



Ref: BHE/PW/PUR/SMH-HTE/541 /CLA-01 (Page-1/ 4)

Dated: 15/01/2008

To,

ALL BIDDERS

Dear Sir,

SUB : AMENDMENT & CLARIFICATION -01 REG

NAME OF THE WORK: Development of infrastructure, receipt & unloading of materials/parts at stores/storage yard, loading at stores/storage, transportation from stores/storage to erection site, unloading at power house site, assembly, erection, testing and commissioning of 10x40 MW Hydro-Electric Generating units with related auxiliaries at Maheshwar HEP, Mandleshwar, Distt. Khargone (M.P.). **TENDER SPECIFICATION NO:- BHE/PW/PUR/SMH-HTE/541**

A) Some of tender clauses are amended as below :

SR NO	EXISTING TENDER CLAUSE	EXISTING TENDER CLAUSE HAVE BEEN AMENDED AS BELOW :
1	Refer Technical Bid – Part –I, Section-4 Clause No : 4.12 Embedded Pipes In First Stage: M/S SMHPCL have already erected drain pipes of penstock / spiral casing, draft tube of all units and common header for dewatering. Necessary further fittings such as valves and other mounting etc. are to be done by the contractor.	Embedded Pipes In First Stage: M/S SMHPCL have already erected drain pipes of penstock / spiral casing, draft tube of all units. Erection of common header for dewatering and further fittings such as valves and other mounting etc. are to be done by the contractor.
2	Refer Technical Bid – Part –I, Section-4 Clause No : 4.30.2 4.30.1 Field Efficiency Test: Cleaning, checking, installation, welding, welds testing and pressure testing and installation of necessary pipes from concrete penstock as well as draft tube and terminating at the connected panels / equipment is included in the scope of work. The scope shall also include conducting the field efficiency test / index test at site on two units as a part of performance guarantee tests. The test arrangement is provided for Unit-3 and 4 only (Or any Two machines as decided by BHEL site in-charge/customer at site).	4.30.2 Field Efficiency Test: Erection of field efficiency pipes for Unit-3 & Unit-4 is excluded from the scope. The scope of contractor shall be conducting the field efficiency test/index test at site on Unit-3 & Unit-4 as a part of performance guarantee test.

B) Some bidders have asked clarifications/questions on this tender which are replied by us as below.

Que :1) Erection of Spiral Casing is in whose scope ?

Answer as below :

It is clarified that Spiral casing casting shall be carried out by Customer after installation/levelling/ alignment of Staying etc. by contractor under this tender specification. Spiral Casing and Penstock will be of concrete. Casting of Spiral Casing with related activities will be done by Customer.

Que :2) Servo motor inspection – PI Clarify the Scope?

Ans : Scope of work under these tender specification includes the Hydraulic testing of servo motors along with arranging all related arrangements also.

Que : 3) Final erection of adjustment piece of spiral casing with penstock- Whose Scope?

Ans : It is clarified that Spiral casing casting shall be carried out by Customer after installation/levelling/ alignment of Staying etc. by contractor under this tender specification. Spiral Casing and Penstock will be of concrete. Casting of Spiral Casing with related activities will be done by Customer.

Que :4) Store house sketch diagram not enclosed ?

Ans : Necessary sketch diagram is available in technical bid in hard copy & not hosted in web. Hence on purchase of tender, same will be available.

Que : 5) Rotor dry transformer arrangement, Whose Scope ?

ANS : Generator Rotor dry out is the scope of works of contractor under these specifications. Contractor shall have to arrange all required necessary arrangements for successful completion of work till handing over including arranging the drying out equipments/Rectifiers/Heaters/Covering etc. all arrangements as required.

Que : 6) Stator frame assembly-type is bolted / welded ?

Ans : Stator segments shall be assembled at site and Stator segment joints are bolted type arrangement. The segments joints fish plates and bolts & nuts locking shall be welded by contractor at site.

Que : 7) Whether automatic brazing machine will be supplied by BHEL?

Ans : BHEL shall not provide any brazing machine/arrangements. Contractor shall have to make his own arrangement for brazing.

Que : 8) Brazing Specification. Whether manual brazing can be accepted?

Ans : Manual brazing will be acceptable, however the quality of brazing work and UT shall be to achieve the electrical conductivity of site brazed joints as per drawing requirements/instructions of BHEL Engineer at site.

Que : 9) Transformer on basing, Whose Scope ?

Ans : Erection & Commissioning of transformer is not included in the scope of contractor. However, contractor shall carry out the Materials Handling and Material Handling work of all transformers as per conditions of tender specification.

Que : 10) Material dust proof area for stator / rotor assembly in service bay. Whether BHEL will issue structural material like MS angle / channel on free issue on returnable basis?

Ans : BHEL shall not provide any structural materials.

Que : 11) Stator & Bottom bracket sole plate erection. Blue matching of foundation whose scope?

Ans : Erection of sole plates of all related equipments is in the scope of contractor under these specifications. The blue matching of sole plates/packers with respective equipment foundations/ frames as per quality requirements shall form the part of scope of work and same shall be carried out by contractor as scope of work under these specifications.

Que : 12) Supply of ceiling, D shackle for heavy lift, Whose Scope ?

Ans : Slings and D-shackles for Generator and Turbine to the extent as supplied by Manufacturing units of BHEL/Vendors as Special Erection tools will be made available to contractor free of hire charges on returnable basis for erection works only in Power House Building. For all other works of material handling etc. contractor shall have to make his own arrangements for all required T&Ps and all other necessary arrangements as required.

Que : 13) Control room & panel erection. Whose Scope ?

Ans : Erection of Control room panels is excluded from contractor's scope of work under these tender specifications. However Erection & Commissioning of Panels/Control panels which forms the integral part of system/equipments such as CO₂ systems/ H.S. system/ Oil centrifuge system/ Power Pack system/Break-jacks system, Compressor Air systems, PP set/Hydro Turbine Governing system etc. as supplied from Manufacturing Units of BHEL/Vendors, shall be in the scope of contractor under these specifications.

Que : 14) Battery installation in battery room. Whose Scope ?

Ans : Excluded from the scope of contractor under these specifications

Que : 15) Stator core/Rotor rim pressing hydraulic arrangement. Supply of hyd. Jacks & hoses whose scope?

Ans : Generator Stator core building work is not involved at site and excluded from contractor's scope. Generator Rotor Rim building shall be carried out at site by contractor under these specifications and BHEL will issue free of hire charges the Hydraulic Jacks with hoses/arrangements as received from BHEL Manufacturing units. However contractor shall provide the hoses & maintain in good working condition during execution of work and return them to BHEL in good working condition.

C) Some other clarifications raised by bidders are replied as vide Annex-A attached here with this letter (4-PAGES)

The answers/replies furnished above on bidders questions and clarification and amendment as mentioned above shall be a part of this tender specification. As such bidders are requested to consider above clarification/amendment while submitting their offers.

Bidders may please download these documents from web and enclose print out of same with technical bid duly counter signed by your authorized signatory and stamped with official seal as a token of your unqualified acceptance of this amendment.

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Dated: 15/01/2008

The Last Date for offer submission for the subject tender is **21/01/2008**. **Bidders are requested to submit their most competitive offer on or before 6:00 pm (18:00 Hrs) of 21/01/2008 at our office.** The Technical Bids will be opened on 22/01/2008 at 11:00 am in our office. BHEL will not give any further extension for offer submission.

All other terms & condition of the tender specification shall remain unchanged unless and otherwise expressly amended by BHEL.

Thanking you.

Yours faithfully

SR. MANAGER (PURCHASE)

Encls : Annex- A (4 – Pages)