



Ref: BHE/PW/PUR/SKT- CVL/564 /Amd-02 (Page-1/8)

Dated: 18/02/2008

To,

ALL BIDDERS

Dear Sir,

SUB : AMENDMENT- 02- REG

NAME OF THE WORK: CIVIL, STRUCTURAL & ARCHITECTURAL WORK FOR MAIN POWER BLOCK ALONG WITH ITS AUXILIARIES AND BALANCE OF PLANT FOR 2x250 MW EXPANSION PROJECT (UNIT Nos. 3 & 4) AT SIKKA THERMAL POWER STATION, GUJARAT STATE ELECTRICITY CORPORATION LIMITED, DISTT. JAMNAGAR, GUJARAT **T. S. No. – BHE/PW/PUR/SKT- CVL/564**

Bidder may refer "Part-II (Volume-III) Price Bid" issued against this tender. In BOQ, we have now included some new items and also revised some items considering bidders clarification. As such we are now issuing "Revised Price Bid- Part-II (Volume-II) –Revision-01"

Therefore earlier price bid "Part-II (Volume-III) Price Bid" shall be null & void. Bidders are hence requested to quote their prices in Revised Price Bid- Revision-01 enclosed with this amendment.

In case bidder quotes their price in earlier price bid, same shall not be considered as valid for price evaluation. In case bidder has specific clarification on this Revised BOQ, same shall be clarified if bidder submitted their clarification **on or before 27/01/2008**. Any clarification after 27/01/2008 shall not be considered by us. The clarifications/amendments mentioned here 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.

THE LAST DATE FOR OFFER SUBMISSION FOR THE SUBJECT TENDER IS RESCHEDULED AS 04/03/2008. Bidders are requested to submit their most competitive offer on or before 6:00 pm (18:00 Hrs) of 04/03/2008 at our office. The Technical Bids will be opened on 05/03/2008 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)

Some other clarifications are replied as below:

Clarification of queries raised by bidders in respect of BHEL's tender specs no. BHE/PW/PUR/SKT-CVL/564	
Query by Bidders	Clarification by BHEL
Splitting of Work	This shall be as per CI- 11.12 of Section-11 of Technical Bid-Part-I
Now a days for security reasons, it is very difficult to arrange and store explosives required for blasting of rock. Moreover, in each and every occasion of blasting, necessary permission has to be obtained from local competent authority as well as from Police deptt. In view of this, whether blasting will be allowed for excavation of Hard Rock or not? Please examine this proposal with ground reality and confirm accordingly.	<p>Rock excavation is to be done by suitable combination of controlled blasting and mechanised chiselling. All necessary arrangements for procurement & storage of explosives and permission for blasting from concerned explosive authorities shall be the responsibility of contractor. Customer/BHEL will issue required documents if any in this regard. Any fee for obtaining approvals shall be contractor's responsibility.</p> <p>Bidder must take utmost care to ensure that no damages occur to the surrounding properties due to his excavation activities. Bidder shall be responsible for rectification or replacement, as the case may be, in case any damages occur.</p>
Soil investigation work is under progress at site as being revealed from our sources. Please arrange to send us the bore-log details to enable us to assess the soil strata. We envisage there will be mismatch in quantities shown in BOQ for excavation of rock and excavation in ordinary soil. Please examine the quantities shown in BOQ and confirm about the probable changes.	Based on the findings of soil investigation, BHEL has reviewed the BOQ. Revised BOQ is now being provided in the Price Bid specification. This being an item rate contract, the payment shall be made as per actual measurements made at site. Percentage variation & its consequences with regard to value is stipulated in clause no. 11.8. Any new item generated during execution shall be treated as an extra item & shall be operated as per relevant contract clause.

Exposure status has not been determined as yet. As such we are not aware about the type of cement to be used in the job. Neither the type of bricks and paints are specified. Please confirm immediately about the type of aforesaid materials enabling us to find out the cost towards use of such materials.	Cement: New item of concrete for foundations (below GL) has been introduced with Sulphate Resistant cement. However all concrete above GL shall be done with OPC 43 grade Brick: Both Clay as well as Fly Ash bricks are permitted for use.
For structural steel staging work of TG deck slabs, we shall be allowed to use materials to be issued to us free of charge. However the same will be reconciled along with the structural steel sections used for steel work. BHEL to confirm	BHEL does not permit use of any permanent plant material as erection/construction material.
Clause 5.29.5	There will be no change in this clause.
Item No. 510 (a) of BOQ: Please provide us with the list and contact details of approved vendors for Concrete Penetrating Bipolar Corrosion Inhibitor (CPCI)	Proven products (successfully used in previous similar applications) will normally be approved by BHEL for use. Successful bidder will be required to furnish credentials of the product and manufacturer for approval before procurement.
Item No. 510 (b) of BOQ: Please provide us with the list and contact details of approved vendors for Epoxide Resin Based Paint (ERBP)	-DO-
Item No. 505 of BOQ - Chequered Tiles: Thickness and depth of sealing of joints is not specified. Please confirm details.	Technical details have already been provided in Part-D of Technical Specification. Please refer item no. 2.2.0 and sub-items thereunder for details.
Item Nos. 1401 & 1402 of BOQ - Non-metallic Hardner Pigmented Topping: Please provide us with the list and contact details of approved vendors/brand.	Please refer clarification on point no. 7 hereinbefore.
Item No. 1804 of BOQ - Expansion Joint in Water Retaining Structure: Size of water bar is missing. Please provide details.	All construction joints in underground structures shall be provided with 150 mm wide, 8 mm thick PVC water stop of approved make. All expansion joints shall be provided with 225 mm wide PVC water stop with maximum 25 mm gap of approved make and this gap shall be filled with bituminous mastic or other suitable material.

Item No. 2301 of BOQ - Structural Steel Work: Please confirm the type of surface preparation i.e. sand blasting or shot blasting. Please provide the specification also.		Method of surface preparation will be sand blasting.
Item No. 2314 of BOQ - Steel Work for Stationary Screen: Please provide us the sketch/drawing of stationary screen.		Drawings can be provided during execution stage.
11.6.1	Price Variation Clause: Bidder has proposed formula for steel related items in addition to the existing formula.	While formulating the PVC formula, we have considered possible variation in cost elements that has major share of the total contract value. It is practically not possible to capture all cost elements of the work in PVC formula due to enormous complexity. Thus considering the operational convenience and to absorb the fluctuations of major cost elements, the PVC formula has been framed. Bidders are requested to estimate the impact of all other cost elements in their quoted price/ rates.
5.7.0	Construction Power: Bidder has requested for two points at fabrication yard and one point in each unit	Looking at the practical requirement at site, BHEL has already indicated for availability of Construction Power at multiple points in the tender specification. BHEL has already furnished such requirements to the client M/s GSECL and they have principally agreed to provide Construction Power at multiple points. The exact spots for such points will be decided at site considering technical feasibility and project requirement.
4.2.0	Some of these clauses indicate issue of steel on weight basis, while other clauses indicate weight as well as linear measurement basis.	Steel shall be issued on weight basis only. Efforts will be made to divert the lorry/trailer directly to contractor's yard to avoid double handling; CRIV (contractor's requisition cum issue voucher) will be made accordingly. However if any major variation (beyond permissible rolling margin) is observed in issued weight vis-a-vis linear measurement, contractor shall bring the same to the notice of BHEL immediately in writing for further examination and consideration for measurement and reconciliation.
5.9.2	While measurement of work will be on the linear measurement basis. Bidder has requested that linear measurement shall only be used for issue of steel and the same method will be adopted for measurement of work done to maintain uniformity. Please confirm.	
5.10.0		
Price Bid	Bidder has asked for approved vendor list for	

Item 2307 - Electroforged Grating	Electroforged Grating, MS Bolt, High Strength Bolt and SS Liner Plate	Please refer clarification on point no. 7 hereinbefore.
Item 2309(i) - MS Bolt		Please refer clarification on point no. 7 hereinbefore.
Item 2309(ii) - High Strength Bolt		Please refer clarification on point no. 7 hereinbefore.
Item 2318 - SS Liner Plate		Item 2318 - SS Liner Plate: Supply of this material has been included in BHEL scope vide amendment-1 dated 02-Feb-2008. Hence the query has become redundant.
5.10.0	Contractor shall satisfy himself with the Quality and Quantity of the materials while taking delivery from BHEL stores.	BHEL will ensure that the steel which are in BHEL scope of supply conform to the relevant IS code as specified in the tender specification. In case of any inherent defect in such steel, BHEL will arrange for free replacement. However, if any such steel gets damaged for reasons attributable to the Contractor, the replacement shall be arranged by the Contractor. Regarding quantity of material issued, successful bidder shall satisfy himself before acknowledging receipt of materials from BHEL stores.
5.11.1	Consumption and wastage of Steel	Consumption shall be as per actual measurement. Permissible wastage @ 5% for TMT as well as for other steel. Other conditions as per tender specification.
5.12.0	Periodicity for reconciliation of BHEL issued material. Bidder has requested for reconciliation just before final bill.	Regular periodic reconciliation of steel at monthly intervals is very much possible for most of the cases. Only in some specific cases, it may not be practically possible to reconcile every month due to Work In Progress. Such cases will be jointly decided at site during execution of work. Accumulation of reconciliation activity till the Final Bill stage will lead to enormous workload at the last stage and leads to delay in processing the Final Bill, hence this is not acceptable. The periodicity of regular reconciliation shall be decided at site jointly by BHEL and Contractor.
11.9	Interest Bearing Advance	There will be no change in this clause.

5.1	Space for Labour Colony	BHEL will not provide any space or facility for labour colony. Please refer Amendment-1 dated 02-Feb-2008.
5.5.1	Space for Site Office & Stores	BHEL/Client will provide space inside the project premises.
5.5.2(A)	Open Space for stores & fabrication	BHEL/Client will provide space inside the project premises.
7.1.1	Space for Labour Colony to be added in clause 7.1.1	Since BHEL will not provide space for labour colony, proposal for inclusion in clause 7.1.1. is not relevant now.
7.1.4	Cranes provided by BHEL	It is confirmed that the cranes as listed under clause 7.1.4 will be provided free of hire charges to the Contractor. Contractor's responsibility with regard to certain inputs as stipulated in the last paragraph of that clause shall remain unaltered.
Price Bid BOQ Item No. 2309(ii)	According to the bidder, the quantity (1300 quintal) of High Strength structural bolts is very high considering that such bolts are used for column to truss and crane girder connections only.	BHEL has reviewed the matter and the quantity of this item has now been altered in the revised price bid. Latest quantity is 500 quintal.
Price Bid BOQ Item No. 2313 Stoplog Gate in CW Pump	Bidder has sought technical specification like design criteria, material of construction etc.	BHEL will provide the design criteria at appropriate stage of construction. BOQ already provides the kind of materials and type of construction for these two items.
Price Bid BOQ Item No. 2314 Stationary Screen		
Price Bid	These items involve supply of materials. For	Payment terms for 2313 & 2314 shall stand amended as following:

Item No. 2307	better cash flow and smooth execution of work, we request you to amend payment terms for these items as given below: 80% against receipt of materials 15% against completion of fabrication/erection. 5% against welding/alignment.	(1) 80% of item rates on shop inspection of fabricated gates & receipt of materials at site. (2) 10% on erection & alignment (3) 10% after grouting & trial operation. For item nos. 2307, 2308, 2309, 2317 and 2318 of the BOQ, payment terms shall remain unaltered; Secured Advance clause 11.12 shall be operated for these items.
Item No. 2308		
Item No. 2309(i)		
Item No. 2309(ii)		
Item No. 2313		
Item No. 2314		
Item No. 2317		
Item No. 2318		
Price Bid BOQ Item No. 2301	Surface preparation required for application of ROZC Primer. Bidder has stated that according to manufacturers' recommendation, the surface should be cleaned to near white metal surface (SA 2 1/2) by blast cleaning. However this requirement is missing in the item description.	Surface preparation will be done by sand blasting. The finish shall be as per paint manufacturer's recommended procedure or customary industrial practice.
Price Bid BOQ Item No. 2301	BHEL to confirm whether material for pipes conforming to IS:1161/IS 1239, Chequered Plate (IS:3052) and MS Rods will be supplied by BHEL free of cost basis at site	It is confirmed that BHEL will supply the items stated in the query free of cost at the project site. The existing clauses related to issue of materials, return and reconciliation of scrap etc for other free-issue items shall also be applicable mutatis mutandis for these items.

Price Bid BOQ Item No. 2318 SS liner plate for Hoppers	As per clause no. 3.5.0 (General technical specification, Sub-section D-5); Erection of structural steel work (Section-D, Part-I); Technical Specification, the stainless steel shall be of AISI-316 quality. While as per BOQ Item no. 2318, the SS is of AISI-304 Finished grade 2B (cold rolled, annealed, pickled and skin passed). BHEL to confirm the grade of Stainless Steel to be used for lining of hoppers.	SS liner plates shall be conforming to AISI-304.
Clause 2.14 (Vol-III)	Arbitration clause: Disputes will be resolved as per the provision of Indian Arbitration & Conciliation Act 1996.	Agreed
Clause 12.0.3 (Release of Payment)	We presume that 95% of the value of work will be released for payment. Balance 5% shall be kept in form of Bank Guarantee valid till completion of guarantee period of twelve months.	PI refer CI-12.03 which clearly states that this 5% amount may be released on pro rata basis for the value of work executed and accepted by BHEL, along with any RA Bill and onwards, subject to receipt and acceptance of bank guarantee of equal amount in BHEL's prescribed format. The BG shall be kept valid till completion of such guarantee period and an additional six months claim period. This is also subject to the condition that the contractor has started the work and also furnished/remitted the initial Security Deposit as per contract.
Drawings	Bidder has requested for detailed drawings/layout of structures etc. to help plan and organize resources	Drawings can be provided during execution stage. However Plot Plan Drawing is attached. This drawing is for tender purpose

SR. MANAGER (PURCHASE)

Encls : "Revised Price Bid- Part-II (Volume-II) –Revision-01" (One Book)