



## Bharat Heavy Electricals Limited

(A Government of India Undertaking)

Power Sector – Eastern Region

Plot No. 9/1, Block-DJ, Salt Lake City,

Kolkata – 700 091 (INDIA)

Phone no. 033 - 2321 1691

Fax : 033 - 2321 1960

Web : [www.jantermanter.com](http://www.jantermanter.com) / [www.bhel.com](http://www.bhel.com)

**TCN - 01**

Ref: PSER:SCT:MRW-B1052:TCN-01

Date: 25-11-2009

Sub	Tender change notice (TCN) 01.	
Job	Providing all services stipulated in the specification, for handling at site/ storage, transportation to work area, Erection, Testing and Commissioning of Boiler & Aux, consisting of Structures, Pressure Parts, ESP, Rotating Machines Ducting, piping like Critical Piping, Misc piping, Boiler Integral Piping, Insulation & final Painting etc. for unit # 1&2 of 2X 500MW Marwa Project, Chattisgarh.	
Ref	1.0	Tender no PSER:SCT:MRW- B1052:09.
	2.0	BHEL's NIT vide reference no PSER:SCT:MRW- B1052:09., dated 18-11-09.

With reference to above, following points relevant to tender, may please be noted & complied with while submitting offer.

SL.NO.	CLAUSE NO.	Existing provision	BHEL's clarification
01	VOL.ID – SCC CLAUSE NO. 37.5.6	Unloading from railway wagon – 50%	SHALL BE READ AS :  Unloading from TRAILER – 50%
02	VOL.ID – SCC CLAUSE NO. 37.5.6	Stages Of Progressive Pro-Rata Payments of Boiler drum unloading (Sl. No. 9.0 of Price schedule , Vol-III A, )	Stages Of Progressive Pro-Rata Payments of Boiler drum unloading (Sl. No. 10.0 of Price schedule , Vol-III A, )
	VOL.ID – SCC CLAUSE NO. 3.0 ; SUB-CLAUSE NO: 2.1	Receipt of boiler drum, unloading from the trailer/ wagon and dragging inside boiler cavity and positioning on ground before erection. Similarly the burner blocks, mill bases, furnace bottom ring headers are to be also unloaded from trailers / railway siding by the contractor .....	SHALL BE READ AS :  Receipt of boiler drum, unloading from the trailer and dragging inside boiler cavity and positioning on ground before erection. Similarly the burner blocks, mill bases, furnace bottom ring headers are to be also unloaded from trailers by the contractor .....
03	VOL.II–TECH SPEC CLAUSE NO. 1.0 ; SUB-CLAUSE NO: 1.2.1	Receipt of boiler drum, unloading from the trailer/ wagon and dragging inside boiler cavity .....before erection. Similarly the burner blocks, mill bases, furnace bottom ring headers are to be also unloaded from trailers/railway	SHALL BE READ AS : Receipt of boiler drum, unloading from the trailer and dragging inside boiler cavity ..... before erection. Similarly the burner blocks, mill bases, furnace bottom ring headers are also to be unloaded from trailers by the

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		siding by the contractor .....	contractor .....
04	VOL.II-TECH SPEC CLAUSE NO. 2.0 ; SUB-CLAUSE NO: 2.2.1(H)	Boiler drum <b>may</b> come by road <b>/wagon</b> to Site. Trailer/ <b>wagon</b> may be placed inside the power plant as close as possible to work site. All other arrangements and resources to unload, drag (if required) and erect the same are in contractor's scope. <b>Contractor shall be required to arrange heavy duty trailer short duration for transporting boiler drum from the railway unloading point to the nearest point of the unit if the drum is received by rail.</b> The rails and sleepers for shifting & dragging .....	SHALL BE READ AS : Boiler drum will come by road to Site. Trailer may be placed inside the power plant as close as possible to work site. All other arrangements and resources to unload, drag (if required) and erect the same are in contractor's scope. The rails and sleepers for shifting & dragging .....

05. Revised Volume-IIIA (Price Schedule)-(Rev-01), superseding VOL-IIIA (Rev-0) issued earlier along with NIT. (File-1)

- **BIDDERS ARE REQUESTED TO NOTE THAT THE REVISED RATE/PRICE SCHEDULE (REV-01) SUPERSEDES ORIGINAL RATE/PRICE SCHEDULE. BIDDERS SHALL SUBMIT THEIR OFFER ONLY AS PER REVISED RATE/PRICE SCHEDULE (REV-01). OFFER FROM BIDDER IN SUPERSEDED RATE/PRICE SCHEDULE WILL NOT BE CONSIDERED.**
- **BIDDERS ARE REQUIRED TO SUBMIT A DECLARATION IN TECHNO-COMMERCIAL OFFER THAT THEY HAVE SUBMITTED THEIR PRICE BID IN SEALED ENVELOPE AS PER REVISED RATE/PRICE SCHEDULE (REV.-01) ONLY.**

**BIDDERS ARE REQUESTED TO SUBMIT OFFER BY THE DUE DATE OF SUBMISSION OF OFFER i.e. 09-12-09 (15=00 Hrs).**

ALL OTHER TERMS & CONDITIONS OF THE TENDER SHALL REMAIN UNCHANGED

DGM (SCT)

**Volume-III A, REV-01  
PRICE SCHEDULE**

**SCOPE OF WORK : RECEIPT FROM STORES, TRANSPORTATION TO WORK SITE, STORAGE/PRESERVATION AS REQUIRED, ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF UNIT # 1 BOILER & AUX, ESP, ROTATING MACHINES, DUCTING, CRITICAL PIPING, MISC. PIPING, BOILER INTEGRAL PIPING, INSULATION, FINAL PAINTING INCLUDING LIFTING OF BOILER BDRUM BY STRAND JACK METHOD, ETC. FOR 2x500 MW MARWA PROJECT, CHATTISGARH**

**TENDER NO - PSER:SCT:PSER:SCT:MRW-B1052:09**

**PREAMBLE**

01	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender as per NIT together with subsequent changes/ modifications etc thereto as applicable as on date of submission of price offer.
02	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions.
03	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
04	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc equipment, strengthening of roads/culverts/bridges etc including arranging all clearances etc required for carrying out different activities & tests, materials, levies, taxes, transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule.
05	The quantities of the various items mentioned in this schedule of items are approximate, based on the preliminary information and may vary to any extent or be deleted altogether. The quoted rates shall remain firm and valid for +/- 20% variation in total weight as indicated in relevant Annexure of weight schedule throughout the period of execution including extension, for reasons what-so-ever.
06	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing and leveling etc including fixing of grid pillars, benchmarks etc required for commencement of site activities. No separate payment will be made towards the same.
07	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English
08	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
09	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
10	For each rate schedule, the quoted overall price only should be considered for bid evaluation purpose & groupwise rates are being obtained only for facilitating pro-rata billing.
11	Summation of quoted prices all the price/rate schedules shall be considered for evaluation.
12	All works item wise shall be measured upon completion and paid for at the rates quoted & accepted.

**VOLUME-IIIA (REV 01)**

**PRICE SCHEDULE:**

**SUMMARY OF PRICES FOR THIS PACKAGE .**

**SCOPE OF WORK :**

RECEIPT FROM STORES, TRANSPORTATION TO WORK SITE, STORAGE/PRESERVATION AS REQUIRED, ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF UNIT # 1 BOILER & AUX, ESP, ROTATING MACHINES, DUCTING, CRITICAL PIPING, MISC. PIPING, BOILER INTEGRAL PIPING, INSULATION, FINAL PAINTING INCLUDING LIFTING OF BOILER DRUM BY STRAND JACK METHOD, ETC. FOR 2x500 MW MARWA PROJECT, CHATTISGARH

**TENDER NO-PSER:SCT:KBA:-B-1051:09**

SL. NO.	PACKAGE	TOTAL PRICE (IN RS.)
1.0	TOTAL PRICE AS PER RATE SCHEDULE OF THIS PACKAGE (Erection, testing, commissioning, PG test, handing over etc of Boiler & aux, ESP, Critical /Misc. Piping ,insulation,painting etc. )	
<b>2.0</b>	<b>GRAND TOTAL OF PRICE AT SL. NO. 1 (IN RUPEES)</b>	

**Notes:**

1	Bidder to note that total price indicated above at Sl. No. 2.0, shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions.
2	In case, price indicated above does not match with the total of item wise break-up given at Price Schedule . The highest price so calculated shall be considered for evaluation but in case of order, the same shall be placed at the lowest price.

VOLUME-III A , REV-01  
PRICE/RATE SCHEDULE- UNIT-1 & 2

RECEIPT FROM STORES, TRANSPORTATION TO WORK SITE, STORAGE/PRESERVATION AS REQUIRED, ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF UNIT # 1 & 2 OF BOILER & AUX, ESP, ROTATING MACHINES, DUCTING, CRITICAL PIPING, MISC. PIPING, BOILER INTEGRAL PIPING, INSULATION, FINAL PAINTING INCLUDING LIFTING OF BOILER BDRUM BY STRAND JACK METHOD, ETC. FOR 2x500 MW MARWA PROJECT, CHATTISGARH.

**TENDER NO :- PSER:SCT:MRW -B1052:09**

**Bidders are requested to submit their price only as sought under price schedule below :-**

SL.NO	DESCRIPTION OF ITEM	APPROXIMATE WEIGHT FOR TWO UNITS	UNIT	UNIT RATE ( In Rs) b	TOTAL AMOUNT (IN Rs) ( In figures & In Words) a x b
1.0	Group-I(Pressue Part)	11022	MT		
2.0	Group-II(Intergral and Trim piping)	1054	MT		
3.0	Group-III(Non-Pressure Part)	30506	MT		
4.0	Group-IV( Rotating machines)	6814	MT		
5.0	Group-V(ESP)	17340	MT		
6.0	Group -VI (Piping etc.)				
6.1	P-91 PIPINGS	247	MT		
6.2	OTHER ALLOY STEEL PIPINGS	380	MT		
6.3	CARBON STEEL PIPINGS	1120	MT		
6.4	STRUCTURES/HANGERS & SUPPORTS	620	MT		
6.5	VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	440	MT		
6.6	TEMPORARY PIPING SYSTEM (INCLUDING VALVES & FITTINGS) FOR STEAM BLOWING, CHEMICAL CLEANING ETC	260	MT		
6.7	Fabrication & erection of boiler structure, misc approach/ operating platform etc (material shall be supplied by BHEL free of cost).	600	MT		
7.0	INSULATION	5600	MT		
8.0	APPLICATION OF PAINT(APPROX AREA AS PER ANNEXURE-VII) PER UNIT	138000	SQ.MT/UNIT		
9.0	Lump sum price for providing assistance for conducting PG test.	2	MT		
10.0	Unloading of Boiler drum from trailer and transporting/ dragging it to the boiler area for erection	2	NO		
	<b>GRAND TOTAL</b>				
<b>NOTE</b>					
1.0	FOR DETAILS OF PGs COVERED UNDER DIFFERENT GROUPS, PLEASE REFER TO APPENDIX-I OF VOL-1D (A) OF TENDER.				
2.0	BESIDES ABOVE PRODUCT GROUP, THERE IS LIKELIHOOD OF ADDITION OF NEW PG UNDER THE ABOVE GROUP HEADS DUE TO RELEASE OF SOME ITEMS INTEGRAL TO BOILER. THE QUOTED RATES SHALL BE APPLICABLE FOR SUCH PGs ALSO WITHIN THE STIPULATED VARIATION LIMIT.				
3.0	Bidder to note that evaluation of PACKAGE will be done on the Total quoted amount indicated above.				
4.0	Any item as per scope of work if not included in the price quoted above and shown separately will not be taken into cognizance and the offer shall be liable for rejection.				