



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:ABJ-B1183:TCN-01

Date: 06/05/2011

Sub	Tender change notice (TCN) 01	
Job	Package A:- Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler , Rotating Machines and Duct, ESP , Critical Piping , Misc. Piping , Boiler Integral piping , Insulation & Final Painting etc. of Unit # 1 at 2x520 MW HNPCL/VIZAG Thermal Power Project . Package B:- Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler , Rotating Machines and Duct, ESP , Critical Piping , Misc. Piping , Boiler Integral piping , Insulation & Final Painting etc. of Unit # 2 at 2x520 MW HNPCL/VIZAG Thermal Power Project .	
Ref	1.0	Tender no PSER:SCT:VIZ-B1192:11
	2.0	BHEL's NIT, vide ref no Ref: PSER:SCT:VIZ-B1192 Dated 25/04/2011
	3.0	Other references (if any)

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

- 1.0 Schedule of changes as per Annexure-A to TCN-01.
- 3.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached Format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

- 1.0 Schedule of Changes Annexure-A to TCN-01
- 2.0 Revised 'No deviation certificate' format.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

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ANNEXURE-A TO TCN-01
TENDER NO. PSER:SCT:VIZ-B1192:11

Sl. No.	CLARIFICATIONS
1	TEMPORARY PIPING
1.1	All temporary piping sys including valves and fittings required for chemical cleaning and Steam blowing operation of the Unit including pre-boiler system have to be carried out by the vendor under the scope of this specification. While the erected tonnage of the temporary piping will be paid as per Rate applicable for Non-Pressure Parts, all other allied works incidental to conductance of chemical cleaning & Steam blowing operation need to be carried out by the vendor within his quoted rate.
1.2	The contractor has to do contingency work like laying of pipe, valves, pipe fittings and other items, in case they are received late to achieve milestone. The contractor on a later date shall re-install the actual items on a later date as per arrival of the materials at BHEL/Site. For this purpose, the old items are to be removed and returned to BHEL/other designated places as decided by BHEL. Payment shall be made as per Rate applicable for Non-Pressure Parts. However for removal and returning of the contingency items, no extra payment shall be done by BHEL and the contractor has to do it treating as his normal scope of work.
2	<u>MISCELLANEOUS PLATFORM/APPROACH</u> Additional platforms of permanent nature for approaching different equipment as per the site requirement, though not indicated in drawings, shall also be installed by the contractor. Materials required for such platforms will be supplied by BHEL in random sizes on free issue basis. These have to be fabricated to suit the requirement. Payment only for erected weight as certified by BHEL Engineer shall be made at the applicable item rate (under 6.5 of the revised rate schedule, for both Package A & Package B).
3	<u>DESPATCH OF BOILER DRUM</u> As there is no railway siding available at Vizag site, Boiler drum shall be despatched through Road only.
4	Above will supercede all the relevant clauses appearing in the tender.
5	Price schedule for both Package-A and Package-B is revised to incorporate above changes and the same is enclosed (Rev 01). In accordance with the changes in Price schedule , Clause no. 36.1 of INTERIM PAYMENT Page 26 of 139 has been also modified & attached.
6	Both PGMA 79720 and 79820 are applicable as per tender.
7	<u>Annexure- IV, List of T&P to be deployed by the contractor</u> Deployment schedule shall be reckoned from the date of start of work instead of 'Date of LOI '. Revised Annexure-IV, Rev 01 enclosed .
8	Cl. No. 20.1.1 of TCC is revised as below- The machineries as prescribed in Annexure - III will be provided to the contractor on free of cost basis by BHEL on availability for work covered under the scope . In addition to above, BHEL shall provide requisite Cranes, free of cost, as required for unloading / handling of the Boiler drum, Mill base, and other heavy equipment, unloading of which is in the scope of contractor .
9	Following is further clarified –
9.1	Appendix-I of Pg. No. 45of 139 of TCC is same as the Gr. VII of Annexure-I (Weight schedule)
9.2	Appendix-II is further detail of Gr VII of Annexure-I (Weight schedule)

ANNEXURE-A TO TCN-01
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ANNEXURE – IV , Rev 01

MAJOR TOOLS AND PLANTS TO BE DEPLOYED BY THE CONTRACTOR FOR HANDLING UNLOADING /HANDLING AT PREASSEMBLY AREA, ERECTION AND COMMISSIONING ETC.

SL NO	DESCRIPTION OF EQUIPMENTS	CAPACITY	MINIMUM QUANTITY
01	Crawler cranes	75 T	02 (two) nos 1 st crane to be deployed with in 15 days from the date of start of work and 2 nd crane to be deployed with in 75 days from date of start of work.
02	Tyre mounted/Crawler cranes with telescopic boom/lattice boom	40 T	02 (two) nos 1 no to be deployed with in 15 days from date of start of work. Another 1 no to be deployed with in 75 days from date of start of work.
03	Pick and carry cranes	18 T/25 T	2(two) nos 1 no to be deployed with in 15 days from date of start of work. 1 no to be deployed with in 45 days from date of start of work.
04	Pick & carry tyre mounted mobile crane	10 T/ 12 T/ 14 T	06 (six) nos. 2 nos with in 15 days from date of start of work and bal. progressively with in 75 days from date of start of work.
05.1	Trailer	40 T	1 no (with in 75 days from date of start of work)
05.2	Tractor trolley/ trailer	25 T	04 (four) nos. 1 st trailer to be deployed with in 15 days from date of start of work and 2nd Trailer with in 45 days from date of start of work and bal. with in 100 days from date of start of work.
06	Truck	9 T/ 12 T capacity	04 (four) nos. 02 (two) nos. within 15 days. Balance within 75 days.

ANNEXURE-A TO TCN-01

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07	Wheel mounted lorry / dip trolley	10 T	As per requirement
08	Air compressor (electric) – 7 kg/cm ²	100 psi/ 80 cfm	As per requirement
09	Tig welding set	40	As per requirement
10	Plasma cutting m/c	10 mm	As per requirement
11	Pre-heating/ stress relieving set (heating control panel, cables, heating elements etc.)	20	As per requirement
12	Radiography arrangement including the source.	IR 192 /cobalt 60	As per requirement
13	Radiography film viewer	3	As per requirement
14	High frequency unit for TIG welding	5	As per requirement
15	Digital Temperature indicator	20	As per requirement
16	Infrared sensor for Temperature detector	5	As per requirement
17	RECORDABLE ULTRASONIC TEST EQUIPMENT (USM GO or higher version to meet the requirements)	2	As per requirement
18	GAS BURNER ARRANGEMENT	2	As per requirement
19	PORTABLE HARDNESS TESTER	EQUOTIP OR MICRODUR MAKE	As per requirement
20	SPOT WELDING MACHINNE		As per requirement
21	MOTORISED PIPE BENDING MACHINE FOR BENDING PIPES UPTO 100Nb, thickness 12 mm	AS REQD.	As per requirement
22	Electro-hydraulic pipe bending machine.	For up to 100 mm NB pipes	As per requirement
23	Pipe bending machine – hand operated	Up to 50 mm NB pipes	As per requirement
24	Pipe chamfering machine	For machine pipe dia upto 800 mm	As per requirement
25	Pneumatic / Electric drive power hackshaw for pipe cutting	As per reqmnt	Minimum 4 nos.

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38	Hydraulic jacks	100 T 50 T Others	04 nos 04 nos As per requirement
39	1 sec total station		02 nos
40	Pneumatic /Electrical Torque wrenches (spec 600 ft lb)	600 ft-lb (up to min M 64 size)	06 nos
41	Mechanical torque wrench	750 ft-lb	06 nos
42	Pipe Beveling Machine	As per requirement	As per requirement
43	Special slings and deshakles for unloading drum and lifting of ceiling girder and handling ODC consignments		As per requirement.
44	Aluminium sheet clad Profile making machine	As per requirement	As per requirement
45	Hand Tools, Cutting Tools, grinding machines etc.	As per requirement	As per requirement
46	Nibbling machine	As per requirement	As per requirement
47	Shearing machine	As per requirement	As per requirement
48	Sky climber	As per requirement	As per requirement
49	Man lifter hydraulic platform – 60 M height, maximum platform length – 10M (Carrying capacity – 8 persons, appx. 1.5 MT)	For WW panel alignment & welding	2 nos.
50	Dewatering pump with high pressure hose	For dewatering during rainy season	1 No.
51	Plotter & Xerox machine	As per requirement	1 each

Note

The above major T&P list is indicative only. Additional T & Ps, if required have to be mobilized by you within the quoted/accepted rate.

ANNEXURE-A TO TCN-01
TENDER NO. PSER:SCT:VIZ-B1192:11

36.1	STAGES OF PROGRESSIVE PRO-RATA PAYMENTS				
36.1.1	The contractor shall submit his running bill once in a month at the end of each month in line with billing schedule indicated below. The R.A. bill complete in all respects accompanied by BHEL engineers certified/measurement sheet, jointly signed, will be paid after passing of the bill subject to completeness and correctness. The measurement will be taken as specified in terms and conditions of contract and certified by the BHEL engineer of actual work. However, no extra payment shall be made in the event of delay in release of payment.				
36.1.2	Subject to any deduction which BHEL may be authorized to make under the contract the contractor shall on the certification of the BHEL engineer at site, be entitled to payment explained hereunder.				
36.1.2.1	Boiler and it's auxiliaries {applicable for sl. Nos. 1 to 4 i.e. Group I to Group IV of volume-II, price schedule}. The quoted rates per MT for different groups shall be distributed in the following manner for releasing payments against RA bills:				
36.1.2.1.1	Stages of payment	Group-I Pr parts	Group-II Integral / Trim piping	Group-III Non-pr parts	Group-IV Rotating machines
36.1.2.1.2	Completion of pre-assembly	15%	----	15%	----
36.1.2.1.3	Placement in position	26%	36%	26%	41%
36.1.2.1.4	Alignment, grouting & welding including bolting as required	30%	30%	30%	30%
36.1.2.1.5	Completion of non destructive examination & stress relieving/ heat treatment	10%	10%	----	----
36.1.2.1.6	Bolting & completion hangers & supports etc wherever necessary	----	10%	06%	10%
36.1.2.1.7	Completion of hydraulic test (drainable)	02%	03%	----	----
36.1.2.1.8	Completion of air & gas tightness test for equipment	----	----	01%	----
36.1.2.1.9	Boiler light up and ABO	02%	----	01%	03%
36.1.2.1.10	Completion of acid/ EDTA cleaning	02%	----	02%	----
36.1.2.1.11	On completion of steam blowing & Safety Valve floating	02%	----	----	----
36.1.2.1.12	Coal firing	01%	----	02%	04%
36.1.2.1.13	Full loading	--	----	03%	03%
36.1.2.1.14	Submission of as-built drawings	01%	02%	NA	NA
36.1.2.1.15	Painting	5%	5%	5%	5%
36.1.2.1.16	Liquidation of pending points	2%	2%	2%	2%
36.1.2.1.17	Reconciliation of issued	01%	01%	01%	01%

ANNEXURE-A TO TCN-01
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	materials				
36.1.2.1.18	Completion of all contractual Obligation and de mobilization of site office.	01%	01%	01%	01%
36.1.2.1.19	TOTAL	100%	100%	100%	100%
36.1.2.2	The quoted rates per MT of ESP group (SI no 5.0 of Price schedule, Vol-II, (Group V) shall be distributed in the following manner for releasing payments against RA bills:				
36.1.2.2.1	The quoted / awarded rate per MT shall be released on pro-rata basis as per the following distribution				
	i) Pre-assembly and Erection	-	15 %.		
		-	21%, if pre-assembly is involved		
	or				
	Direct erection	-	36 %.		
	ii) Alignment, bolting, welding	-	35.0 %.		
	iii) Gas tightness test of ESP	-	5 %.		
	iv) Gas distribution test of ESP	-	2 %.		
	v) Comm. of collecting rapping sys	-	2 %.		
	vi) Comm. of emitting rapping Sys	-	2 %.		
	vii) Charging of all fields of ESP	-	2 %.		
	viii) Light-up of the Unit	-	2 %.		
	ix) Coal firing of the Unit	-	3 %.		
	x) Full Load of the Unit	-	2 %		
	xi) Painting	-	5%		
	xi) Liquidation of pending points	-	2 %		
	xii) Reconciliation of issued material	-	1 %		
	xiii) Site Demobilisation	-	1 %.		

	TOTAL	-	100 %		
36.1.2.3	Stages of Progressive Pro-Rata Payments of Piping Group (SI no 6.0 of Price schedule , Vol-II) (Group VI) 100% PAYMENT BREAK UP				

ANNEXURE-A TO TCN-01
TENDER NO. PSER:SCT:VIZ-B1192:11

36.1.2.3.1	STAGES OF PAYMENT	PIPINGS including VALVES ETC. (SI. No. 6.1, 6.2, 6.3)	STRUCTURES, HANGERS, PLATFORMS ETC. (SI. No. 6.4 & 6.5).
36.1.2.3.1.1	Completion of Pre-assembly	15 %	----
36.1.2.3.1.2	Placement in Position	26 %	51 %
36.1.2.3.1.3	Alignment, welding, grouting & bolting as required	30 %	35 %
36.1.2.3.1.4	Completion of non destructive examination & stress relieving / heat treatment	10 %	----
36.1.2.3.1.5	Completion of Hydraulic test(drainable)	04 %	----
36.1.2.3.1.6	Pre-Boiler System Flushing/chemical cleaning	01 %	----
36.1.2.3.1.7	Boiler light up and ABO	01 %	01 %
36.1.2.3.1.8	Completion of steam blowing	01 %	---
36.1.2.3.1.9	Hot correction of hangers	01 %	02 %
36.1.2.3.1.10	COAL FIRING	01 %	01 %
36.1.2.3.1.11	FULL LOADING	01 %	01 %
36.1.2.3.1.12	Submission of As-built drawings	01 %	01 %
36.1.2.3.1.13	Painting	05%	05%
36.1.2.3.1.14	Liquidation of pending points	01 %	01 %
36.1.2.3.1.15	Reconciliation of issued materials	01 %	01 %
36.1.2.3.1.16	Completion of all contractual Obligation and de mobilization of site office.	01 %	01 %
36.1.2.3.1.17	TOTAL	100 %	100 %
36.1.2.4	Stages of Progressive Pro-Rata Payments of Insulation Application (SI no 7.0 of Price schedule, Vol-II)		100% break up
36.1.2.4.1	Surface preparation/void closing/application of bituminous paints/hook welding etc		14 %.
36.1.2.4.2	Application/erection		60 %
36.1.2.4.3	Completion of work, like sheeting, sealing completion etc		15 %
36.1.2.4.4	BOILER LIGHT UP		3%
36.1.2.4.5	STEAM BLOWING		2%
36.1.2.4.6	SYNCHRONISATION & COAL FIRING		2%
36.1.2.4.7	TRIAL OPERATION		2%
36.1.2.4.8	COMPLETION OF WORK IN ALL RESPECT		2 %
36.1.2.4.9	Total		100%
36.1.2.5	Stages of Progressive Pro-Rata Payments of PG Test assistance (SI no 8.0 of Price schedule , Vol-II)		100% break up
36.1.2.5.1	On completion of the PG test of the unit which is to be certified by the BHEL Engineer		100%
36.1.5.6	DELETED		

PACKAGE-A	
VOLUME-II	
PRICE/RATE SCHEDULE, REV-01	
ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#1 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH	
TENDER NO :- PSER:SCT:VIZ-B1192:11	
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 all together.
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	All works item wise shall be measured upon completion and paid for at the rates quoted & accepted.

**VOLUME-II (PACKAGE - A), Rev 01
(BOILER & AUX INCLUDING ESP, CRITICAL PIPING, INSULATION, PAINTING ETC)**

PACKAGE A - ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#1 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH

VOLUME-II, TENDER NO :- PSER:SCT:VIZ-B1192:11

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

SL.NO	DESCRIPTION OF ITEM	QUANTITY	UNIT	UNIT RATE (In Rs)	TOTAL AMOUNT (IN Rs) (In figures & In Words)
		a		b	a x b
1.0	Group-I(Pressue Part)	5007	MT		
2.0	Group-II(Intergral and Trim piping)	460	MT		
3.0	Group-III(Non-Pressure Part)	11734	MT		
4.0	Group-IV(Rotating machines)	2830	MT		
5.0	Group-V(ESP)	8106	MT		
6.0	Group -VI (Piping etc.)				
6.1	P-91 PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	172	MT		
6.2	OTHER ALLOY STEEL PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	658	MT		
6.3	CARBON STEEL PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	973	MT		
6.4	STRUCTURES / HANGERS & SUPPORTS	580	MT		

**VOLUME-II (PACKAGE - A), Rev 01
(BOILER & AUX INCLUDING ESP, CRITICAL PIPING, INSULATION, PAINTING ETC)**

PACKAGE A - ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#1 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH

VOLUME-II, TENDER NO :- PSER:SCT:VIZ-B1192:11

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

6.5	Fabrication & Erection of Boiler structure including miscellaneous Approach/Operation platform (material shall be supplied by BHEL free of cost)	300	MT		
7.0	Insulation	3023	MT		
8.0	Lump sum price for providing assistance for conducting PG test.	1	NO		
TOTAL (in Rs.)					

NOTES

- | | |
|-----|---|
| 1.0 | FOR DETAILS OF PGs COVERED UNDER DIFFERENT GROUPS, PLEASE REFER TO ANNEXURE (WEIGHT SCHEDULE). |
| 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 & AUX. THE QUOTED RATES SHALL BE APPLICABLE FOR SUCH PGS ALSO WITHIN THE STIPULATED VARIATION LIMIT. |
| 3.0 | 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. |

PACKAGE-B	
VOLUME-II	
PRICE/RATE SCHEDULE, REV-01	
ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#2 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH	
TENDER NO :- PSER:SCT:VIZ-B1192:11	
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 all together.
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	All works item wise shall be measured upon completion and paid for at the rates quoted & accepted.

**VOLUME-II (PACKAGE -B), Rev 01
(BOILER & AUX INCLUDING ESP, CRITICAL PIPING, INSULATION, PAINTING ETC)**

PACKAGE B - ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#2 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH

VOLUME-II , TENDER NO :- PSER:SCT:VIZ-B1192:11

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

SL.NO	DESCRIPTION OF ITEM	QUANTITY	UNIT	UNIT RATE (In Rs)	TOTAL AMOUNT (IN Rs) (In figures & In Words)
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2.0	Group-II(Intergral and Trim piping)	460	MT		
3.0	Group-III(Non-Pressure Part)	11734	MT		
4.0	Group-IV(Rotating machines)	2830	MT		
5.0	Group-V(ESP)	8106	MT		
6.0	Group -VI (Piping etc.)				
6.1	P-91 PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	172	MT		
6.2	OTHER ALLOY STEEL PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	658	MT		
6.3	CARBON STEEL PIPINGS INCLUDING ASSOCIATED VALVES AND OTHER FITTINGS LIKE FLOW NOZZ., ORIFICE, TRAPS ETC.	973	MT		
6.4	STRUCTURES / HANGERS & SUPPORTS	580	MT		

**VOLUME-II (PACKAGE -B), Rev 01
(BOILER & AUX INCLUDING ESP, CRITICAL PIPING, INSULATION, PAINTING ETC)**

PACKAGE B - ERECTION, TESTING, COMMISSIONING, HANDING OVER ETC. OF BOILER & AUX, ESP, ROTATING MACHINES AND DUCT, CRITICAL PIPING, MISC. BOILER INTEGRAL PIPING, INSULATION, PAINTING ETC. FOR U#2 OF 2x520 MW HINDUJA NATIONAL POWER CORPORATION LTD., PAVALAVASA, VIZAG, ANDHRA PRADESH

VOLUME-II , TENDER NO :- PSER:SCT:VIZ-B1192:11

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

SL.NO	DESCRIPTION OF ITEM	QUANTITY	UNIT	UNIT RATE (In Rs)	TOTAL AMOUNT (IN Rs) (In figures & In Words)
		a		b	a x b
6.5	Fabrication & Erection of Boiler structure including miscellaneous Approach / Operation platform (material shall be supplied by BHEL free of cost)	300	MT		
7.0	Insulation	3023	MT		
8.0	Lump sum price for providing assistance for conducting PG test.	1	NO		
TOTAL (in Rs.)					

NOTES

1.0	FOR DETAILS OF PGs COVERED UNDER DIFFERENT GROUPS, PLEASE REFER TO ANNEXURE (WEIGHT SCHEDULE).
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 & AUX. THE QUOTED RATES SHALL BE APPLICABLE FOR SUCH PGS ALSO WITHIN THE STIPULATED VARIATION LIMIT.
3.0	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.

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Package A:- Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler , Rotating Machines and Duct, ESP , Critical Piping , Misc. Piping , Boiler Integral piping , Insulation & Final Painting etc. of Unit # 1 at 2x520 MW HNPCL/VIZAG Thermal Power Project . Package B:- Receipt , Handling at site , Erection , testing , commissioning , trial run , handing over of boiler , Rotating Machines and Duct, ESP , Critical Piping , Misc. Piping , Boiler Integral piping , Insulation & Final Painting etc. of Unit # 2 at 2x520 MW HNPCL/VIZAG Thermal Power Project .	
Ref	1.0	Tender no PSER:SCT:VIZ-B1192 :11
	2.0	BHEL's NIT, vide ref no PSER:SCT:VIZ-B1192 Dated 25/04/2011
	3.0	BHEL's TCN-01 vide ref. no. PSER:SCT:VIZ-B1192:TCN-01 Dated 06/05/2011
	4.0	Other references (if any).

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)