

**CLARIFICATION BY BHEL AFTER PRE-BID MEETING ON 28/02/2008 FOR 1X345.MW CCPP, RIL, NAGOTHANE**

	TS : BHE/PW/PUR/RILNG-CVL/560	ANNEXTURE-C
Query no.	Details of Queries	BHEL Reply
1	<b>Approved vendors list for:</b> Stoplog gates, Stationary Screen, sliding bearing, Sanitary ware, fittings & fixtures, roofing & cladding, electroforged gratings, HSFG bolt, GI pipes, Non shrink grout, Water proofing compounds, sealing compounds, Elastomeric water proofing membrane, glass and paints etc.	(i) BHEL is not having registered/ approved vendor list for supply of any civil items (other than reinforcement & structural steel). Also customer specification does not stipulate /specify any such list. Therefore contractor has to take sample approval for all the bought out items alongwith manufacturer's brochure/catalog for approval of BHEL/RIL before procurement. (ii) Design, Supply,E&C of Stop log gate and Stationary screen/Trace rack is in the scope of contractor.Civil inputs required for designing the gate shall be given in approved civil drawing of CW Pump house. Details of one of the manufacturer for stop log gate who has recently supplied gates and screen for our EPC Project 1x500MW Sanjay Gandhi TPS MPPGCL Birsinghpur is as below:
		<b>Regd. Office :</b> M/s Pardeep Structural Development Pvt. Ltd. 10/30, Nagendra Nath Road, Dumdum Nagar Bazar, Kolkata- 700028 <b>Ph. 033-25517599</b> <b>City Office :</b> M/s Pardeep Structural Development Pvt. Ltd. 35,Netaji Subhas Road, IInd floor , Kolkata- 700001 <b>Ph. 033-22214767</b> This information is being given only for idea of the Bidder and BHEL shall not take any responsibility on this matter.
2	<b>Type/Grade of Cement :</b> While type/grade of cement has been specified in respect of St no. 201,202,203(I),204,&205as OPC Gr. 43/53and St no.203(II)as SRC; it has not been specified for all other items e.g. <b>concreting,masonry,plastering,flooring works</b>	Type of Cement for item of works including concrete, masonry, plastering, flooring etc. shall be OPC( Ordinary Portland Cement ) except for underground reinforced cement concrete wherein SRC ( Sulphate Resistant Cement ) shall be used.Grade of Cement shall be <b>43/53 .Accordingly item correcetd in BOQ ( Rev-02 )</b>
3	<b>Type of Brick:</b> Type of Brick i.e. whether Kiln Burnt Clay or Fly Ash Brick has not been specified.	<b>Type of Bricks shall be locally available best quality</b> Kiln Burnt Clay Bricks having minimum crushing strength of 5.0N/mm2. Bricks below 5.0N/mm2 shall not be acceptable.
4	<b>Stop Log Gates,Stationary Screens and sliding Bearing:</b> These are not standard items and therefore require either GA Drgs/detailed specification for vendor to understand specific requirement of the client for proper desinging and pricing.	Reply is same as point no. (1) above. Specification of Gates is as per the description given in item no. 2310 & 2311
5	Following clarifications/confirmation on <b>Vol. III Revised Rate Schedule</b> Pl.Specify Size	

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<b>Query no.</b>	<b>Details of Queries</b>	<b>BHEL Reply</b>
<b>5.1</b>	St. no. 911, Aluminum glazed Partition: Pl. clarify necessity of lock with handle on both sides in a fixed partition	No lock is needed for Aluminum glazed partition.The relevant item corrected accordingly in revised BOQ(Rev.-02)
<b>5.2</b>	St.no. 1408, 25mm th. Terrazo Tiles in skirting/dado/risers/trades pl.clarify higher thickness of 25mm as compared to flooring thickness of 20mm	Thickness of Terrazo Tiles in skirting/dado/risers/trades shall be 20mm.The relevant item corrected accordingly in revised BOQ(Rev.-02)
<b>5.3</b>	St.no.1409, 25mm th. Acid/alkali resistant vitreous tiles	Minimum size of tiles shall be 100mmx200mm. The relevant item corrected accordingly in revised BOQ(Rev.-02)
	St.no. 1410, 20mm th.Polished Kota Stone Flooring	Minimum size of Polished Kota Stone shall be 600mmx600mm.The relevant item corrected accordingly in revised BOQ(Rev.-02).
	St. no. 1412-20mm th. Polished Granite Stones Flooring	Minimum size of Polished Granite Stone shall be 600mmx600mm. The relevant item corrected accordingly in revised BOQ(Rev.-02)
	St. no. 1414-12mm th. Polished Granite Stones Platform	Polished Granite Stones in Platform shall be of full size matching to platform .
<b>5.4</b>	St. no. 1423-Epoxy coating on operating floor-Pl. specify type of operating floor finish and thickness of epoxy coating	Operating floors shall be of <b>heavy duty Corborandum stone tiles as per item no. 1405. Thickness of epoxy coating shall be min. two coats as per Manufacturer's recommendation.</b>
<b>5.5</b>	St. no. 1804-25mm th. Bitumen impregnated fibred joint in filling board; Pl. specify width of the joint as the items is to be Quoted on RM basis	Unit of measurement for item no. 1804 is corrected as <b>Sq.M.</b> in place of RM. The relevant item corrected accordingly in revised BOQ(Rev.-02)
<b>5.5 a</b>	St no.1801	The thickness of PVC water stopper shall be 8 mm.
<b>5.6</b>	St. no. 1815(I) to (III)- <b>LDPE</b> Pipes;Pl. specify pipe thickness or class of pipe	<b>Please refer clarifications under General Points no. (8) below</b>
<b>5.7</b>	St. no. 2001-GI Barbed Wires in fencing; Pl. specify no. of strands/runs, no. of ply and spacing of barbs in the barbed wire to be used,since the items is required to be quoted on sq.m basis	<b>Please refer clarifications under General Points no. (9) below</b>
<b>5.8</b>	St. no. 2003-GI Barbed Wires in chain link fencing; Pl. specify no. of ply and spacing of barbs in the barbed wire	<b>Please refer clarifications under General Points no. (9) below</b>
<b>5.9</b>	St. no. 2105 to 2111 - GI Pipe; Pl. specify class /duty of the pipe to be used	<b>GI Pipe shall be of Class "B"</b>
<b>5.10</b>	St. no. 2219 - CI Manhole cover width frame; Pl. specify units Weight	<b>CI Manhole cover shall be of Class - "Heavy Duty". No unit weight is needed as this is an standard item as per size.</b>

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Query no.	Details of Queries	BHEL Reply
5.11	St. no. 2301 - Sand blasting of fabricated structure; We understands that sand blasting is banned in India Pl. confirm if SHOT blasting is to be considered in place of sand blasting	<b>As per Customer's specification surface preparation is to be done by sand blasting. Surface preparation shall be done as per Section C of Technical specification Section D4- 6d clause no 10.2. Sand blasting shall be done in enclosed enviornment.</b>
1	<b>Queries on items of Revised Price Bid</b>	
1.2	St. no. 117 Back filling with good soil from compulsorily excavated earth stock Pl. clarify the term compulsorily excavated earth	Means - Back filling to be done using available excavated earth stacked within a lead of 1km. Available excavated earth - means good/selected earth generated from excavation and stacked for backfilling purpose.
1.3	St. no. 901 to 908,911&912 - Doors Windows Ventilaters Partitions etc. Pl. furnish sizes and details for proper pricing	At this stage it is not possible to give this much detail information & same will be provided in approved Arch. Drawing during execution of work. However Unit of measurement are in Sq.m. & hence it makes no difference in assessing rates.
1.4	St. no. 910 - Aluminium Works in Doors Windows Ventilators & Partitions etc. item of glazing/paneling to be measure elsewhere does not exist in BOQ.	<b>Item No. 910 is removed from BOQ.(Refer Rev.-02): Please refer clarifications under General Points no. (4) below.</b>
1.5	St. no. 1415 to 1418 - 7mm th. Vitrified ceramic tiles of size 300mmx300mm or 600mmx600mm Pl.confirm one size as there is huge difference in rate of the two sizes specified also Pl. clarify unpolished variety is it <b>mat finish</b>	<b>Vitrified ceramic tiles shall be of size 300mmx300mm. It is clarified that unpolished variety is of mat finish only.</b>
1.6	St. no. 1422 - 2mm th. Antistatic PVC floor Pl. provide drawing specifications	<b>No drawings is available.Material shall be as per manufacturers specification. Contractor has to take sample approval at the time of execution.</b>
1.7	St. no. 1802 -Blown bitumen in expansion joints Pl. specify grade of blown bitumen	<b>Bitumen of grade 80/20 to be used for this purpose.</b>
2	<b>Vendors List for various items</b>	<b>As above</b>
1	Item no. 203(II) -SRCement as per revised BOQ	Type of Cement for item of works including concrete, masonry, plastering, flooring etc. shall be OPC except for undergrond Reinforced Cement Concrete wherein SRC shall be used.Grade of Cement shall be <b>43/53</b> .

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2	item no. 402-Epoxy coating in reinforcement steel	<b>As per item no. 401, 402 of revised BOQ(Rev-02), BHEL will supply HCR-M Grade Fe 500 reinforcement steel <u>free of cost</u>.</b> Hence bidder shall quote only a labour rate for cutting, bending, placing including consumables like binding wire and staging etc. It is further clarified that lower Dia. of reinforcement bar (8mm, 10mm and 12mm) may be supplied in coiled form. The quoted rate shall include cost of decoiling by mechanical means wherever required.
1	Splitting of BOQ structure wise	No splitting is possible. It is a composite tender.
2	Rock Blasting	Customer/RIL will give permission for <b>controlled Blasting only</b> . Contractor has to make all other arrangement like obtaining permission from explosive department for storage & usage of explosives including required safety measures, fee etc. if any. RIL/BHEL will provide documents/drawings/letters as required by statutory authority. <b>Bidders has to submit detail procedure/methodology, equipment to be used &amp; plan for controlled blasting in their offer itself. Bidders may tie up with local licensed blasting agencies available in that region for blasting work/ liaisoning job etc. to start the work at the earliest. Since the monsoon is severe in that area, rock excavation for all major foundations has to be completed before onset of monsoon. For this, rock blasting has to be started within 7 days of issue of LOI.</b>
3	<b>Soil investigation &amp; bore log details</b>	Soil Investigation is under progress. However few bore log details are enclosed only for idea to bidders.
4	Type of exposure, type of cement & type of bricks	Type of Exposure is severe. Type of cement and bricks shall be as above.
5	Free issue of structural for STG deck staggering	No. It is to be arranged by Contractor.
6	<b>Taxes &amp; Duties</b>	Shall be as per tender specification.
7	Type of reinforcement & scope of Epoxy coating	As above
8	Chequerred tiles- thickness & depth of ceiling of joints (item no. 508)	Depth equivalent to thickness of tiles i.e. 22 mm & thickness of joints not exceeding 3 mm. Size of the tiles shall be 250X250 mm/300X300 mm
9	List of approved vendors for non metallic hardner	As above
10	Size of water bar in expansion joints	Water bar shall be 225 mm wide and 8 mm thick with center bubble.
11	Surface preparation of structural steel before painting (item no. 2301)	As above

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Query no.	Details of Queries	BHEL Reply
12	Drawing for stationery screen item no. 2314	As above
1	SRC for item no. 203(II) as per revised BOQ	As above
2	Fire proof steel door as per item no.907-TAC approval	Fire proof steel door shall be as per TAC norms/specification & shall confirm to IS:3614 (Part I & II). <b>TAC approval not needed.</b>
3	Use of Locally Available Bricks for item no.1001to1003	<b>As above.</b>
4	GI Barbed wire fencing (item no. 2001-no. of straind	<b>As per general point 9.</b>
1	Area for labour camp free of cost outside plant premises	Yes. Area for labour camp shall be provided free of cost outside of plant premises. All other arrangement shall be done by contractor.
2	Area lighting in work area	Yes. Spot lighting of work area is to be arranged by contractor. General illumination of project area shall be done by BHEL.
1	Revised quantity of disposal	<b>As per revised BOQ (Rev-02)</b>
2	Item no. 203(ii) for M-30 Grade concrete with SRC	<b>As above.</b>
3	Revised quantity of M-30 Grade concrete	<b>As per revised BOQ (Rev-02)</b>
4	Deletion of item no.910	<b>Deleted.</b>
5	Item no. 1405 for heavy duty carborundum tiles	This item shall be operated mostly in TG floor & other operating floors
6	Size of vitrified ceramic tiles from item no. 1415 to 1418	Size of the tiles 300mmx300mm of Grade-I quality.
7	Correction in item no. 1804 for unit	Unit of measurement shall be Sq.M in place of RM
8	Class of LDPE Pipe (item no.1815 )	LDPE Pipe shall be of medium duty having minimum wall thickness 3 mm
9	GI Barbed wire fencing (item no. 2001)	Spacing of Barbed wire shall be 150mm c/c (spacing between the runs) followed by two diagonal ties between the post.For further details regarding barbed wire Technical Specification Section-D,Sub-section D-17 may be referred
10	Sanitary ware	All sanitary ware shall be Hindustan make or equivalent as per sample approval at site.
11	Excavation in Hard Rock-Measurement	Measurement shall be done as per IS:1200
12	Fencing Post	Structural Post for barbed wire fencing/chain link fencing shall be executed under relevant items for structural steel works(Item no. 2301)
13	Item no.-128 rip-rap on the slope	This is a dry stone pitching without filter bed
14	Item no.-2002 MS Gate	Rate shall be inclusive of painting. Paint specification shall conform to structural item no. 2301, 2302
15	Inclusion of New Items	Item no.-1816 and 1817 for PVC Pressure release valve in water retaining structure are included