

**CORRIGENDUM -1 TO TENDER SPECIFICATION BHEL PSSR SCT 1659 - DT: 01.03.2017**

Some of the bidders sought clarifications in regard to TENDER SPECIFICATION BHEL PSSR SCT 1659 - Handling of materials at BHEL / Clients Store / Storage Yard, transportation to site, Erection and Commissioning of Boiler and its Auxiliaries including supply and application of Final Painting of unit-3,1x800MW set at Sri Damodaram Sanjeevaiah TPS, Krishnapatnam, Stage-2, Nellore District, Andhra Pradesh and BHEL's clarifications are furnished below for information.

<b>Sl. No.</b>	<b>Ref</b>	<b>Clause No.</b>	<b>Existing Provision in the tender</b>	<b>Bidder's Clarification/Query</b>	<b>BHEL REPLY</b>
1	Technical Conditions of Contract(TCC)	1.10.4.24.1	Number of utility points (Service / plant air, service / plant water, service / washing steam, inert gas (N2) etc., shall be indicated in the P & I diagram. Contractor to locate the utility points as advised by site engineer and shall route the piping to these points as per site conditions, and shall submit as built layout with 'BILL OF MATERIAL' to BHEL for approval.	Please confirm the scope of erection and weight details for the utility point piping	Vendor to execute as per drawings which will be provided at site during execution
2	Technical Conditions of Contract	1.14.2.23	The contractor shall fabricate piping, install lub oil systems and carry out the acid cleaning of fabricated piping. The contractor shall also service the lub oil system, carry out the pressure test of oil coolers. etc.,	Please Confirm the scope of supply for materials required for the lub oil system	Lub oil system supply scope: Supply under BHEL scope
3	Technical Conditions of Contract	1.17.5 1.17.7	Contractor at his cost shall lay all necessary temporary piping, install the pumps, blanks, valves required for the test, pressure gauges etc. Required pipes, valves, plates etc., will be given by BHEL. Temporary piping, pumps, valves, flanges, blanks etc. shall be removed by him and returned to BHEL. All thermo well points are to be seal welded, with plug in position. All Temperature Element points are to be provided with blanks and welded. Necessary blanks will be provided by BHEL.	Please confirm the scope of erection for temporary piping. If it is in the contractor's scope please provide the weight details of the pipe and equipments to be erected	Temporary Piping erection : Vendor to quote based on standard practice.
4	Sr. No. 8 of Clause 1.5.1 & Cl. 1.5.16.1 of chapter V of TCC	Clause 1.5.1 & Cl.1.5.16.1	Induction heating machine	Please confirm accessories will include; Main panel, capacitors Panel, interconnection power and control cables between Panel, 185 Sq. mm special connecting cable from capacitor panel output etc. w.r.t to new model please confirm that Induction Heating M/C with complete accessories shall be provided by BHEL free.	Contractor to arrange for items listed in Clause 1.4.10, for P91 welding; BHEL shall provide Induction Heating machines in line with clause 1.5.16.1
5	Clause 1.5.4 of chapter V of TCC	Clause 1.5.4	Leveled land ..... within his quoted rate.	Please confirm the approximate area to be consolidated so that proper costing could be done as all material including civil work are in the scope of contractor.	Vendor to quote based on standard practice
6	Clause 1.5.7 of chapter V of TCC	Clause 1.5.7 of	The day today ... .. above works	Please confirm that filters for BHEL's cranes shall be provided by BHEL free of cost.	Filters for BHEL cranes: Tender condition prevails
7	Clause 1.10.4.5 chapter X of TCC	Clause 1.10.4.5 chapter X of TCC	All the work ... .. Arranged by BHEL	It is mentioned that fabrication of sheets tubes and pipes including chamfering etc. As this is a costly machine, Please confirm from what thickness and upward of piping edge shall be prepared by chamfering machine so that proper costing could be made..	Chamfering to be done in line with clause 1.14.2.13 and 1.14.2.26

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8	Clause 1.14.1.13 of Chapter IV of TCC-Erection	Clause 1.14.1.13	All weld joints .....NDT works are over	Please confirm that Anti corrosive paint shall be provided by BHEL free of cost.	Bidder to Supply of anti-corrosive paint in line with clause 1.15.12
9	Clause 1.17.48 of chapter XVII- Testing and commissioning	Clause 1.17.48	After floating of safetyvalve.....these factors also	Please confirm the approx. period of deployment of staff and workers so that proper costing could be done.	Commissioning manpower assistance period: BHEL's tentative milestones are indicated in clause 1.6.3.2. However, contractor to provide manpower in line with clause 1.17.48 till the actual event of Handing Over of Unit to customer
10	Clause 1.18.1.5, 1.18.1.11, and 1.18.2.3 of chapterXVIII of TCC	Clause 1.18.1.5, 1.18.1.11, and 1.18.2.3 of	1.18.1.5: All the Exposed... ..customer official. 1.18.1.11: Each coat Primer Intermediate, finish ... ..by the contractor 1.18.2.3: Mostly equip. ...final colour	Since the scope of this tender is limited to supply and application of finish paint..Please confirm that as mentioned in clause 1.18.2.3, primer shall be applied only on the surface which may get peeled off during storage and handling	Modifications to clauses 1.18.2.3, 1.18.1.11 and 1.18.1.17 to be referred
11	Welding Sch. : Sr.No. 1&2of soot blower system. S.N. 10, 11,43and 44 of boiler trim piping	Welding Sch. : Sr.No. 1&2of soot blower system. S.N. 10,11,43 and 44 of boiler trim piping	The OD of piping mentioned is 21.3, 33.4, of SA 335 P-91 material	Please confirm that dia below 2" is to be considered as tube under T-91 material instead of P-91 material and heat treatment of the same is to be carried out by resistance heating method ?	T-91 and P91 heat treatment: Welding Schedule provided in tender prevails

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12	Formats in Volume-1 A, Chapter XIX	Formats in Volume-1 A, Chapter XIX	List of Completed Jobs executed by the Bidder and List of ongoing Jobs being executed by the Bidder	The column of both the formats are same, Please confirm that In ongoing jobs being executed by the bidder, how contractor can produce copy of completion certificate.	Current Status viz Completion of Milestone(s) / % age completion with respect to the Awarded Scope-may be indicated incase of ongoing jobs
13	General Note of painting schedule for APH, Fans, gates & dampers on page 5 of 5	General Note of painting schedule for APH, Fans, gates & dampers on page 5 of 5	** The Paint is to be such that as the Plant is costal based.	Since specification of paints given by BHEL and contractor has painted the surface as per specification, please confirm, how the contractor is responsible for protection of equipment against corrosion & erosion?	** in General notes of Painting Schedule (Doc Ref:PS:KRIS:R833/rev 01 ,page 5 of 5) for APH, Fans, Gates and Dampers, ESP: This hand written condition stands deleted
14	Technical Conditions of Contract(TCC)	EMD- <b>Online EMD payment portal to BHEL PSSR Chennai</b>	<b>Nil</b>	Nil	<b>EMD shall be paid directly to BHEL-PSSR through Online EMD payment portal by following these steps .</b> 1. Visit www.onlinesbi.com -> Go to State Bank Collect (In the tab section) 2. Click Check box to proceed for payment -> Click on Proceed 3. Under State of Corporate/Institution ->Select Tamilnadu 4. Under Type of Corporate/Institution -> Select PSU – Public Sector Undertaking ->Go 5. Under PSU – Public Sector Undertaking Name -> Select BHEL PSSR CHENNAI and Submit 6. Under Select payment Category ->Choose the contract number (For which EMD and Tender fees to be paid)
15	Technical Conditions of Contract(TCC)	1.17.46	1.17.46 After synchronization, the commissioning activities will continue. It shall be the responsibility of the contractor to provide manpower including necessary consumables, hand tools and supervision as part commissioning assistance for a period of six months after synchronization or till handing over of sets to customer, whichever is earlier.	Nil	Clause 1.17.46 is Modified as under: After synchronization, the commissioning activities will continue. It shall be the responsibility of the contractor to provide manpower including necessary consumables, hand tools and supervision as part commissioning assistance till handing over of sets to customer.
16	Technical Conditions of Contract(TCC)	sno:17 to Note to Welding Schedule	Nil	Nil	Note sno:17 added as below: For categorisation of carbon steel (inclusive of SA106GrC or equivalent) and Alloy steel (inclusive of T91/P91) as per Sno:2 in Note to Welding Schedule,Please Refer the POWER PLANT MATERIAL SPECIFICATION LIST provided in the TCC under welding schedule.

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17	Technical Conditions of Contract(TCC)	1.18.1.11	Each coat (Primer, intermediate, finish) shall have a minimum thickness of dry film thickness (DFT) in microns and the DFT of finish paint shall not be less than the specified. Necessary instrument for measuring the thickness of paint applied is to be arranged by the contractor.	Nil	Clause 1.18.1.11 is Modified as under: Each coat (Primer, intermediate, finish) shall have a minimum thickness of dry film thickness (DFT) in microns as per the painting specification and the DFT of finish paint shall not be less than the specified. Necessary instrument for measuring the thickness of paint applied is to be arranged by the contractor. [ Refer Painting Schedule for required DFT]
18	Technical Conditions of Contract(TCC)	1.18.1.17	Before applying the subsequent coats, the thickness of each coat shall be measured and recorded with BHEL/ Customer.	Nil	Clause 1.18.1.17 is Modified as under: Before applying the subsequent coats, the thickness of each coat shall be measured and recorded with BHEL/ Customer. The instrument for checking the thickness of coat is to be procured by the contractor and should be calibrated after <u>periodic intervals</u> .
19	Technical Conditions of Contract(TCC)	1.18.2.3	Mostly the equipment / items/ components will be supplied with one coat of primer paint and one coat of finish paint. However during storage and handling, the same may get peeled off / deteriorate. All such surfaces are to be thoroughly cleaned and to be touch up painted with suitable approved primer and finish paint matching with shop paint / approved final colour.	Nil	Clause 1.18.2.3 is Modified as under: Mostly the equipment / items/ components will be supplied with one coat of primer paint and one coat of finish paint. However during storage and handling, the same may get peeled off / deteriorate. All such surfaces are to be thoroughly cleaned and to be touch up painted with suitable approved primer and finish paint matching with shop paint / approved final colour. Besides the above, two coats of approved Primer paint is to be applied on all the bare/unpainted surfaces. The gas cut stubs would require <u>being ground and rounded</u> .
20	Technical Conditions of Contract(TCC)	1.4.10.4	EQUOTIP or MICRODUR make or equivalent portable hardness tester	Nil	Clause 1.4.10.4 is Modified as under: GE or Kraut Kramer or Microdur make or reputed brand ultrasonic hardness testing machine (Ultrasonic contact impedance (UCI))
21	Technical Conditions of Contract(TCC)	New Point: Note No 4 to T&Ps & MMEs to be deployed by Contractor [ VOLUME-IA PART-I CHAPTER – IV]	Nil	Nil	Note no 4 added as below: Contractor to provide GE or Kraut Kramer or Microdur make or reputed brand ultrasonic hardness testing machine (Ultrasonic contact impedance (UCI)) within quoted rates wherever Hardness Testing is required as per BHEL's relevant documents

**Note:-**

All other Terms & Conditions remain unchanged.This corrigendum will form part of the tender.Bidders are requested to submit this along with their offer with duly signed

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AGM / SCT & PURCHASE