



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)
Power Sector, Western Region,
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FAX (PCC by Courier/Speedpost)

Ref: BHE/PW/PUR/HZI-STG/473-Amendment-01

Dated 02/01/2007

To,

All Bidders,

Dear Sirs,

SUB: Amendment –I to Tender Specification No. BHE/PW/PUR/HZI-STG/473

JOB: Collection of materials from BHEL/C client's stores/storage yard, Handling at Stores/ Storage Yard, Transportation to site of work including via pre-assembly yard, Erection, Testing, Assistance for Commissioning, Final Painting & Handing Over of Condenser, Steam Turbine, Generator, Static Equipments, Pumps & Auxiliaries including TG Integral Piping, ESV to Turbine & Gland Steam Piping etc. at 1x80 MW unit-3 STG set at Chanderiya Lead Zinc Smelter Captive Power Plant, Hindustan Zinc Limited Chittorgarh, Rajasthan

With regard to the subject Tender Specification for the job stated above, we would like to amend the Terms of Payment (**Section-12** of Special Conditions of Contract). Complete Section-12 of SCC is hereby being superseded by the enclosed Section-12 (Revision-01, dated 02/01/2007). All other terms and conditions of the Tender Specification shall remain unaltered unless and otherwise expressly amended by BHEL.

Please send one copy of this letter with enclosures duly counter-signed by your authorized signatory and stamped with your official seal as a token of your unqualified acceptance of this amendment along with your technical bid.

Those agencies who have already dispatched/ submitted their offer, are requested to send the said acceptance in a separate sealed envelop with superscription "**Acceptance of Amendment-01 dated 02/01/2007 of Tender Specification BHE/PW/PUR/HZI-STG/473**".

Please ensure that your bid documents reach us on or before the **Last Date** for offer submission i.e. by **09/01/2007**.

Thanking you.

Yours faithfully

For BHARAT HEAVY ELECTRICALS LIMITED

DGM (Purchase)

Encl: Payment Terms SECTION -12 (Revision – 01 dated 02/01/2007)

SECTION-12 (Revision – 01 dated 02/01/2007)

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Special Conditions of Contract

12.0 Terms of Payment

12.1 Payment for Work Completed

12.0.1

The contractor shall submit his monthly on account bills with all the details required by BHEL on specified date every month covering progress of work in all respects and areas from the 25th of previous calendar month to 24th of the current month.

12.0.2

Clause 2.6 of general conditions of contract shall be referred to as regards mode of payment, and measurement of the work completed.

12.0.3

Release of payment in each running bill will be restricted to 95% of the value of work admitted, as per the percentage break-up for the stage of work completion stipulated vide clauses hereinafter.

The 5% thus remaining shall be on account of workmanship guarantee of work executed. The same will be released after completion of the guarantee period of 12 months from the date of completion of entire work as certified by BHEL engineer. However, this amount may be released earlier than that but after start of work, on receipt and acceptance of bank guarantee of equal amount in prescribed format. The BG shall be kept valid till completion of such guarantee period and an additional six months claim period.

12.0.4

The payment for running bills will normally be released within 30 days of submission of running bill with measurement sheets. Contractor shall make his own arrangement for making payment of impending labour wages and other dues in the meanwhile.

12.2 Stages of Progressive Pro-Rata Payments

12.2.1 PROGRESSIVE PAYMENT OF AGREED LUMP SUM PRICE OF RATE SCHEDULE FOR CONDENSER, TURBINE, GENERATOR WITH AUX., PUMPS & AUX., TANKS & VESSELS AND INTEGRAL PIPING ETC.

Payment will be made as per break up given under:

12.2.1.1 Condenser (12%)

01) Preparation of Foundation, Placement, Leveling and Alignment of Sole plates:	1%
02) Erection & Alignment of condenser:	3%
03) Erection & Alignment of Hot Well:	1%
04) Tube insertion & expansion:	2%
05) Condenser neck welding with Turbine:	2%
06) Hot well welding with Condenser:	1%
07) CW piping connection :	1%
08) Hydro Test:	1%
Total	12%

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12.2.1.2 Turbine (15%) :

01)	Preparation Of Foundation, Placement, Leveling Of: Base Plates & Bearing Pedestals	2%
02)	Placement, Assy. & Centering Of Turbine Casing:	3%
03)	Box Up Of Turbine:	1%
04)	Rotor Alignment:	2%
05)	Reaming and coupling:	2%
06)	Grouting of Frame/ foundation:	2%
07)	Assembly Of Regulation System:	1%
08)	Installation Of System Control Valves:	1%
09)	Final Bearing Box up:	1%
Total		15%

12.2.1.3 Generator (33%) :

01)	Preparation of Foundation & Base Plates :	1%
02)	Readiness of Generator Stator lifting arrangement at site :	6%
03)	Lifting & Placement of Generator Stator on required foundation:	14%
04)	Leveling and centering of stator on foundation:	1%
05)	Threading of Rotor & Assy. of End Shields :	1%
06)	Alignment of Rotor:	1%
07)	Reaming and coupling:	1%
08)	Grouting of Frame/ foundation:	1%
09)	Bearing Box up:	1%
10)	Final – Box Up of Generator:	1%
11)	Erection of Excitation System:	1%
12)	Erection of Generator Auxiliaries :	1%
13)	Erection of Generator air Coolers:	1%
14)	Erection of CO ₂ system:	2%
Total		33%

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12.2.1.4 Pumps and Auxiliaries (18%):

01)	Preparation of Foundations, Placement BF Pumps: & Motors (2 Sets)	1%
02)	Leveling & Alignment of BFP (2 Sets):	2%
03)	Completion of Final Grouting of BFP (2 sets):	1%
04)	Preparation of Foundations and Placement of: Condensate Extraction Pumps (2 Sets)	1%
05)	Leveling & Alignment of C. E. Pumps (2 Sets):	1%
06)	Completion of Final Grouting of C. E. Pumps (2 sets):	2%
07)	Erection of Lube Oil Pumps, Oil Centrifuge, Oil Coolers, : Duplex Oil filters & Other Misc. Pumps	3%
08)	Erection of Main Oil Tank, Over Head Oil Tank: and Drain Cooler etc.	2%
09)	Erection of HP Heaters and accessories:	1%
10)	Erection of LP Heaters and accessories:	1%
11)	Erection of Gland Steam Condenser:	1%
12)	Erection of Steam Air Ejectors:	2%
Total		18%

12.2.1.5 TG Integral Piping with Valves, Fittings, Supports etc.(10%):

1)	Erection, alignment, welding/NDE, supporting and: hydraulic testing of Lube oil system/ Governing oil system/Jacking oil system pipings etc.	4%
2)	Erection, alignment, Welding/NDE, supporting: & Steam blowing etc. of MS line from ESV to Turbine.	2%
3)	Erection, alignment, Welding/NDE, supporting: etc. of Gland Steam piping & Steam Extraction lines.	1%
4)	Erection, alignment, Welding/NDE, supporting: etc. of Cooling water connection piping.	1%
5)	Erection, alignment, Welding/NDE, supporting: etc. of drains & vents and Misc. piping.	2%
Total		10%

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12.2.1.6 <u>Final Painting:</u>	2%
12.2.1.7 <u>T. G. Commissioning (10%):</u>	
01) Commng of Feed System Including BFPs:	1%
02) Commng of Condensate System Including CEPs:	1%
03) Commng of Vacuum System & Steam Ejectors:	1%
04) Commng of CW Pumps & System:	1%
05) Turbine Oil Flushing & Oil System Commng:	2%
06) Barring Gear :	1%
07) Rolling & Synchronization:	1%
08) Trial operation-	1%
09) Stability run & completion of PG test related works:	1%
Total	10%

Grand Total : 100%