

CORRIGENDUM -3, Date: 07/06/2013
TO TENDR SPECIFICATION BHEL PSSR SCT 1529
CLARIFICATIONS FOR 1 X 700 MW BELLARY THERMAL POWER PROJECT

One of bidders sought clarification in the above tender and BHEL clarifications are furnished below for information

SNO	REFERENCE CLAUSE OF TENDER DOCUMENT	QUERY	BHEL'S CLARIFICATION
1.	CL 1.2.3 of Volume-1A Scope of works chapter-II of TCC – page no. 34	Open ends of Piping valves shall be protected with blanking plates or by plastic insert plugs. Q: Materials supply by BHEL or Bidder scope.	Tender Clause 1.2.3 revised as below : Installation of all valves and other miscellaneous in line / on line items is also included.
2.	CL 1.5.12 of Volume-1A T&P to chapter-V of TCC – page no. 43	Suitable jacks to be provided by contractor Q : Gang jack for Stator alignment free issue by BHEL or contractor has to arrange.	Ref Vol. - IA, Part-I, Chapter-V for T&P's. In addition to the above T&P's, Hydraulic jacks supplied by manufacturing units for alignment of Generator Stator shall be made available to TG contractor on free of cost.
3.	Cl 1.6.5 of Volume-1A, chapter-VI of TCC,page-46	Guarantee period – All E,T & C works are completed in all respects. Q : Up to What Time period contractor responsibility. If commissioning delay due to BHEL/Customer than what is contract obligation?	Tender conditions prevail.
4.	CL No. 1.7.1.2 / 1.7.1.3 of Volume 1A Part I Chapter –VII to TCC page No 47	Payment % break up 1.7.1.2 Grouting activity included and in 1.7.1.3 Hinge assembly. Included. Q : Both the activities are going to completed in last stage so suggested to made separate % break up or delete the word.	Tender conditions prevail.
5.	CL No. 1.7.3.8 of Volume 1A Part I Chapter –VII to TCC page No 50	Enclosures of Generator / Exciter with all aux. Q : Confirm Generator also having enclosure if not delete from % breakup.	1.7.3.8 Removed. 1.7.3.9 Grouting of Gen bearing pedestals and exciter 5% is changed as 10%
6.	CL No. 1.7.5.2 / 1.7.6.4 of Vol. 1A Part I Chapter – VII to TCC page No 51 and 52	CF coolers covered in both % Q : Turbine oil cooler not covered	1.7.6.4 Description revised as below. ERECTION, / Mechanical Completion (Placement, alignment and grouting / welding / fixing etc.) OF CONTROL FLUID TANK, TURBINE OIL COOLER, C.F. PUMPS, PURIFICATION UNIT, ETC.

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7.	CL No. 1.7.9.12 to 1.7.9.16 of Volume 1A Part I Chapter –VII to TCC page No 54	Q : 5% Hold even completion of all works + SD	Tender conditions prevail.
8.	CL No. 1.9.1 of Volume 1A Part I Chapter –VII to TCC page No 59	Condenser tube & BOI weight details not provided Q : Item wise weight detail not available. Please provide the same.	Will be clarified in Next Corrigendum.
9.	CL No. 1.9.2 (A2) of Volume 1A Part I Chapter –IX to TCC Page 64	Extraction NRV Q : Extraction line NRV's suggested to shift to Piping scope to avoid interface problem with other contractors.	CRH NRVs and Extraction NRVs are not in the scope of TG contract. Sl. No. 32 to 39 (in A2) Turbine package weight schedule is deleted.
10.	CL No. 1.9.2 (A1) of Volume 1A Part I Chapter –IX to TCC page No 64	Sl.No.90 to 95 Impulse pipe & Instrumentation item. Q : Clarification required. if Covered in the scope or not.	Sl. No. 92 to 95 Not in STG scope, hence deleted.
11.	CL No. 1.9.2 E1 of Volume 1A Part I Chapter –IX to TCC page No 71	BFP RC valve, Strainer & CEP strainer are covered in weight schedule. Q : Normally these items are in piping scope to avoid the interface problem with other contractors.	Not in the scope of TG contract. Sl. No. 8 to 10 (in E) Turbine package weight schedule of pumps & motors are deleted.
12.	CL No. 1.9.2 E1 of Volume 1A Part I Chapter –IX to TCC page No 74	Weight variation +15% Q : In GCC +or- 15% but in TCC only +15%. Clarification required.	Tender conditions prevail.
13.	CL No. 1.12.4 of Volume 1A Part I Chapter –XII to TCC page No 83	Stator unloading Q : Clear scope required	Stator will be brought just below the portal gantry crane location for unloading by BHEL. The stator has to be unloaded with the help of portal gantry crane is included in the scope of

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			contractor. Hence no additional stools are required.
14.	CL No. 1.13.11 of Volume 1A Part I Chapter –XIII to TCC page No 85	Generator stator lifting. Q : Exact location of stator unloaded. Clarifications required.	Stator will be brought just below the portal gantry crane location for unloading by BHEL. The stator has to be unloaded with the help of portal gantry crane and lifting is included in the contractor's scope.
15.	CL No. 1.13.12 of Volume 1A Part I Chapter –XIII to TCC page No 86	CO2 & H2 gas cylinder transportation and filling till unit is commissioned and handed over. Q : Clarify with above point. What is the time period?	1.13.12 Description revised as below : Transportation of CO ₂ & H ₂ cylinders from the store and filling of Gas in the generator stator cooling systems, etc., to be carried out till completing the commissioning activities for six months after synchronization of the Unit or till handing over of the Unit to customer, whichever is earlier.
16.	CL No. 1.13.13 of Volume 1A Part I Chapter – XIII to TCC page No 86	De-aerator erection – Q: Valve & Filters?	Deaerator including all loose items, Valves, Stand pipes ,Root valves, fittings are included in the scope of contract.
17.	CL No. 1.13.31 / 32 of Volume 1A Part I Chapter – XIII to TCC page No 88	Q : RT requirement 100%?	CL No. 1.13.31 deleted.
18.	CL No. 1.13.46 of Volume 1A Part I Chapter –XIII to	All lube & control oil piping required purging by Nitrogen/Argon Q : Purging required only for SS pipe or CS Pipe also.	Purging is required for welding of SS piping only.

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	TCC page No 89		
19.	CL No. 1.13.56 of Volume 1A Part I Chapter –XIII to TCC page No 91	Flow nozzles / Orifice under this scope. Q : Clarification required	Tender condition prevail
20.	CL No. 1.13.119.5 of Volume 1A Part I Chapter – XIII to TCC page No 100	Multi ball bearing support for condenser. Q : Condenser supports are spring loaded or multi ball bearing support. Details required.	Will be clarified in Next Corrigendum.
21.	CL No. 1.13.119.6 of Volume 1A Part I Chapter – XIII to TCC page No 102	CW Piping up to A row Q : Terminal point not clear	Tender conditions prevail. The points given below are included in this clause : PIPE MATERIAL : Carbon Steel rolled and welded as per IS 3589 from CS plates (as per IS 2062) with PU (Polyurethane) coating internally with minimum 2 DFT as per AWWA – C 322. Though pipes with PU coating will be supplied at open ends of each pipe length upto 100 mm length (on both sides) ,the PU coating will not be done to facilitate welding while supplying the pipes . Hence the scope of this contract includes surface cleaning , supply and application of PU coating for the welded portion of the pipes.
22.	CL No. 1.17.15 / 1.17.27of Volume 1A Part I	Temp. Piping for Steam blowing / Chemical cleaning. Q: Clarify the scope. Normally this involved in piping contractor scope.	A) For clause 1.17.15 -Temp piping for steam blowing/,chemical cleaning/ oil flushing for the piping erected under

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	Chapter -XIII to TCC page No 118, 119, 120		the scope of work is to be carried out by the contractor within the quoted rates. B) For clause 1.17.27- tender conditions prevail.
23.	CL No. 1.17.43 of Volume 1A Part I Chapter -XIII to TCC page No 122	Suction filter of BFP, CEP cleaning. Q : Scope clarification?	Clause revised as below : Suction filter of TG bearing filters are to be cleaned, as and when required during flushing / commissioning by the contractor at his cost till the unit is handed over to customer.
24.	CL No. 1.13.15 / 1.17.32 / 1.17.43 / 1.17.66 of Volume 1A Part I Chapter -XVII to TCC page No 86/160/162	1 CO2 & H2 gas cylinder transportation and filling till unit is commissioned and handed over. 2. Commissioning asst. 6month after synchronization or handing over to customer, whichever is earlier. 3. Filter cleaning till handed over to customer. 4.Resources available till commissioning units are taken by the customer / BHEL Q : Clarify commissioning assistances up to what time. 6month after first synchronisation or unit handing over to client.	Description revised as given below. During the testing and commissioning period, though BHEL's and customer's staff will also be associated in the work, the contractor's responsibility will be to make available resources in his scope upto Six months after synchronization of the Unit or till handing over of the Unit to customer, whichever is earlier.
25.	Cl. 1.13.20 88 of 140	The contractor shall have to carry out the condenser tubes insertion and expansion at site after the installation of condenser on their foundation. Before insertion of tubes the contractor shall check for absence of any dents mechanical damages or any other defects of tubes caused during storage or transportation. Tube should be thoroughly internally cleaned of all extraneous matter. Only fine emery paper shall be used for cleaning the tubes at the ends where expansion has to be carried out. Q : On going through the document, we understand that Condenser	Will be clarified in Next Corrigendum.

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		tubes will be supplied as bought out items, and same has to be inserted, expanded, flaring and bell mouth to be done. Kindly specify the tube material and thickness and nos. Also is welding of tubes envisaged? If so, is an /orbital welding machine required for the same?	
26.	Cl. 1.13.14 87 of 140	The feed water storage tank will be supplied in three sections with feed pipe, heating steam header, spray nozzles, supports etc., in loose components. These are to be erected, aligned & welded in position. Welding, NDT & heat treatment if required shall be carried out by the contractor within quoted rate.	Deaerator / FST are to be assembled / Erected / Welded at Deaerator floor as per Drawing. Tentative Drawing (GA of Deaerator 11631011386 Rev 01) is attached. This Drg. may undergo revision during execution.
27.	CL No. 1.13.119.5 of Volume 1A Part I Chapter – XIII to TCC page No 102	Brief list of equipments.	Hoist and misc. cranes removed from this scope of tender.
28.		In <u>BOUGHT OUT ITEMS</u> the Turbine integral piping consists of Lube oil piping, Control oil piping, seal oil piping, Gland seal piping, Equipment drains and vents, Cross around piping, Air and gas system Piping, ACW piping for H2 coolers, other Misc. system piping etc. is part of the scope of work. Q : We request BHEL please provide tentative weight details of TG integral Piping for estimation of the price.	Tentative weight of Turbine integral Piping is 135 MT with variation of 15% weight.

Note

1. ALL OTHER CONDITIONS REMAIN SAME


 07/06/13
 GM/CONTRACTS
 BHEL/PSSR/CHENNAI

