

Corrigendum 1 dated Mar 02, 2016 to Tender Specification BHEL PSSR SCT 1603

A) Some of the bidders had raised queries in the published tender specification. The Clarifications issued by BHEL are furnished below:

<u>No</u>	<u>Reference clause</u>	<u>Existing provision</u>	<u>Bidder's query</u>	<u>BHEL's clarification</u>
1)	Price bid Ref.No. 111, 200, 2427	Use of sand	Whether M sand can be used Use of manufactured Sand in place of river sand. Can we use M-sand, in place of natural sand, as Government of Karnataka has allowed to make use of M-sand	Bidder to quote as per tender. Subsequently, at the time of execution, if customer permits to use manufactured sand, the same shall be dealt as supplementary item as per the provisions of contract.

<u>No</u>	<u>Reference clause</u>	<u>Existing provision</u>	<u>Bidder's query</u>	<u>BHEL's clarification</u>
2)	Price bid Ref.No. 207 :	Providing and laying Design Mix cement concrete confirming to IS:456 & IS 10262-2009 for..... .....	In Item description, few lines appears to be missing. Kindly provide us complete description.	Complete description is as follows, Providing and laying Design Mix cement concrete confirming to IS:456 & IS 10262-2009 for reinforced concrete works of grade M-30 Grade in machine foundations for TG, Gas Turbine, ID/FD/PA fans, BFP, Coal mills at all elevations below/above finished floor level except TG deck and top decks supported over vibration isolation system including addition of suitable plasticizer conforming to IS 9103(latest) to achieve a slump more than 125mm in concrete as per <b>manufacturer's recommendation with 20 mm nominal size graded aggregate in concrete all complete as per specification &amp; drawing.</b>
3)	Price bid Ref.No. 209 :	Provision of Ice for Controlling of temperature in concrete	Kindly refer to item no.209 where controlling of temperature shall be maintained after providing Ice as per requirement. It is understand that provision of Ice plant is not mandatory. Ice block may be brought at site and put to water Vat. -Please confirm.	Tender condition prevails

<b>No</b>	<b>Reference clause</b>	<b>Existing provision</b>	<b>Bidder's query</b>	<b>BHEL's clarification</b>
4)	Price bid Ref.No. 211	Providing and encasing of structural steel member.....	whether contractor has to provide structural steel member	Bidder to quote as per BOQ.
5)	Price bid Ref.No. 211 and 1209	Providing and encasing of structural steel member.....	Welded wire mesh/chicken wire mesh required for encasing will be paid in same item or will be paid extra, Please. Clarify	Please follow respective item description.
6)	Price bid Ref.No. 304		Only depth of block out / pockets are mentioned, but length & width of block out is not mentioned the same be given / mentioned.  Ref no.304.0, Item may please be elaborated	Bidder to quote as per BOQ.
7)	Price bid Ref.No. 402		Whether only labour portion is considered or not	Bidder to quote as per BOQ.
8)	Price bid Ref.No. 705		In Ref. no 705.0, the unit considered for PVC & UPVC is quintal, but whereas the unit will be Rmt	Bidder to quote as per BOQ.
9)	Price bid Ref.No. 701, 704, 705, 1821 etc	Scope of supply of steel materials by Contractor Cl.no. 1.14.1, Page 79 Vol-1, Book-1	Please confirm that structural steel, MS bars etc., for minor quantities need to be supplied by Contractor for embedment, inserts and similar such items wherever specifically mentioned in BOQ item description (eg., item sl.no. 701, 704, 705, 1821 etc.,)	MS steel supply is in the scope of bidder. Item description clearly indicating the same.
10)	Price bid Ref.No. 910		Ref no.910.0, Aluminium composite panel is available in the is 3 mm & 4 mm, Shall we use the	Bidder to quote as per BOQ.
11)	Price bid Ref.No. 1007		whether only mortar & chicken mesh is to be considered for quoting	Bidder to quote as per BOQ.

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12)	Price bid Ref.No. 1209		whether this item is inclusive of steel beam or not	Steel beam is not in scope of bidder. Item description is clear.
13)	Price bid Ref.No. 1602 to 1606,	False ceiling / Under deck Insulation	In item no. 1602 to 1606, Under deck insulation activity is included. We would request you to provide separate item for under deck insulation. Kindly Confirm.	Bidder to quote as per BOQ.
14)	Price bid Ref.No. 1810	Providing, laying and fixing rails and guide rails in concrete for transformer, rail track including cutting of rails, joining of rails, anchoring lugs etc all complete.	Specification for rails and guide rails are not specified.  Please provide the material specification and also please specify welding is required for joining the rails or not.	Rail section of transformer yard area will be @ 52kg/m. Generally welding is not required for joining the rails under item no 1810.
15)	Price bid Ref.No. 1821	Supplying, fabricating, erecting in position and Testing / examining bolted and / or welded Structural steel work for stationary screens ..... ..... as per BS 3416 etc. All complete.	Specification for stationary screens is not specified. Please confirm.	Material will be carbon steel. Item description is very clear and self-explanatory. Quantity is in tonnage. Further details will be available during execution at site.

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16)	Price bid Ref.No. 2301	Fabrication and erection of structural steel with mild steel rolled section..... Preparation of Fabrication drawings.	(a) Appointment of separate agency, approved by BHEL for review and approval of fabrication drawings in consultation with BHEL. (b) Please provide the list of BHEL approved agencies for preparation of detailed drawings to facilitate the bidder to quote competitive rate.	Generally it has been finalized after the award of contract. The list of agencies shall be furnished by vendor and BHEL shall approve them, based on their past experience, quality of works and their work credentials submitted.
17)	Price bid Ref.No. 2601	Cutting of trees having girth more than 300 mm measured at a height of 1m above ground level ..... ..... within a lead upto 1km etc all complete.	a) During site visit it is understood that the trees available all around the entire site will be cut by project owner before work commencement and forest clearance has been obtained by Project owner, in this regard. -Please confirm the above.  b) In view of above item 2601 related to Cutting of trees 1250 nos. may not be operating. -Please confirm the same.	Bidder to quote as per BOQ. However, payment shall be operated on item rate basis for the executed quantity as per the requirement during project execution.

<u>No</u>	<u>Reference clause</u>	<u>Existing provision</u>	<u>Bidder's query</u>	<u>BHEL's clarification</u>
18)	Price bid Ref.No. 2603, 2608, 2609, 2610.		<p>A) Please confirm that measurement for item no. 2603 shall be taken in excavation area only.</p> <p>B) Please confirm that measurement for Item no. 2608 &amp; 2609 shall be taken in filling area only.</p> <p>C) For Item no.2610, please confirm that</p> <p>i) The unserviceable material / earth are to be disposed at designated place within project premises only.</p> <p>ii) Item no. 2610 is related to item no. 2603, 2608, 2609 only.( Item no 603→1,22,625 Cum= Item 2608→36275 Cum+ Item 2609 → 36275 Cum + Item 2610 → 50075 Cum)</p> <p>In view of above, the item description for extra over item required to be modified. Kindly review and confirm.</p>	<p>A. Item 2603 is for Excavation area only.</p> <p>B. Item 2608 &amp; 2609 for filling area only.</p> <p>C. Item no. 2610</p> <p>i. The unserviceable material / earth are to be disposed at designated place within project premises.</p> <p>ii. Item description shall be read as follows: Extra over Ref No. 2603, 2608 &amp; 2609 for carriage of unserviceable material / earth for every 1 km or part thereof beyond an initial lead of 1km.</p>

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19)	Techno commercial bid Volume – I Book - I Notice Inviting Tender Clause no 1.0 (v)	Extension of due date for offer submission	<p>The proposed work is involved with a large number of specialized vendor based items of substantial value. Hence, after obtaining the detailed offers from such specialized / approved vendors after exchange of clarifications, if any, adequate time for preparation of bid will be essentially required. Hence, after obtaining pre bid clarifications, subsequent to pre-bid meeting (to be held on 17.02.2016), submission of reasonable and Zero Deviation bid, with correct input costs, within the stipulated due date of 29.02.2016, may not be practically feasible. In view of above, we would request you to kindly arrange to extend the due date of bid submission upto 15.03.2016.</p> <p>Time extension of 20 days from 29.02.2016 for bid submission is requested</p> <p>It is requested to extend the bid submission date up to 15/03/2016.</p> <p>It is requested to extend the bid submission date up to 07/03/2016.</p>	Refer corrigendum 1 dated Feb 25, 2016 wherein it has been mentioned that due date for offer submission is extended to <b>Mar 07, 2016</b>

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20)	Notice Inviting Tender Annexure -1 PRE-QUALIFICATION CRITERIA - Financial Clause C-3 :	<b>Profit</b> Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three Financial Years defined in 'C-1 above based on latest Audited Accounts.	We request you to amend "Bidder must have earned cash profit in any one of the <b>Five Financial</b> Years as applicable in the last <b>Five Financial Years</b> based on latest Audited Accounts.	Tender conditions prevails
21)	Notice Inviting Tender Annexure -1 PRE-QUALIFYING CRITERIA - Technical Annexure 3	<u>Definition:</u> <u>Consortium partner:-</u> Consortium partner is the one who qualifies against any one or two of the conditions specified under Clause B.2.2, B.2.3.		The word "or two" in the definition for Consortium partner is deleted since it is redundant. It is revised as below: Consortium partner is the one who qualifies any one of the conditions specified under Clause B.2.2, B.2.3.
22)	TCC Volume IA, Part-I Chapter - III Clause 1.3.3	Land for storage and fabrication yard	It is requested to provide hard crushing land for storage of material, office building, canteen	Available land shall be provided in as is whereis condition. Any development required for the land is within the bidder's scope as already given in tender.

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23)	TCC Volume IA, Part-I Chapter - III Clause 1.3.3	Open space for labour colony	It is requested to provide land for labour colony free of cost. We request you to provide land for Labour colony free of cost We Request to provide land for construction for labour colony within project premises	Tender condition prevails
24)	TCC Volume IA, Part-I Chapter - III Clause 1.3.3	Space for Batching plant	Please confirm that space for concrete batching plant will be provided within plant premises.	Space for concrete batching plant will be provided within plant premises.
25)	TCC Volume IA, Part-I Chapter - III Clause 1.3.4 and 1.3.5	Construction power and water	It is requested to provide construction power and water at 2 points free of cost.	Tender condition prevails
26)	TCC Volume IA, Part-I Chapter - III Clause 1.3.6	Material supply	Kindly confirm which sand (River sand or M sand	Bidder to quote as per tender. Subsequently, at the time of execution, if customer permits to use manufactured sand, the same shall be dealt as supplementary item as per the provisions of contract.

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27)	TCC Volume IA, Part-I Chapter - III  Clause 1.3.11	Bid drawings	<p>It is observed that only plot plan drawing has been enclosed as bid drawing, since the proposed work consists of various structures (more than 20 nos) having large variations of heights and depth are involved with different features. We would request you to kindly provide bid information drawing with tentative dimensions, since these information are not available in building / structural descriptions.</p> <p>If the dimensional drawings cannot be issued at this stage, it is sincerely requested to kindly provide at least the indicative dimensions including maximum Depths &amp; height of each structure, to enable us to correctly assess the actual cost involved for the proposed work and to quote the correct Bid price.</p>	Tentative details of major building are mentioned in Sl. No. 39 of this corrigendum.
28)	TCC Volume IA, Part-I Chapter –IV Clause 1.4.2.(B4)	Tools & plants Concrete batching plant 30 cum/Hr – 2 no.	<p>It is requested to allow 1 batching plant of 45 cum/Hr only as the total quantity of concrete is @ 60000 cum</p> <p>Can we use RMC for all concrete works , as we Owens the RMC PLANT as per the norms of M/s BHEL</p>	<p>Tender conditions prevails</p> <p>Bidder to quote as per BOQ.</p>

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29)	TCC Volume IA, Part-I Chapter –V clause 1.5.1.	T&Ps & MMEs to be deployed BHEL on sharding basis.	1a) BHEL will provide suitable higher capacity cranes above 150T capacity to the Contractors.  b) But, as per Cl. No. 1.5.4 if additional higher capacity Crane not provided by the Contractor. BHEL will supply the same and recover from the Contractor with BHEL overhead. Since, the T&Ps and MMEs to be deployed by the Contractor is given in Chapter-IV.  c) Please confirm the scope of supply of higher capacity Crane by Contraction with deviation.	Tender condition prevails

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30)	TCC Volume IA, Part-I Chapter –VI clause 1.6.3.1	Construction Schedule	<p>As per this clause the completion of GTG foundation HRSG foundation, Main stack foundation is to be completed within 4 months, 3 months and 1 month respectively.</p> <p>In view of above, we would request you to confirm the followings:</p> <p>a) All construction drawings and clear work front for such structure will be made available by BHEL within 7 days from the date of order.</p> <p>b) The completion schedule of main stack foundation involving large quantum of single pour concrete within 30 days from the date of start of work appears to be not feasible to achieve considering the mobilization of plant &amp; equipments by Contractor.</p> <p>c) Please confirm that the tentative drawing release schedule by BHEL will be issued within 7 days from the date of order. Based on which only Contractor can prepare and submit the construction schedule for various activities including mile stone activates listed in Cl.no. 1.6.3 Which are to be achieved within 1 to 13 months?</p> <p>- Kindly review and provide feasible period this miles stone.</p>	<p>a) &amp; c) Bidder shall plan in line with schedule given in tender. BHEL shall provide the drawings and work front as given in the tender</p> <p>b) Completion schedule of main stack foundation shall be taken as 3 months from start of work</p>

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31)	TCC Volume IA, Part-I Chapter –VI clause 1.6.3.1.1	Milestone activity	The mile stone activity listed out in this clause are related to equipment, erection and commissioning both of which are beyond this scope of this tender.  Hence, this clause with this list is not applicable for this Tender.  - Kindly review & confirm.	The clause shall be read as “Bidder must submit detailed schedule (area wise) in consultation with BHEL Engineer in charge for completion of civil works to meet the following project milestone activities within 15 days from the date of issue of LOI”.
32)	TCC Volume IA, Part-I Chapter –VII clause 1.7.2	Advance for Mobilization	It is requested to release Mobilization advance 5 % on acceptance of LOI	Tender conditions prevails
33)	TCC Volume IA, Part-I Chapter –VII clause 1.7.3	Interim Payment Terms	As per tender 90% payment shall be made after execution of each item. For specialized vendor based architectural items it is requested to provide payment terms as follows: <ul style="list-style-type: none"> <li>• 75% payment shall be released after supply of materials at site.</li> <li>• 15% payment shall be released after installation of the supplied materials.</li> </ul> - Kindly review and confirm.	Tender conditions prevails


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34)	TCC Volume IA, Part-II Chapter –1 Sl. No.3 2.17- A2, 2.17.5	Price Variation Compensation (PVC)	It is requested to allow price variation throughout the contract period and extended period for cement, labour, HSDO and other material	Tender conditions prevail. Please note the provisions available in the tender conditions that PVC for cement alone is applicable during the contract period.
35)	General conditions of Contract / Page No. 18 of 32 / Clause 2.7.9	BHEL shall have the right to impose Liquidated Damage / Penalty at the rate of 0.5% of the contract value, per week of delay or part thereof subject to a maximum of 10% of the contract value	The max. LD should be up to 5% of the Contract Value	Tender conditions prevail
36)		Surplus materials	Please confirm that all surplus materials including steel item brought at site by the contractors shall be allowed to taken out of the project premises.	Surplus materials including steel item brought at site by the contractors with proper documentation and Gate pass, shall be allowed to taken out of the project premises after completion of relevant works, on certification by BHEL in charge.

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37)		Drawings	As relevant drawings are not enclosed for Structural work in this Tender, we request BHEL to provide the drawings to find out the approximate quantity of rolled sections and Build-up sections or combination of both sections.	Details shall be furnished at the time of execution.
38)		water retaining structures	During construction of water retaining structures, whether rubber stoppers is to be used or not	Bidder to quote as per BOQ.
39)		Buildings	Kindly provide us the floor to floor height in RCC framed buildings to assess the quantum of staging involved correctly. The height of the building above ground level may please be given	Tentative details of major building are mentioned in the table below. May study with respect to the enclosed list of buildings with dimension details.

<b>No</b>	<b>Building name</b>	<b>Type</b>	<b>Approximate Size</b>
39a	Gas turbine building	Steel building with RCC roof slab over truss & DECK SHEET.	AB BAY - 42m X 25m X 36m (Height). BC Bay -42m x 16mx 15m (height). Both bay has roof only. No major intermediate floors. Only some platforms in between ground & roof.
39b	Steam turbine building	Steel building	AB BAY - 62m X 25m X 36m (Height). BC Bay -62m x 16mx 23m (height). Ab bay- one floor at 11.5m as operating floor with some intermediate platforms. BC bay - 4.0m, 8.0m, 11.5m & 17.0m floor with some portion roof at 23m.

39c	Service building cum Main control room	RCC building (G+3)	40m x20m x 19m (height)
39d	CW pump house	RCC building with RCC slab over steel truss (permanent shuttering as deck sheet)	40mx 12m x 19m (height). Sum bottom may be 8-9m below FGL.
39e	BFP Building	Steel building with RCC slab.	XY BAY - 30m X 16m X 15m (Height). YZ Bay -30m x 8mx 15m (height). XY bay- two floor at 10m & 14.5m. YZ bay - 6.7m, 10.0m, 14.5m. 14.5M IS THE roof, where dearator of height 5 to 6m has been placed.
39f	CW Chlorination Plant building	RCC building	20MX 16MX 8M (Height).
39g	CW chemical treatment plant	RCC skid & steel shade	20mx 16mx 7m (Height).
39h	Diesel generator room (DG building)	RCC building	20mx 15mx 13m (Height).
39i	Compressor House	RCC Building	16mx 12mx 9m (Height).
39j	Air Quality monitoring room (3 nos)	RCC building	10mx8m x 5m (Height)
39k	Gas Booster Compressor Unit	Steel building	32m x22m x17m (Height). One grating floor at 5.0m
39l	Fire station and drill tower	RCC building	Fire station- 20mx10mx10m (Height).Drill tower- 5mx5mx22m (Height) + 7mx5mx7.0m (height) i.e attached with drill tower.
39m	Raw water pump house	RCC building	
39n	RW reservoir	RCC	300mx 80mx 6-7m (total depth),open type
39o	Overhead storage tank (200 cum) Intz type	RCC	OVER HEAD tank bottom 30M from FGL. Total height approximately 36m.
39p	Flue gas analyzer room	RCC building	8mx6m x 4.5m (Height)

B) The following tabular column is added as Chapter-8 to part II of Technical Conditions of Contract.

	<b><u>ANNEXURE-I</u></b>	DOC. NO. : <b>QPE-CL-</b>												
		REV. NO. : <b>R 00</b>												
		SHEET No. : <b>01 OF 01</b>												
<p><b>NDE REQUIREMENTS-COLUMNS, CRANE GIRDER, FRAME, BEAM, TRUSS, COAL BINS/ BUNKERS ETC.</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 70%;">Flame cut edges of plates of thickness 38mm and above</td> <td style="width: 30%; text-align: right;">100% MT / PT</td> </tr> <tr> <td>Butt welds 25mm and above thickness</td> <td style="text-align: right;">100% MT / PT</td> </tr> <tr> <td>After back gouging</td> <td style="text-align: right;">100% PT</td> </tr> <tr> <td>Fillet welds when both plates exceed 25 mm and above thickness</td> <td style="text-align: right;">100% MT / PT</td> </tr> <tr> <td>Fillet welds between tension flanges and webs</td> <td style="text-align: right;">100% MT / PT</td> </tr> <tr> <td>Butt welds when thickness exceeds 32mm for carbon steel, when thickness exceeds 16mm for 1Cr ½ Mo steel &amp; all other butt welds of alloy steels</td> <td style="text-align: right;">100% RT</td> </tr> </table> <p>For other welds - RT shall be limited to 2% of length of welds for welds made by manual or semi-automatic welding and 1% of length of weld if made by automatic welding machines.</p> <p><del>In addition to the above 100% checking of the following will be applicable for COAL BUNKERS:</del></p> <p><del>All vertical &amp; horizontal butt welds (100 % DP and 2 % RT) between each other plate elements of conical hopper</del></p> <p><del>All vertical butt welds in the plates in the vertical portion of the bunker (100 % DP and 2 % RT).</del></p> <p><del>Square butt weld between top panel of hopper plate and the next plate (100 % DP and 2 % RT).</del></p> <p><del>10mm fillet Weld between cap plate of column and flange plate of skirt girder (100 % DP and 2 % RT)</del></p> <p><del>Butt welds between column and small portion of beam (2700 mm long) (100 % DP and 2 % RT).</del></p> <p><del>Ultrasonic testing will be conducted for all groove welds and heat affected zone on dynamic loading at Crane girder and for other important load bearing butt welding on statically loaded structures like Feeder floor and Tripper floor.</del></p>			Flame cut edges of plates of thickness 38mm and above	100% MT / PT	Butt welds 25mm and above thickness	100% MT / PT	After back gouging	100% PT	Fillet welds when both plates exceed 25 mm and above thickness	100% MT / PT	Fillet welds between tension flanges and webs	100% MT / PT	Butt welds when thickness exceeds 32mm for carbon steel, when thickness exceeds 16mm for 1Cr ½ Mo steel & all other butt welds of alloy steels	100% RT
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Butt welds when thickness exceeds 32mm for carbon steel, when thickness exceeds 16mm for 1Cr ½ Mo steel & all other butt welds of alloy steels	100% RT													

All other conditions of the tender specification remain unchanged.  
Bidders are requested to consider this corrigendum as part of tender specification and quote accordingly.

-Sd-  
Manager / Subcontracts