

**CORRIGENDUM - 3 dated 16.06.2021 TO TENDER SPECIFICATION BHEL PSSR SCT 1964**

**Sub:** Erection, Testing, assistance for Commissioning and Trial Operation of Balance Works of Boiler & auxiliaries, Ducts & Dampers, Boiler Integral Piping, Fans, Bowl mills, Rotating Equipment's, its auxiliaries, supply and application of final Painting including Handling of Materials at BHEL / Client's Stores / Storage Yard and transportation to site at 1 x 800 MW North Chennai Stage III.

**A. The following clarifications are provided in response to queries received from bidders.**

S No	Clause No	Existing in tender	Bidder's query	BHEL's Reply
1.	Vol-IA Part-I: TCC, Chapter-3, Clause 1.3.7.4	The contractor shall provide within finally accepted price / rates, all consumables like welding electrodes (including alloy steel and stainless steel), all gases (inert, welding, and cutting), soldering material, dye penetrants, radiography films. Other erection consumables such as tapes, jointing compound, grease, mobile oil, M-seal, Araldite, petrol, CTC / other cleaning agents, grinding and cutting wheels are to be provided by the contractor. Steel, H&S, packers, shims, wooden planks, scaffolding and preassembly materials, hardware items etc required for temporary works such as supports, scaffoldings, bed are to be arranged by him. Sealing compounds, gaskets, gland packing, wooden sleepers, for temporary work, required for completion of work except those which are specifically supplied by manufacturing unit are also to be arranged by him.	Request BHEL to arrange the Shims, Packers and Gaskets on cost free basis	Tender conditions Prevails
2.	Vol-IA Part-I: TCC, Chapter-5, Clause 1.5.12	Operation and Maintenance of the passenger cum goods lift shall be under the scope of the bidder	Request BHEL to provide the passenger cum goods lift with required O&M and ready for operation on cost free basis considering the less contract period	Tender conditions Prevails
3.	Vol-IA Part-I: TCC, Chapter-6, Clause 16.1.1	The entire work of Boiler and auxiliaries, rotating machines, including Supply & Application of final Painting as detailed in the Tender Specification & packaging split as per clause 1.2.1 shall be completed within 6 (Six) months from the date of commencement of work at site.	As the scope of Alignment and welding works are involved in the work, request BHEL to revise the schedule suitable as the works may not be completed in 06 Months	Tender conditions Prevails
4.	Vol-IA Part-I: TCC, Chapter-6, Clause 16.5	The guarantee period of Twenty-four months for workmanship shall commence from (a) The date of handing over of Unit to		Tender conditions Prevails

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		Customer or (b) six months from the date of floating of all safety valves whichever is earlier (Provided all erection ,testing , and commissioning works are completed in all respects	Request BHEL to revise the Guarantee period as 12 months instead of 24 Months	
5.	Vol-IA Part-I: TCC, Chapter-9, SI.No.3 of Note to clause 1.9.1	The erection & dismantling of temporary piping, pumps, tanks, dummy plates & other miscellaneous equipment etc. for pre-commissioning and commissioning activities like hydraulic test, chemical cleaning, oil flushing, steam blowing, gas tightness test etc. for the above scope of the contract are covered and shall be carried out as a part of work. There will not be any separate payment for this works.	Considering the less volume of work , we request BHEL to provide a separate payment for Erection & dismantling of Temporary piping, equipment's etc for Pre-Commissioning and commissioning activities .	The erection & dismantling of temporary piping, pumps, tanks, dummy plates & other miscellaneous equipment etc. for pre-commissioning and commissioning activities for the scope of work of this contract are covered and shall be carried out as a part of work. There will not be any separate payment for this works. Tender conditions Prevails
6.	Vol-IA Part-I: TCC, Chapter-9, SI.No.4 of Note to clause 1.9.1	The erection and dismantling of air blowers and connecting pipes and ducts, providing blanks I dummies at the required locations and conducting gas tightness test is in the scope of the contract and shall be carried out within the quoted rate	Request BHEL to provide a separate payment for erection & dismantling of air blowers and connecting pipes and ducts, providing blanks I dummies at the required locations and conducting gas tightness test	Tender conditions Prevails
7.	Vol-IA Part-I: TCC, Chapter-10, Clause 1.10.9.18	On completion of work, all the temporary buildings, structures, pipe lines, cables etc. shall be dismantled and levelled and debris shall be removed as per instructions of BHEL by the contractor at his cost. In the event of his failure to do so, the expenditure towards clearance of the same will be recovered from the contractor.	Since, the provided BOQ is only for Pending works and this scope is related to Complete Boiler package, Request BHEL to the detailed scope and also a separate payment % for the same (if applicable)	The said clause is applicable for the works carried out under the scope of work of this contract only. Accordingly, Tender conditions Prevails.

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8.	Vol-IA Part-I: TCC, Chapter-12, Clause 1.12.7	Total grouting of the columns I equipment's including pocket grouting, grouting at the gap between foundation and base plates top surface of column I equipment's is in the scope of the contractor. All the grouting should be carried out by non-shrink cement like combextra GII Combextra GP II I Shrinkkomp or its equivalent etc. This special non-shrink cement shall be arranged by the contractor at his cost. The quoted rate shall be inclusive of the same	Request BHEL to provide the Approximate quantity of Grout cement to be considered in our scope and also request BHEL to compensate Suitably as per actual.	Bidders may to take into account the present site condition and quote. Accordingly, Tender conditions Prevails
9.	Vol-IA Part-I: TCC, Chapter-14, Clause 1.14.2.13	The contractor should get the formal approval from the Boiler inspectorate to take up the boiler erection work (mainly piping etc.). Necessary assistance will be extended by BHEL for the same.	Since, the scope of Pressure Parts and Piping are not provided in the BOQ. Requesting BHEL to provide confirmation about the same.	Since Pressure parts and piping are not under the scope of this tender, approval from the Boiler inspectorate need not be obtained by the bidder.
10.	Vol-IA Part-I: TCC, Chapter-14, Clause 1.14.2.37	Complete penetration of water wall (Panel to panel) tube to tube and fins welding shall be achieved either by single side or double side welding. The decision of BHEL Engineer is final. NOTE: The water wall/spiral wall panels will be supplied with fin cut to a length of 300 mm on ends for alignment and welding of tube to tube of panels at site.  The bidder may require to cut fins further to a maximum length of 1000 mm or alignment and welding of tube to tube in water wall/spiral wall panels and welding of fins on both sides after completion of panel-to-panel welding within the quoted rate. No extra payment will be made for the above works	*The scope of Pressure Parts and Piping are not provided in the BOQ. *We request BHEL to provide confirmation about scope applicability and% of payment will be done	Pressure parts and piping are not under the scope of this tender.
11.	Vol-IA Part-I: TCC, Chapter-16, Clause 1.16.54	Boroscopic examination of headers etc.to be conducted after steam blowing. This requires cutting of tubes to facilitate the boroscopic examination and re welding etc. are part of work and the same to be carried out with in the quoted rate	Since, no pressure part works mentioned in the BOQ, we request BHEL to provide a separate payment for Examination and rewelding as per actual at site.	Since Pressure parts and piping are not under the scope of this tender, boroscopic examination is not covered under the

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				scope of work of this contract.
12.	VOLUME-IA PART – II CHAPTER 1, S. No.19, Clause 2.15.5 of GCC in Extra Works	MAN-HOUR RATE FOR ELIGIBLE EXTRA WORKS: Single composite average labor man-hour rate, including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, consumables for carrying out any major rework I repairs I rectification I modification I fabrication as certified by site as may arise during the course of erection ,testing, commissioning or extra works arising out of transit, storage and erection damages , payment, if found due will be at Rs 108/- per man hour	Request BHEL to revise the man hour rate from Rs.108/- to Rs.250/- per man hour	Tender conditions Prevails
13.	Vol-IA Part-I: TCC, Chapter-9, BOQ	The Tonnages of Non pressure Pre-assembly - 1669.35 T Erection - 1671.70 T Alignment - 1858.55 T Welding - 2013.22 T Readns of Floors- 2032.43 T	The total tonnages are summarized as follows Pre-assembly - 1669.35 T Erection - 1671.70 T Alignment- 1765.21 T Welding - 1773.57 T Readns of Floors- 1792.78 T Kindly confirm the quantities	Tender conditions Prevails
14.	VOLUME-IA PART – II CHAPTER 1, S. No.11, PVC	PRICE VARIATION COMPENSATION (PVC) is not applicable for this tender .	Request BHEL to provide Price Variation for Man power, Diesel, Electrodes etc.	Tender conditions Prevails
15.	Vol-IA Part-I: TCC, Chapter- 3, Clause 1.3.4	Construction power will be provided to the contractor at one point within plant area by BHEL on chargeable basis at the applicable rate of TANGEDCO under LT tariff VI at the nearest substation. The present LT tariff VI rate of TANGEDCO is Construction power will be provided to the contractor at one point within plant area by BHEL on chargeable basis at the applicable rate of TANGEDCO under LT tariff VI at the nearest substation.	Request BHEL to provide construction power on cost free basis	Tender conditions Prevails
16.	Vol-IA Part-I: TCC, Chapter- 6, Clause 1.6.1.1	The entire work of Boiler and auxiliaries, rotating machines, including Supply & Application of Final Painting as detailed in the Tender Specification & packaging split as per clause 1.2.1 shall be completed within 6 (Six)	Since this is being Balance of work and quantum of work is more, the work can't be completed within six months. Hence the completion period of 6 months is	Tender conditions prevails.

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		months from the date of commencement of work at site.	to be changed.	
17.	VOLUME-IA PART – II CHAPTER 1, S. No.11, PVC and S. No. 8 ORC	PRICE VARIATION COMPENSATION (PVC) is not applicable for this tender.  OVERRUN COMPENSATION (ORC) is not applicable for this tender.	The clause no-08 &11 of TCC to be amended making PVC & ORC applicable for this tender on completion of Contract period.	Tender conditions prevails.
18.	Vol-II Price Bid	–	In the Bill of quantities related to Bunker structure, Boiler structure and Non Pressure parts the percentage of payments released is 10% on placement in position which is to be changed to 20% as followed in all other conventional tenders. The clause no 1.7.1.5 (completion of NDE/SR) is to be removed. Since the activity of NDE is not at all applicable for Bunker and Boiler structural work. The percentage of payment release given against this activity to be added back to the clause 1.7.3.2 (Placement in Position).	Sufficient clauses to take care of the point above is incorporated in the tender, hence Tender conditions prevails
19.	Vol-II Price Bid	–	In Bunker structure, there are two activities Bolt fixing in clause no1.7.1.4(b) and Bolt tightening inspection clause no1.7.1.4 (c) which is to be merged and percentage of payment release to be given as 6%. The balance percentage is to be added clause no1.7.3.1 & 1.7.3.2.	Sufficient clauses to take care of the point above is incorporated in the tender, hence Tender conditions prevails

**NOTE:**

1. ALL OTHER CONDITIONS REMAIN UNCHANGED.
2. BIDDERS ARE REQUESTED TO CONSIDER THIS CORRIGENDUM AS PART OF TENDER SPECIFICATION AND QUOTE ACCORDINGLY.

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R.Siva

Dy. Manager/SCT