

CHECK-LIST

		Supplier	BHEL
TECHNICAL BID ENVELOPE			
1	All pages of technical specifications Signed and enclosed		
2	All pages of the "CHECK LIST CUM GENERAL TERMS AND CONDITIONS" signed and enclosed		
3	Integrity Pact Signed and enclosed		
4	Previous three years Balance Sheet including Profit and Loss account certified by Chartered Accountant submitted		
5	Third party no patent claim declaration enclosed		
6	List of Manufacturing facility, for the process as per 2.2 & 5.3.1 of Technical Spec submitted		
7	Manufacturing capacity as per clause 15 of "CHECK LIST CUM GENERAL TERMS AND CONDITIONS" submitted.		
8	List of Outsourced Processes and control mechanism submitted		
9	Process Flow Chart and controls submitted (2.2 of Technical Spec and clause 13 of "CHECK LIST CUM GENERAL TERMS AND CONDITIONS")		
10	Details of manpower, technical qualification and experience (with reference to clause 14 of CHECK LIST CUM GENERAL TERMS AND CONDITIONS) submitted		
11	Present annual capacity with details submitted.		
12	Vendor registration format (For supplier not in the corresponding Product Material Directory of BHEL) submitted		
13	Detailed list of modifications (<u>without the prices indicated</u>) submitted		
14	Proven performance data as per 2.1 of BA35014 submitted.		
15	Details of modifications suggested in BHEL Mill as per 5.2 of spec BA35014 (if applicable) submitted		
16	Quality Plan as per 5.3.3 of spec BA35014 submitted		
17	Proof of supply of 50" diameter or larger grinding rolls (used in XRP 1003 and larger size mills) <ul style="list-style-type: none"> – Purchase Order. – Material receipt/acceptance by customer document – Life achieved certified by the end user. – Coal Analysis certified by the end user. 		
PRICE BID ENVELOPE			
1	Price list with break-ups as in Annexure I to Annexure III (with all parts of the Annexures). To include all the components proposed to be added/ modified (if accepted by BHEL) as per the guidelines provided. The prices would be the basic prices (FOR Destination anywhere in India, Including Packing, Freight and Insurance). The taxes and duties should be given as % of the basic price.		
REVERSE AUCTION (IF APPLICABLE)			
1	Quotation with the final package price (TOTAL WEIGHTED PRICE OF PRODUCT (PER UNIT)) as per Annexure III (including all the taxes and duties) Multiplication factor for the Reverse Auction will be provided by BHEL before the reverse auction to include all the taxes and duties.		

Bidders can visit the site (BHEL Works) and understand fully the requirements of the tender and the product where their offered components are to be used before submitting their offer. The offers once submitted would be treated as final.

Any clarifications on the clauses and the product must be obtained before the offer is submitted.

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 1 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

PULV/PUR/RC/12/02

Enq/Collective No: K5B1L85377 — dt. 19.04.2012

DUE ON- 10/05/2012

Sl. No	BHEL Standard Terms & Conditions	Supplier confirmation	Comments / Remarks
1.	<p>a) Offer must be submitted in two bid system for the items as per Enquiry in two separate sealed covers :</p> <p>1) 1st cover Technical cum Commercial Bid, The techno-commercial bid includes two parts</p> <ol style="list-style-type: none"> Technical bid as per BA35014 Commercial bid and acceptance of terms and conditions as per the current document. <p>2) 2nd cover, Price bid. The price bid should only include the prices as per the given format (Annexure I to III). No technical or commercial aspects should be quoted in the price bid. In case any techno-commercial conditions are put in the price bid, the offer will be rejected.</p> <p>b) Each of the envelope should be clearly super-scribed with</p> <ol style="list-style-type: none"> Enquiry/Collective number : <u>K5B1L85377</u> & Due date 10/05/2012 Technical Bid (or Price Bid as applicable) <p>c) The Technical information enclosed with the tech. bid should not be enclosed in the price bid. Any technical aspect mentioned in the price-bid would be treated as null and void.</p> <p>d) If the combined offers are received in one cover or the price offered are mentioned in the technical bid, the offer would be rejected.</p>		
2.	<p><u>OFFER VALIDITY</u> The offer would be valid for 120 days from the date of the technical bid opening.</p>		
3	<p><u>PERIOD AND VALIDITY OF THE CONTRACT</u></p> <ul style="list-style-type: none"> The rate contract will be valid for <u>two years</u> from the date of signing of the contract which may be extended on mutual consent by another one year. The terms and conditions, including the prices, would be valid for all Purchase Orders released during the complete period of rate contract. No revision would be accepted unless asked for/or any changes in specification throughout the period, the rate contract is in force. The quoted rates are to be on firm basis on the Purchase Orders released during the complete contract period. It would be in force till the complete execution of all the Purchase Orders covered under this rate contract. These rates would be applicable to all the quantities as and when BHEL indicates the requirement. In the cases there is a GTP (Guarantee Trial Period) clause (refer Technical Specification) the supplier must agree to supply the grinding elements throughout the GTP period at the same terms and conditions (including the price) when called for. 		

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 2 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

Sl. No	BHEL Standard Terms & Conditions	Supplier confirmation	Comments / Remarks
4.	<p><u>PRE-BID TIE UPS</u></p> <p>There might be instances where BHEL would discuss with the bidder before submitting its quotations / bids against tenders to a customer or before the award of contract to BHEL by a customer and based on the agreement reached between BHEL and the bidder regarding the items covered under this contract, BHEL submits its bid.</p> <p>In such cases all the terms and conditions including prices of this contract would be in force till the contract is successfully completed, even if the contract to BHEL and thereby by BHEL to the contractor is awarded after the validity period of this contract.</p> <p>In these cases a special MOU will be signed between the vendor and BHEL. It would be with the same techno commercial terms and conditions as of the present contract. The price aspect would be as mutually agreed upon.</p> <p>Within 30 days of signing an MOU, 1% of the value of MOU shall be furnished by the vendor as bid bond in the form of bank guarantee or security deposit etc. in order to ensure the vendor's continued association and linkage with BHEL till the prospective customers finalise their tenders.</p>		
5.	<p><u>GUARANTEE</u></p> <p>Materials should be guaranteed for a period of 12 months from date of commissioning or 18 months from the date of dispatch whichever is earlier. This guarantee clause is to be read along with the performance guarantee (clause 6 of this document)</p>		
6.	<p><u>Performance guarantee (As per Technical specifications)</u></p> <p>a) The supplier shall give back to back guarantee as applicable for each of BHEL customer for wear life of grinding elements as per terms and conditions of this contract.</p> <p>b) The successful bidder would have to provide free replacement of grinding elements as part of Mill Warranty Shortfall Part Settlement (as per the calculation formulae provided by the BHEL's customer in the contract) if the wear life is not achieved.</p> <p>c) In all the cases where Customer insists upon BHEL to give performance bank guarantee, the same shall be submitted by the supplier on back to back basis.</p> <p>d) Wherever Customer order provides for issue of Corporate Guarantee/ Indemnity bond, the same shall be submitted by the supplier to BHEL on back to back basis.</p> <p>e) All the guarantees are applicable for all the items supplied under the rate contract. It will be in force even after the expiry of the contract.</p>		
7	<p><u>ADDITIONAL WEAR LIFE GUARANTEE</u></p> <p>There may be cases where, based on the tender conditions, additional wear life, over and above that covered in this contract is required.</p> <p>In such cases BHEL would discuss it with the successful bidder for the additional requirement based on the data made available by its customer to BHEL.</p> <p>In case the successful bidder expresses its inability to meet the requirement under the terms and conditions of the contract (including the price), BHEL reserves it's right to place the order on any of the other technically qualified vendors (Identified in BHEL's Product Material Directory / identified through Open Tender route) through a separate enquiry.</p> <p>The successful bidder too would be allowed to quote in this enquiry.</p>		

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8	<p><u>DRAWINGS AND SPECIFICATIONS</u></p> <p>Supply should strictly confirm to BHEL Drawings and Specifications. All tests should be carried out as per BHEL Drawings, Specifications and Quality Plan.</p> <p>The decision of BHEL shall be fixed and binding on the supplier on all the technical aspects/queries which may arise during the contract with respect to material, workmanship etc.</p> <p>All test certificate, guarantee certificate & Inspection report should be furnished along with supplies (3 sets). Clause-wise confirmation of specification is required.</p>		
9	Supplier shall not quote directly to BHEL's customers for O&M Spares for items it has rate contract with BHEL.		
10	<p><u>THIRD PARTY CLAIMS</u></p> <p>The bidder will have to declare that no third party has raised any patent claim against the bidder, which has gone against or is still unresolved, with respect to the product up to the date of the agreement.</p> <p>Successful bidder must further declare that in case any claims are raised during the validity of the agreement (which would be in force till complete execution of the contract) it would indemnify BHEL of any responsibility towards the claim and would reimburse BHEL for any loss suffered as a result thereof.</p> <p>It would be the responsibility of the bidder to settle such claims with the third party (claimant). In case it is unable to settle such claims, the bidder shall provide alternate technical solution which it deems reasonable and is acceptable to BHEL pending resolution of any such (alleged) claim.</p> <p>This new solution would be such that it will not violate such patents and also satisfy the terms and condition of the present contract.</p>		
11	<p>No Mill internals, components are required to be changed or modified with respect to BHEL Drawings. However minor modification for improving performance/wear life, duly agreed by BHEL is permissible, in which case suitable loading would be carried out in the package cost in terms of 'Cost to BHEL'.</p> <p>For example a minor BHEL component is to be replaced with a supplier designed/ supplied component its cost would be included in the cost of the package. This would also be the case if any component is added to the BHEL design equipment.</p> <p>Refer SPL Note given at the end of the checklist of this document for details</p>		
12	<p>The Bidder shall have a financial stability and capability to meet the financial obligations pursuant to the works covered under the contract. The bidder should submit last three year's balance sheet including the profit and loss account and net worth duly audited by a Chartered Accountant.</p> <p>The average annual turn-over of the bidder for last three years should be at least twice the value of the annualized rate contract.</p> <p>The bidder should also have a consistency in turn-over in the said last three years.</p> <p>This proposed rate contract is estimated to be about Rs 50 Crores per annum.</p>		

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13	<p><u>FACILITIES</u> The bidder must have the in house facility to</p> <ul style="list-style-type: none"> • Manufacture, • check and • control <p>all the process parameters during all the stages of the production of the grinding elements. Documentary evidence in form of the process flow chart with check and control mechanism should be submitted. Any processes outsourced must be informed and necessary approval must be taken from BHEL informing about the source and control mechanism put by the bidder.</p>		
14	<p><u>INFRASTRUCTURE</u> The bidder must have the necessary manpower, infrastructure and technical know-how to,</p> <ul style="list-style-type: none"> - Supervise during the erection and commissioning of the items supplied. - Periodic site visits (if required) for mill tuning for optimization and wear life monitoring. - Assist BHEL in fine tuning of the mills during Performance Guarantee test and prove performance with reference to the fine-ness, wear life output etc. during the same. 		
15	<p><u>CAPACITY</u> The Bidder should indicate the capacity in terms of number of sets of grinding elements per month and the percentage of the capacity that could be reserved for BHEL. One set consists of three numbers Grinding Rolls, One Set of Bull Ring segments, and any other component that the bidder offers as the part of the package as per (11) above. The present annual capacity of the bidder must be at least 10% more than the annual requirement of BHEL. The current tentative requirement of BHEL is about 300 Sets per year.</p>		
16	<p><u>PAYMENT TERMS:</u> a) For project requirement 100% payment will be made against proof of dispatch along with inspection documents within 90 days, subject to the receipt of original MRC (Material Receipt Certificate at site) / GR Clearance at BHEL stores) b) For O&M, Refurbishment R&M spares 50% of the material cost will be paid on pro-rata dispatch documents within 30 days from the date of dispatch and balance 50% of material cost with 100% taxes & duties will be paid not later than 20 days from the date of realization of payment from the customer by BHEL.</p>		
17	<p><u>INTEREST LIABILITY</u> In case of any delay in payment due to any reason, BHEL shall not pay any interest on delayed payment</p>		
18	<p><u>PENALTY</u> a) For project requirement: Penalty of ½ % per week or part there of subject to a maximum of 10% of undelivered portion. b) For O&M, and R&M spares Penalty imposed by the customer on BHEL, on “back to back” basis would be borne by the supplier.</p>		
19	<p><u>TERMS OF DELIVERY:</u> “FOR DESTINATION” anywhere in India.</p>		

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20	<p><u>DELIVERY PERIOD</u> Delivery date will be as per BHEL Purchase order. Manufacturing Lead time should be less than 90 days from the placement of the order. <u>Vendor to mention the lead time expected and rate of delivery (pieces per month)</u> Material Receipt Certificate at destination shall be considered as delivery date.</p>		
21	<p><u>EVALUATION:</u> Evaluation of offers shall be done on the basis of delivered cost to BHEL.</p>		
22	<p><u>ACCEPTANCE / REJECTION OF TENDER:</u> BHEL reserves the right to reject in full or part, any or all the offers without assigning any reason thereof. BHEL also reserves right to vary the quantities mentioned in the tender.</p>		
23	<p><u>LEGAL SETTLEMENT:</u> The contract would be governed by Indian law. Any dispute in operation of the rate contract shall be subjected to the exclusive jurisdiction of courts at Hyderabad, Andhra Pradesh.</p>		
24	<p>BHEL reserve the right to resort to "Reverse auction" and the vendor should confirm acceptance to reverse auction.</p>		
25	<p><u>RISK PURCHASE:</u> In case the successful bidder fails to supply or fails to comply with the terms & conditions of the purchase order, BHEL reserves the right to source such material/ component / equipment/ system from any other agency at the risk and cost of the successful bidder.</p>		
26	<p><u>FORCE MAJEURE CONDITION :</u> The supplier shall not be considered in default if delay occurs due to causes beyond his control such as Acts Of God, Natural Calamities, Fire, Frost, Flood, Civil War, Strike, Civil Commotion, Riot, Government Restrictions, Lockout that are not in control of supplier or Acts Of Unsurpassed Power. Only those causes that have duration of more than seven days shall be considered cause of force/ calendar/majeure. Notification to this effect duly certified by local chamber of commerce/ statutory authorities shall be given by the supplier to BHEL by registered letter. In the event of delay due to such causes the delivery schedule shall be extended for a length of time equal to the period of Force Majeure or at the option of BHEL the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of BHEL. In the event of such cancellation the supplier shall refund any amount advanced or paid to the supplier by BHEL and deliver back any material issued to him by BHEL and release facilities, if any, provided by BHEL.</p>		
27	<p><u>DELIVERY TIME IN WEEKS FROM DATE OF P.O. /LOI</u> As per the PO condition. Additionally the supplier to indicate the lead time and the number of sets per month that they would be able to supply.</p>		
28	<p><u>PACKING & FORWARDING CHARGES (IF ANY):</u> Will be borne by the supplier.</p>		
29	<p><u>EXCISE DUTY</u> as applicable.</p>		
30	<p><u>TAXES & DUTIES (CST/VAT)</u> in % wherever applicable</p>		

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 6 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

Sl. No	BHEL Standard Terms & Conditions	Supplier confirmation	Comments / Remarks
31	<u>INSURANCE:</u> will be borne by supplier.		
32	All the prospective bidders that are not in the approved vendor list of the BHEL Hyderabad, Pulverisers Division would have to fill up the Vendor Registration Format that is available on the BHEL Website (www.bhel.com) and submit to the supplier development cell of BHEL Hyderabad along with all the required attachments. Preferably with the Dun & Bradstreet Rating. The supplier would be qualified subject to a) Technical Qualification b) Acceptance of the commercial and other terms and conditions spelt out in this document c) Evaluation and Acceptance by the Supplier Assessment Committee (MISCC) (if the bidder is not an already qualified supplier)		
33	<u>TERMINATION OF CONTRACT</u> If at any time during the execution of the contract, BHEL comes to conclusion that the tenderer is not discharging his obligations according to the terms of this contract, then BHEL will be at liberty to terminate the contract after giving 15 days' notice. The tenderer shall comply with the requirement of such notice.		

Bidders must enter the appropriate phrase in each of the row of the “Supplier Confirmation” column to signify their acceptance of the respective clause.

SPL NOTE ON MODIFICATIONS (Clause 11 of the check-list)

- SNM (1) Bidders can visit the site (BHEL Works) and understand fully the requirements of the tender before submitting their offer.**
- SNM (2) Under normal circumstances, no Mill internals or components of mill is envisaged to be changed or modified with reference to the BHEL Drawings.
- SNM (3) However if the vendor requires some minor modification for improving performance/wear life it has to be clearly brought out by the supplier.
- SNM (4) In case any modification is envisaged the supplier must declare it in the techno commercial bid by entering “**MODIFICATIONS ENVISAGED**” in clause 11 of this document as well as submit it in the price calculation sheet
- SNM (5) In case there is no modifications envisaged the supplier must declare it in the techno commercial bid by entering “**NO MODIFICATIONS**” in clause 11 of this document.
- SNM (6) There would be a technical evaluation of the proposal with BHEL Engineering department.
- SNM (7) No modifications affecting the major components of the BHEL Design, interchange-ability or having a negative impact on the equipment life would be acceptable.
- SNM (8) BHEL’s Engineering (Product Design department) will look into the following aspect along with any other deemed important
- Effect of the modification on equipment performance
 - Effect of the modification on other components especially on the life.
 - Feasibility of the modifications
 - Feasibility of future engineering modifications (eg Impact on the Grinding element profile change or Diameter Change, in case BHEL needs to do it in future).

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 7 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

- e) Possibility and feasibility of replacement of the *modified components* with *standard BHEL design components* (or any other design that would have been possible otherwise) in future if requirement arises.
- SNM (9) Only the modifications that are accepted by BHEL are permissible, otherwise the vendor must offer the grinding elements without any modifications to other components.
- SNM (10) In case the modification is found acceptable, suitable costs would be added to the package cost in terms of '**Cost to BHEL**'.
- SNM (11) Additionally the supplier must provide a guarantee especially with respect to SNM(8)-a, (8)-b and (8)-c.
- SNM (12) The following methodology would be used for calculating cost to BHEL.
- Cost to BHEL = Cost of Grinding Rolls (1 Set = 3 Nos)
- + Cost of Bull Ring Segment (1 Set)
- + Sum of all Component Costs (additional/ modification)
- SNM (13) There are several possible scenarios and under them the different methodologies would be used to calculate the costs of components (additional/ modification)
- a) Addition of component(s) over and above the BHEL design – the summation of cost of the component(s) and the fixing cost for each.
- b) Replacement of a BHEL designed component with a supplier designed component.
- i. All the bidders change the same component – Cost to be treated in line with (a) above.
- ii. Only a few bidders, but not all, change a particular component
- I. Cost of the component for the bidder(s) that wishes replacement would be quoted in the price bid, including additional assembly costs (if any)
- II. For the bidders that do not want the said modification, the cost of the corresponding BHEL component would be given and the said cost would be added by the bidder in his price bid. However the said bidder would be at liberty to supply the particular component at a lesser price to BHEL Drawing. But in that case the supply of the components would be in his scope as per (I) above.
- SNM (14) These costs are to be calculated for each type of Rolls.
- SNM (15) Supplier must quote the cost of the grinding elements and the cost of each of the modification separately along with the loading factor in their sealed price bid along with all the calculations as per the attached sheet (refer Annexures I to III).
- SNM (16) The costs would be binding on both the parties throughout the validity of the contract.
- SNM (17) The modification would be generally applicable only for the "Main Equipment" grinding elements and not for spares (Initial, O&M, R&M).
- SNM (18) BHEL reserves its right to buy the Grinding Elements with or without modifications or even only the modified parts, wholly or partly, even without the main Grinding Elements.
- SNM (19) In case of Reverse Auction, if resorted to, the supplier must quote the total cost as above including the cost of addition/ modification.

REVERSE AUCTION:

- 1) BHEL reserves the right to finalise the tender through reverse auction.
- 2) In case the reverse auction is conducted, the details would be intimated to all the technically qualified bidders.
- 3) The rules and the guide lines for the reverse auction would be intimated through the service provider and would be binding on all the bidders.

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 8 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

- 4) In Reverse auction, if conducted, the price quoted would include the above impact value ie the RA would be conducted in terms of "COST TO BHEL"
- 5) In case of Reverse Auction, all the details, in a signed copy with the final bid and the break-ups would be submitted by the successful bidder within 24 hours of the successful completion of the auction to BHEL through the service provider including individual cost break-ups as per the Reverse Auction Guide lines of the service provider.
- 6) The reduction in price arrived due to Reverse Auction should be distributed by proportional reduction in each of the individual component prices.

NOTE:

- 1) BHEL reserves the right to reject the offer which is having deviations to BHEL's General Terms & Conditions.
- 2) Prices of items as below as per annexure II - to be indicated only in price bid offer in the sealed envelope of price bid.
- 3) Any deviation in penalty clause will not be accepted and in case of any reduction, an equal % of amount will be loaded for tender evaluation purpose.
- 4) In case of any discrepancy between the terms mentioned in check list and offer, the terms mentioned in the check list will prevail.
- 5) Any deviations from or additions to the above "General Conditions" require BHEL's express written consent. The general terms of business or sale of the bidder shall not apply to purchaser (BHEL). Acceptance, receipt of shipments or services or effecting payment shall not mean that the general terms of business or sale of the seller has been accepted.
- 6) Orders, agreements and amendments thereto shall be binding if made to or confirmed by the purchaser in writing. Only the purchasing department of Pulverisers Division of BHEL Hyderabad is authorized to issue the purchase order or any amendment thereof.
- 7) In case of any inconsistency or contradiction between any of the documents the order of precedence shall be
 - a) Purchase Order
 - b) LOI/LOA,
 - c) Specific agreement,
 - d) Special Condition of Contract,
 - e) General Conditions of the contract for commercial condition,
 - f) Specific agreement on technical conditions,
 - g) Special technical conditions,
 - h) General technical Conditions and
 - i) Tender/ offer.
- 8) Drawings, technical documents or other technical information received by either parties shall not be used, without the consent of the other party, for any other purpose than that for which they were provided. They may not be, without the consent of the submitting party, be used, copied reproduced, transmitted or communicated to any third party. All intellectual properties including designs, drawings and information exchanged during the contract shall continue to be the property of the submitting party.
- 9) The bidder shall provide BHEL with information in so far as it could be of importance to purchaser. It shall not reveal confidential information to its own employees not involved with the contract and its execution and delivery to third parties.
- 10) The bidder shall not be entitled to use purchaser (BHEL)'s name in advertisement and other commercial publications without prior written consent from BHEL.
- 11) BHEL General Terms and Conditions and the Reverse Auction Terms and Conditions and Guidelines are to be read along with these terms & conditions.
- 12) If a customer requires the Vendor Approval (of the bidder), the bidder must extend all the technical assistance towards the approval by the end customer whenever BHEL requires.

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 9 of 17

**CHECK LIST CUM GENERAL TERMS AND CONDITIONS- TWO PART BID SYSTEM
FOR GRINDING ELEMENTS OF BOWL MILLS (XRP-100" AND ABOVE)**

- 13) If the project specific quality plan is to be approved by the customer, the bidder must submit its manufacturing quality plan to BHEL, who in turn would forward it to the customer or its nominated agency for approval. The bidder must extend all the technical assistance and attend to queries expeditiously to obtain the approval of the Quality Plan.
- 14) In the cases the Project Specific Quality Plan is approved by customers, the supply should be made accordingly in line with it.

INTEGRITY PACT:

- 1) The Integrity Pact duly signed by the bidder and the authorised official of BHEL will form part of the contract.
- 2) The proforma of the integrity pact is issued along with the bidding document and shall be returned along with the technical bid duly signed by the same signatory who is signing the bid, and is duly authorised to signed the bid. All the pages of the integrity pact must be signed by the above mentioned signatory. Failure to enclose the duly signed integrity pact along with the bid document shall lead to outright rejection of the bid.
- 3) If the bidder is disqualified from the tender process prior to award of the contract according to the provisions under the integrity pact BHEL shall be entitled to demand and recover from bidder the liquidated damages as per the provisions of the Integrity Pact.
- 4) If the contract is terminated according to the provisions of the Integrity Pact or if BHEL is entitled to terminate the contract according to the provisions of the Integrity Pact, BHEL shall be entitled to demand and recover from bidder the liquidated damages as per the provisions of the Integrity Pact from the pending bills/ bank guarantees or security deposits.
- 5) The bidders that had been disqualified due to violation of the Integrity Pact during the tender process or during the operations of the contract will be subject to actions as per the relevant BHEL business rules in force AA/MM/SB/01 "Suspension of business dealings with suppliers/ contractors" which could include termination of whole or part of the contract along with other punitive measures.

ANNEXURE – I
Estimated Annual Requirement

SL No	Material Code (Grinding Roll)	Type of Roll	Mill Type	No of Sets main (TM)	No Sets Spares (TS)	No of Sets main as Fraction of Total TM / (T1+T2)	No of Sets Spares as Fraction of Total TS / (T1+T2)
1	BA9735014017 BA9735014033	Grinding rolls + B R Segments 50"	1003 XRP	8	67 (mandatory) + 54	0.0260	0.3929
2	BA9735014114 BA9735014130	Grinding rolls + B R Segments 62"	1043-1103 XRP	88	58 (mandatory)	0.2857	0.1883
3	BA9735014211 BA9735014254	Grinding rolls + B R Segments 62"	HP 1103	15		0.0487	0.0000
4	BA9735014416 BA9735014432	Grinding rolls + B R Segments 72"	HP 1203	10		0.0325	0.0000
5	BA9735014238 BA9735014254	Grinding rolls + B R Segments 62" (Higher Thickness- Small Bore)	HP 1103	8		0.0260	0.0000
Total				T1= 129	T2= 179	0.4188	0.5812

NOTE:

1. The Number of sets mentioned above is tentative and it may vary from the actual requirements.
2. $T1 = \Sigma (TM)$ and $T2 = \Sigma (TS)$

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012
Page 11 of 17

ANNEXURE – II
PRICE BID - PART-A
COST OF MODIFICATIONS

Mill Type	Item Sl No	Item Description	Supplier ref. Drawing No.	Supplier ref Code (if any)	Type of Change	Cost of change (To BHEL)		
						Material Cost	Assembly Cost	Total
1003 XRP	01							
	02							
	03							
	04							
TOTAL FOR 1003 XRP								
1043-1063 XRP	01							
	02							
	03							
	04							
TOTAL FOR 1043/ 1063 XRP								
1103 XRP	01							
	02							
	03							
	04							
TOTAL FOR 1103 XRP								
1103 HP	01							
	02							
	03							
	04							
TOTAL FOR 1103 HP								
1203 HP	01							
	02							
	03							
	04							
TOTAL FOR 1203 HP								

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GUIDELINES FOR ANNEXURE-II

- II(1). Only the list of the BHEL's components that are to be modified (***BHEL Design*** components replaced with ***Supplier Designed*** components), and the modifications are acceptable to BHEL, will be circulated to all the bidders along with the ***BHEL Estimated Price*** of each individual component.
- II(2). Each of these components should be entered separately in a separate row of the above table. In case all the components are not accommodate-able, the number of rows could be increased keeping materials of a particular **Type of Mill** together.
- II(3). Each **ROW** would designate a single replaceable item and should include the connecting fasteners also.
- II(4). Normal fastening and welding will not be reflected in the "Assembly Cost" however in case special procedures (eg hard facing or lining) is necessary, the material for the same (including special electrodes) will be under bidder's scope.
- II(5). In case the bidder wishes to change/ modify/ add a component then,
- a. If the bidder wishes to replace a component of BHEL with this particular component (of bidder's design) then
 - Item description = Description (or the name of the bidder's component eg *Reverse Cone*)
 - Supplier Drg No = Internal Drawing No of the bidder
 - Supplier ref Code = any unique reference code that the bidder uses as a designation of the component
 - Type of change = ***Replacement of.....(BHEL Component name)*** eg *Replacement of Inverted Cone*
 - Material Cost = Price of their (bidder's) component.
 - Assembly Cost = the **additional** cost of fixing if any (refer clause II (4) above)
 - b. If the bidder wishes to add a component of his design without taking out any component of BHEL design, for this component
 - Item description = Description (or the name of the supplier's component eg *Reverse Cone*)
 - Supplier Drg No = Internal Drawing No of the bidder
 - Supplier ref Code = any unique reference code that the bidder uses as a designation of the component
 - Type of change = ***Addition***
 - Material Cost = Cost of their (bidder's) component.
 - Assembly Cost = the **additional** cost of fixing.
 - c. If the bidder doesn't want to change the particular component of BHEL design nor wishes to supply it, for this component
 - Item description = Description (or the name of the component) as provided by BHEL as per II (1) above.
 - Supplier Drg No = Drawing No as provided by BHEL as per II (1) above.
 - Supplier ref Code = material Code, as provided by BHEL as per II (1) above.
 - the type of change = ***BHEL Scope***
 - Material Cost = Cost as given by BHEL as per II (1) above
 - Assembly Cost = 0.0 (Zero)

In this case, the deliverable package will not include the said component and will be under the scope of supply of BHEL.

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 13 of 17

- d. If the bidder doesn't want to change the particular component of BHEL design but wishes to supply it, for this component
- Item description = Description (or the name of the component) as provided by BHEL as per II (1) above.
 - Supplier Drg No = Drawing No as provided by BHEL as per II (1) above.
 - Supplier ref Code = material Code, as provided by BHEL as per II (1) above.
 - the type of change = **BHEL Drg Our Scope**
 - Material Cost = Bidder's cost estimate
 - Assembly Cost = 0.0 (Zero)

In this case, the deliverable package will include the said component. The relevant drawings will be provided to the supplier in line with the BHEL practices.

- II(6). Each of the components that has been covered under the above clause II (1) would form a separate row in the above table. Each of these items would be treated in line with either of II(5)a, II(5)b, II(5)c or II(5)d. If the bidder replaces only a part of the list of the components, then for the cases it wishes to continue with the BHEL design, the particular components would be treated in line with II(5)c or II(5)d.

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ANNEXURE – II
PRICE BID - PART-B
STANDARD WEAR ELEMENTS

Var No.	Mill Type	Item Description	Drawing No.	Matl. Code	Price
1	1003 XRP	Grinding Roll 50” (1 No.)	16100090057	BA9735014017	
2	1003 XRP	Grinding rolls 50” (3 pcs= 1 set)	16100090057	BA9735014025	
3	1003 XRP	Bull ring segment set	26110090116	BA9735014033	
11	1043-1103 XRP	Grinding rolls 62” (1 No.)	16100401317	BA9735014114	
12	1043-1103 XRP	Grinding rolls 62” (3 pcs= 1 set)	16100401317	BA9735014122	
13	1043-1103 XRP	Bull ring segment set	26110402603	BA9735014130	
21	HP 1103	Grinding roll 62” (1 No.)	26111002902	BA9735014211	
22	HP 1103	Grinding roll 62” (3 pcs= 1 set)	26111002902	BA9735014220	
23	HP 1103	Grinding roll 62” (Small Bore) 1 No.	26101003169	BA9735014238	
24	HP 1103	Grinding roll 62” (Small Bore) 3 pcs= 1 set	26101003169	BA9735014246	
25	HP 1103	Bull ring segment set	16111001564	BA9735014254	
41	HP 1203	Grinding roll 72” (1 No.)	26112002903	BA9735014416	
42	HP 1203	Grinding roll 72” (3 pcs= 1 set)	26112002903	BA9735014424	
43	HP 1203	Bull ring segment set	16112001565	BA9735014432	

NOTE: The Price is for

- Each Grinding Roll for Grinding Roll whenever the numbers are indicated as 1 No (eg Variant Nos 1, 11, 21,...)
- For a set of Grinding Rolls (3 Nos of Grinding Rolls) whenever the numbers are indicated as 1 Set (eg Variant Nos 2, 12, 22,...)
- Set of Segments for Bull Ring Segments.

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PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 15 of 17

ANNEXURE – II
PRICE BID PART- C
CONSOLIDATED PRICES

SL No	Material Code	Type of Roll	Cost of Grinding Roll Per piece (GR)	Cost of bull Ring Segment per set (BR)	Cost of Main Wear Elements GB = 3 x (GR)+(BR)	Modified Additional Component Cost ⁽¹⁾ Per Mill Qty (MOD) from II(part A)	Total Cost to BHEL PC = 3 x (GR)+(BR)+(MOD)
1	BA9735014017 BA9735014033	Grinding rolls + B R Segments 50"					
2	BA9735014114 BA9735014130	Grinding rolls + B R Segments 62"					
3	BA9735014211 BA9735014254	Grinding rolls + B R Segments 62"					
4	BA9735014416 BA9735014432	Grinding rolls + B R Segments 72"					
5	BA9735014238 BA9735014254	Grinding rolls + B R Segments 62" (Higher Thickness- Small Bore)					

NOTE

⁽¹⁾ Details in Annexure II part A

SIGNATURE AND SEAL

PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 16 of 17

ANNEXURE – III
PRICE CALCULATIONS FORMAT

Page -1

Sl No	Material Code		Type of Purchase	Weightage Factor (A)	Total Cost to BHEL (Total package) (PC) from Annex II part (C)	Total Cost to BHEL (Main Wear Elements only) (GB) from Annex II part (C)	Weighted Price of Modifications (W) = (A) x (GB) or (W) = (A) x (PC)
1	BA9735014017 BA9735014033	Grinding rolls + B R Segments 50"	Main	0.0260			
			Spares	0.3929			
2	BA9735014114 BA9735014130	Grinding rolls + B R Segments 62"	Main	0.2857			
			Spares	0.1883			
3	BA9735014211 BA9735014254	Grinding rolls + B R Segments 62"	Main	0.0487			
			Spares	0.0000			
4	BA9735014416 BA9735014432	Grinding rolls + B R Segments 72"	Main	0.0325			
			Spares	0.0000			
5	BA9735014238 BA9735014254	Grinding rolls + B R Segments 62" (Higher Thickness- Small Bore)	Main	0.0260			
			Spares	0.0000			
TOTAL WEIGHTED PRICE OF PRODUCT (PER UNIT) =							

NOTE:

- The “MAIN” and “SPARES” are used only as a nomenclature to distinguish between -
 - The “MAIN” signifies the Mills where the grinding element would be fixed along with the “Modifications” if applicable
 - In “SPARES” only the Grinding Elements are envisaged without the “Modifications”
- The combinations shown are indicative and the most probable. However situations may demand other grinding Roll/ Bull Ring Segments/ Modification (if applicable) combinations for which the costs would be arrived at from Annexure II (Parts A and B)

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PULV/PUR/RC/12/02 DATE: 25/03/2012

Page 17 of 17