP-BLR

48015	SUPPORT B/W -FDFAN TO A.H	6.38		1.3	NPP-BLR
48019	AIRDUCT SUP FDN MATL	1.79		1.3	NPP-BLR
48112	SQ.DUCT-PA FAN- TO PRI-AH PRISID	28.05		1.3	NPP-BLR
48114	EXP.PIECES-PAFAN TO -PRI-AH	0.77		1.3	NPP-BLR
48115	SUPPORT-PAFAN TO -PRI-AH	2.89		1.3	NPP-BLR
48141	SEAL AIR HAG&ID FAN OUT GATE	3.44		1.3	NPP-BLR
48142	SQ.DUCT-COLD AIRBUS	33.23		1.3	NPP-BLR
48144	EXP.PIECES-COLD AIRBUS	1.88		1.3	NPP-BLR
48145	SUPPORT-COLDAIR BUS	5.29		1.3	NPP-BLR
48200	INSTRUMENT TAPPINGS ON DUCT	2.95		1.3	NPP-BLR
48202	SQDUCT AH TO WIND BOX	65.59		1.3	NPP-BLR
48204	EXPPCS AH TO WIND BOX	10.44		1.3	NPP-BLR
48205	SUPORT AH TO WIND BOX	3.57		1.3	NPP-BLR
48207	FLOWMTR FOR SEC AIRFLOW	7.19		1.3	NPP-BLR
48212	SQDUCT WIND BOX CONNECTING	12.95		1.3	NPP-BLR
48214	EXP PIECES WIND BOX CONNECTING DUCT	2.81		1.3	NPP-BLR
48222	SQDUCT AH TO -HOTAIRBUS	31.32		1.3	NPP-BLR
48224	EXP PIECES AH TO -HOTAIRBUS	2.78		1.3	NPP-BLR
48225	SUPORT AH- TO HOTAIRBUS	3.36		1.3	NPP-BLR
48382	SQ DUCT ECONOMISER TO - AIRHEATR	58.92		1.3	NPP-BLR

48384	EXPN PIECES ECONOMISER TO - AIRHEATR	9.96		1.3	NPP-BLR
48385	SUPPORT ECONOMISER - AIRHEATR	8.67		1.3	NPP-BLR
48432	SQDUCT AH-BLR OUTLET GAS	32.68		1.3	NPP-BLR
48434	EXP PIECES AH-BLROUTLET GAS	3.23		1.3	NPP-BLR
48435	SUPORT AH-BLROUTLET GAS	3.74		1.3	NPP-BLR
48462	SQDUCT BLROUT LET -ESP	139.81		1.3	NPP-BLR
48464	EXP PIECES BLR OUT LET-ESP	10.29		1.3	NPP-BLR
48465	SUPORT BLR OUTFL-ESP	13.03		1.3	NPP-BLR
48662	SQ.DUCT HOTBUS TO MILLS	19.45		1.3	NPP-BLR
48664	EXPN PIECES HOTBUS TO - MILLS	5.15		1.3	NPP-BLR
48665	SUPPORTS FOR HOT PA TO MILLS	3.28		1.3	NPP-BLR
48667	VENTURI.PRI AIR FLOW	6.61		1.3	NPP-BLR
48700	BULKED BPS COMPONENT	1.34		1.3	NPP-BLR
48993	ERECTON-MATERIALS	9.29		1.3	NPP-BLR
	<b>PG 48 TOTAL</b>		<b>603.0</b>	1.3	NPP-BLR
50510	STEAM COIL A P H	6.00		1.3	NPP-BLR
	<b>PG 50 TOTAL</b>		<b>6.0</b>	1.3	NPP-BLR
52000	SPECIAL TOOLS/CONTRA	0.44		1.3	NPP-BLR
52010	LARG AH-ROTOR ASSY	320.05		1.3	NPP-BLR
52011	LARG AH-ROTOR POST	15.56		1.3	NPP-BLR

52012	LARG AH-ROTORPINRACK	3.66		1.3	NPP-BLR
52013	LARG AH-ROTORSEALS	4.30		1.3	NPP-BLR
52030	LARG AH-ROTORHOUSING	42.21		1.3	NPP-BLR
52041	HOT END CONN PLATE	37.14		1.3	NPP-BLR
52042	COLD END CONN PLATE	54.90		1.3	NPP-BLR
52054	LARG AH-AXIAL SEAL	0.42		1.3	NPP-BLR
52055	LARG AH-BY PASS SEAL	0.88		1.3	NPP-BLR
52100	LARGE AH ROTOR DRIVE	3.70		1.3	NPP-BLR
52211	LARG AH-AIRSEAL PIPE	0.70		1.3	NPP-BLR
52220	LARG AH-GENS DETAILS	10.50		1.3	NPP-BLR
52261	LARG AH-GUIDE BEARNG	2.92		1.3	NPP-BLR
52262	LARG AH-SUPRT BEARNG	4.26		1.3	NPP-BLR
52271	OIL PIPING GUIDE BRG	0.50		1.3	NPP-BLR
52272	OIL PIPING SUPRT BRG	0.54		1.3	NPP-BLR
52274	LUB OIL CIRCULATION UN	1.11		1.3	NPP-BLR
52301	WASH MANIFLD GAS INL	0.46		1.3	NPP-BLR
52302	WASH MANIFLD GAS OUT	0.46		1.3	NPP-BLR
52326	CLEANG EQPT GAS OUT	0.33		1.3	NPP-BLR
52329	CLE EQPT DRIVE UNIT	1.57		1.3	NPP-BLR
52600	LARGE AH E,C&I COMPONE	0.15		1.3	NPP-BLR

52988	LARG AH COMMISSIONING	0.26		1.3	NPP-BLR
	<b>PG 52 TOTAL</b>		<b>507.0</b>	1.3	NPP-BLR
57010	GATE FAN OUTLET	7.40		1.3	NPP-BLR
57013	DAMPERS BET FD FAN & A	4.80		1.3	NPP-BLR
57033	SA SCAPH INLET DAMPER	3.20		1.3	NPP-BLR
57063	SA SCAPH OUTLET DAMPER	4.80		1.3	NPP-BLR
57110	GUILLOTENE GATE PA FAN	9.60		1.3	NPP-BLR
57113	DAMPERS BETWEEN PAFAN	4.20		1.3	NPP-BLR
57143	DAMPER COLD AIR BUS(TE	1.75		1.3	NPP-BLR
57160	COLD AIRGATE, AIRBUS T	6.60		1.3	NPP-BLR
57203	DAMP APH TO WINDBOX DU	10.50		1.3	NPP-BLR
57209	MTG BKT FOR CL DAMPER	3.30		1.3	NPP-BLR
57223	DAMP APH PRIMARY SIDE	6.00		1.3	NPP-BLR
57270	GUILLOTENE GATE DUCT T	17.00		1.3	NPP-BLR
57273	DAMPER BOILER OUTLET	5.50		1.3	NPP-BLR
57383	FLUE GAS SAH INLET DAM	10.70		1.3	NPP-BLR
57433	DAMPER APH BOILER OUTL	10.70		1.3	NPP-BLR
	<b>PG 57 TOTAL</b>		<b>106.1</b>	1.3	NPP-BLR
99400	SCAPH,RAPH HANDLG EQUIPMENT	1.00		1.3	NPP-BLR
99512	FURN CRADL-2WALC	1.50		1.3	NPP-BLR

	<b>PG 99 TOTAL</b>		<b>2.5</b>	<b>1.3</b>	<b>NPP-BLR</b>
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<b>NON PRESSURE PARTS - TOTAL WT (MT)</b>	<b>1678.02</b>	<b>1678.0</b>
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