TENDER no: PSER:SCT: KBA-M657:06, TCN - 01 DATED 06/04 /2006

(LP PIPING WORKS FOR 2 X 250 MW, KORBA THERMAL POWER PLANT, CHHATISHGARH)

S.N	CLAUSE REF NO. OF TENDER		AMMENDED DESCRIPTION OF CLAUSE
	DOCUMENT NO. PSER:SCT:KBA-M657:06	CLAUSE OF TENDER	
1	Page no. 12 of 43, clause no. 8.1.13 of vol-ID	Commissioning assistance, post commissioning assistance and valve servicing till commercial handover of the plant to CSEB are included in the scope of work	
2	Page no. 13 of 22 , clause no. 12.0 of vol-IC, Mobilisation Advance		MOBILIZATION ADVANCE
	Advance	No mobilisation advance shall be given for this contract.	Interest free mobilization advance is not admissible. Interest bearing {SBI PLR (applicable at the time of drawing mobilization advance) plus 2%} advance, limited to 5% (five percent) of the contract price of supply portion (excluding elements of taxes & duties) may be paid on receipt of request from Vendor and the amount may be paid on submission of BG for 1.2 times of equivalent advance amount, unqualified acceptance of letter of intent (LOI), security deposit, performance bond & approval of L1 schedule/network of engg. as per clause no. 3.0 of Vol-IC of tender. The bank guarantee shall be kept valid till the entire advance amount is recovered. Compound interest @SBI PLR rate plus 2% shall be calculated at monthly rest. Recovery of this amount will be made @ 10% (ten percent) of the admitted gross running bill amount from the first applicable running bill onwards (after payment of advance) till the entire advance is recovered.
3	Page no. 43 of 43 , clause no. 34.0 of vol-ID, Mobilisation	MOBILIZATION ADVANCE	MOBILISATION ADVANCE
	Advance		Interest free mobilization advance is not admissible. However
			Interest bearing {SBI PLR (applicable at the time of drawing

			mobilization advance) plus 2% } mobilisation advance, limited to 5% (five percent) of the total contract value of services portion (awarded value as per LOI) may be paid to the contractor in the following manner: a) 3 % of the contract price shall be payable on submission of BG for 1.2 times of advance amount, unqualified acceptance of LOI submission of security deposit, approval of time schedule (L1/ L2 network) by BHEL site, establishment of site office as certified by BHEL/site and mobilisation of Excavator (Poclain)—1 no. b) 2 % will be paid on submission of BG for 1.2 times of advance amount, mobilisation of earth dozing equipment — 1 no. & Dumper—1 no The bank guarantee shall be kept valid till the entire advance amount is recovered. Compound interest @SBI PLR rate plus 2% shall be calculated at monthly rest. Recovery of this amount will be made @ 10% (ten percent) of the admitted gross running bill amount from the first applicable running bill onwards (after payment of advance) till the
4	Page no. 14-15 of 43, clause no. 8.3 of vol-ID, Thickness of Pre-Fabricated tapes for coating & wrapping of buried pipes. S. no. 7 of Mechanical BOQ (Rev-01) of Vol-III/ Rate	Thickness 4 mm, single layer.	entire advance is recovered. Two layers, each 2 mm Thick as per IS 15337. All other specifications / details remain unchanged. CW Pipes shall be supplied BY BHEL, with coal tar painting applied. Bidder shall provide coal tar tapes over this.
5	schedule Page no. 5 of 33, clause no. 2.02.02 of Vol-IIB, Sec-D	Fabrication of rolled and welded pipes (size 400 Nb and above) from plate IS 2062.	Fabrication of rolled and welded pipes (size 400 Nb and above) from plate IS 2062. PIPE OF IS: 3589 FROM BHEL APPROVED VENDORS IS ALSO ACCEPTABLE SUBJECT TO MEETING QUALITY REQUIREMENTS.

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6	Page no. 12 of 43, clause no. 8.1.7 of vol-ID	All pipes excluding large dia pipes shall be supplied by vendor. Fittings like tees, reducers, elbows, manholes, mitre bends, and flanges for CW/ACW/RAW water piping shall be supplied by BHEL (on free of cost basis) based on layout/fabrication drawings	All pipes excluding large diameter pipes shall be supplied by vendor. Fittings like tees, reducers, elbows, manholes, mitre bends, and flanges for CW/ACW/RAW water piping shall be supplied / provided by bidders based on layout/fabrication drawings. The details of BHEL supplied pipes (only straight pipes) shall as per DOC. No:- PE-DC-214-100-M003 (REV 0, 4 SHEETS) Of original tender Vol-II.
7	Page no. 12 of 43, clause no. 8.1.8 of vol-ID	Mitre bends, Tees of sizes NB 300 and above for LP piping systems (other than CW Piping systems) in required numbers, shall be fabricated by the Contractor, for which raw materials shall be issued by BHEL on free of cost basis. Payment shall be made as per applicable item of Rate schedule	Mitre bends, Tees of sizes NB 300 and above for LP piping systems (including CW Piping systems) in required numbers, shall be fabricated by the Contractor, for which raw materials (pipes/plates) shall be issued by BHEL on free of cost basis. Payment shall be made as per applicable item of Rate schedule.

General points

- 1. Material (Steel plates) for making blank / dummy / blind flanges for hydraulic / pressure test/ flushing as envisaged in the tender shall be issued on free of cost basis to contractor.
- 2. BHEL supplied free issue valves as identified in the tender document shall be with counter flanges. List of valves to be supplied by BHEL for free issue to contractor is attached. It is clarified that, there is no valves supply envisaged in bidders scope in this tender.
- 3. BHEL FURTHER CONFIRMED THAT Large diameter CW piping shall be supplied by BHEL in fabricated condition in running lengths. CW Pipes shall be supplied in fabricated condition, generally in 6-10 meter random lengths. Fittings like tees, reducers, elbows, manholes, mitre bends, flanges for CW piping shall be supplied/ fabricated by bidders. For this purpose, pipes in running length and steel plates shall be issued free of cost by BHEL.
- 4. Fabrication of Mitre bends, Tees, Reducers or spool pieces for sizes 300 NB & above (as required for successful completion of work as per tender conditions and direction of BHEL Site Engineer), shall be done at site as per BHEL approved drawings or

layout/ fabrication plan/development plan / cutting plan / sketch accepted by BHEL site Engineer. All wastages as per this BHEL approved / accepted layout / cutting plans shall be to BHEL's account. Payment shall be made as per S.NO. 6, of Mechanical BOQ cum rate schedule, vol-III, Rev-01.

- 5. The unit rates as required in vol. III / price format for optional items shall be for any additional requirement over & above as indicated in tender specification. Work shall be executed as detailed in tender specification.
- 6. Specification for internal surface protection of piping and fittings, as appearing at Annexure-III, Vol-IIB, Sec-D, Page 27 of 33 is applicable for pipes and fittings of size 1000 NB & ABOVE.
- 7. Bidders responsibility with regard to any sort of guarantee envisaged in this tender/package shall be limited to their scope of supply/ work only.
- 8. Consumption and wastage (for free issue of BHEL materials) as defined in Volume-ID of tender document shall be applicable for all the works covered in the tender.
- 9. Backfilling will be done with excavated earth to the extent possible.
- 10. Following T&Ps shall be provided by the contractor for erection, commg. of LP Piping Package (new clause in Vol-ID) :-

LIST OF T&Ps TO BE PROVIDED BY CONTRACTOR WITHIN QUOTED/ACCEPTED RATES

Contractors may please note that this list is not exhaustive & given for guidance purpose. The contractor may required to deploy additional T&Ps not mentioned in this list at their own cost for proper execution of the job.

<u>SI</u>	<u>Description</u>	<u>Quantity</u>
01.	Crawler Crane - 35 T / 40 T	1 no.
02.	Pick and carry crane – 8T	2 nos.
03.	Tractor-trailor 20T/10T (with long bed)	1 no.
04.	Poclain / Hyd. Excavator	1 no.
05.	Electrical Winch 2T	1 no
06.	Hydraulic test pump (0-100 kg/sq. cm.)	1 no
07.	Hand winch	2 nos.
08.	Welding Generator K -320	10 nos.
09.	Flux cored arc semi-automatic welding m/c	3 nos. (MIG CO2)
10.	Welding transformer 300 / 450 amp	10 nos.

11.	Welding Rectifier	6 nos.
12. 13.	Hydraulic pipe bending m/c Chain pulley block 5T, 3T, 2T	3 nos.
13. 14	Pull lift 6T, 5T, 3T, 1.5T	
15.	Hydraulic jack 20T, 10T, 5T	
16.	Single sheave snatch pulley 10T, 5T	
17.	D shakles 10T, 20T, 50T	
18.	Turn buckles 3T, 5T, 8T, 10T, 15T, 20T	
19.	Tig welding set	
20.	Oxygen regulator	
21.	Acetylene regulator	
22.	Cutogen 5	
23.	Oxygen hose 10 mm	
24.	Acetylene hose 10 mm	
25.	Electrode drying oven	
26.	Portable electrode drying oven	
27.	Copper welding cable 600 amp, 400 amp	\ As required
28.	Aluminium cable 600 amp, 400 amp	>
29.	Thermal-chalk 100 deg C to 800 deg C	
30.	Electrode baking oven	
31.	Theodolite - 1 sec accuracy	
32.	Spirit level 12 inch, 0.1 mm accuracy	
33.	Dial gauges	
34.	Flood light with bulb	
35.	Drilling m/c of different sizes	
36.	Grinding m/c of different sizes	
37.	Trip torque wrench	
38.	Aluminium telescopic ladder	
39.	Manila ropes of different sizes	
40.	Steel wire ropes of different sizes	
41.	Dye penetrant test kit	
42.	RT/UT arrangement	-
43.	Dewatering pumps : 10H.P pump	4 nos.
	5 H.P pump	2 nos.
	2 H.P pump	2 nos.

1 H.P Portable Submersible pump 4 nos.

44. Equipment for misc. Civil works – As required

45.

Earth Dozing Equipment - 1 no.
 Dumpers - 2 nos.
 Hand operated Hydraulic Test Pump - 1 no.
 Earth Rammer (for compaction of earth) - 2 nos.
 Air compressor - 1 no.

- 11. External painting of over-ground CW piping as well as LP piping, is in contractor's scope in line with Clause no. 33.0, Vol-ID.
- 12. Variation shall be read as +/- 30 % wherever it is mentioned as +/- 25 % in the tender specification.
- BHEL reconfirms that as per Cl. 9.2.1 of SCC, Vol-ID, Cement and Reinforcement/structural steel shall be issued free of cost by BHEL to the contractor for the subject job.
- NDT (Non destructive Test) this shall be complied by contractor as per approved welding schedule / WPS/Field Quality Plan, which will be provided by BHEL during execution.
- List of approved vendor list for supply portion is enclosed. Supply from any other vendor, who will meet technical specifications of tender and acceptable to BHEL/ CSEB shall also be accepted.
- Korba project is being dealt under clause no. 8.2 (g) of Govt. Of India Foreign Trade policy. Deemed export benefits (towards taxes/duties of this tender) will be available as per this Govt. Policy.
- Acid pickling is not required for Stainless steel pipes. There is no rubber lined pipes in this package. In case of stainless steel pipes supplied by the bidder (covered anywhere in the specification / BOQ cum rate schedule), bidders can supply seamless/ERW/ Welded pipes.
- River Damodar as appearing anywhere in tender shall be read as nearby rivers/ Hasdeo river.
- These clarifications (TCN-01) will form a part of the tender document and should be submitted (duly signed) along with bid as specified. Quoted price of bidders will be presumed on the basis of original tender & these clarifications (TCN-01). These clarifications (TCN-01) including all enclosures mentioned below will form a part of the tender document and should be submitted (duly signed) along with bid as specified. Price shall be quoted in revised BOQ (vol-III), revision-1 only. Revision-01 of Vol-III (BOQ cum rate schedule, supply as welll services portion) is enclosed. This BOQ supersedes earlier BOQ issued along with original tender dated 04/03/2006.
- STAINLESS STEEL PIPE THICKNESS DETAILS IS GIVEN VIDE SEPARATE ENCLOSURE. BIDDERS SHOULD QUOTE THEIR PRICE ACCORDINGLY

- Based on the request of bidders, submission due date is extended up to 15/04/2006 (15:00 Hrs.). Technical bid shall be opened on next working day.
- Based on clarifications furnished above, all the bidders are requested to submit their offer without any deviation, within stipulated time i.e. by **15-04-2006** (Receipt date). No further queries/clarifications from bidders against this tender, shall be entertained.
- All the clauses of original tender document, which are not mentioned/covered in above clarifications (TCN-01), will remain unchanged. All other queries raised by bidders shall not be taken into consideration.
- ENCLOSURE: 1. Revision-01 of BOQ cum rate schedule (Vol-III) comprising of supply portion and services portion.
 - 2. Approved vendor list for supply items
 - 3. <u>LPPBOM (fittings)-LARGE DIA</u>- For supply and E&C (to be fabricated at site from straight pipes and plates, to be issued to vendor by BHEL on free of cost basis)
 - 4. BOMSL- For E&C only (items shall be supplied as free issue by BHEL)
 - 5. <u>DATA SHEET bfv</u> For E&C only (items shall be supplied as free issue by BHEL)
 - 6. <u>CI AIR RELEASE VALVES VENUS</u> For E&C only (items shall be supplied as free issue by BHEL)
 - 7. PLOT PLAN FOR KORBA (EAST)
 - 8. <u>CW PIPING LAYOUT FOR KORBA (EAST)</u>
 - 9. BOM ball valve- korba
 - 10. STAINLESS STEEL PIPE THICKNESS DETAILS
 - 11. <u>P&ID drawings 4 nos. for reference purpose Not published in website To be collected by bidders from BHEL/PSER/KOLKATA IN HARD</u> COPY FORM

(MANAGER/SCT)
BHEL/PSERHQ/KOLKATA