

Corrigendum 7 dated 25.06.2021 to Tender Specification BHEL: PSSR: SCT: 1965 for the work of Erection, welding, NDE & testing of 1000 MWe Turbine, Generator, Condenser, Static, Rotary Equipments, Auxiliary Systems, Cross Over Piping, Integral Piping, Fabrication of Structural Steel, Pipe Supports, Metal Structures, Platforms, Final Painting including Handling of Materials at BHEL/ Client's Stores/ Storage Yard, Transportation to site for Unit 3 & Unit 4 of Kudankulam Nuclear Power Project (KKNPP), Radhapuram Taluk, Thirunelveli District, Tamil Nadu

A. Some of the Bidders had asked queries in the published Tender Specification. The clarifications issued by BHEL are furnished below:

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
1	TCC VOLUME-IA PART-I CHAPTER – IX Bill of Quantity Note no. 3 under Weight Schedule Summary	The Lump sum quoted value for Erection Works shall include the Variation of +15% (Fifteen percent) in total indicated weight. In case of variation in weight beyond +15%, the quantity exceeding +15% of the tendered quantity will be paid at the average tonnage rate arrived at by dividing the lump sum quoted/ accepted value by 115% of total indicated weight.	<p>As per BHEL, Bidder has to consider 115% of Total Indicated weight for arriving their estimates.</p> <p>As the provided Tonnage is Approx. 14,000 T and Variated tonnage will be approximately 2100 MT. Due to more quantity of works to be considered, Estimate price will be Enhanced.</p> <p>We request BHEL to reconsider the variation clause and revise the variation from 15% to 5% only</p>	<p>TCC VOLUME-IA PART-I CHAPTER – IX Bill of Quantity Note no. 3 under Weight Schedule Summary is revised as under:</p> <p>The Lump sum quoted value for Erection Works shall include the Variation of +5% (Five percent) in total indicated weight. In case of variation in weight beyond +5%, the quantity exceeding +5% of the tendered quantity will be paid at the average tonnage rate arrived at by dividing the lump sum quoted/ accepted value by 105% of total indicated weight.</p>
2	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause 1.2.20.8	<p>1.2.20.8 In situ modification works</p> <p>Modification work at site involving cutting and welding operation shall be carried out as per the issued drawings/ sketches with approval of EIC. The scope of work involves identification, handling, marking, cutting and edge preparation, fit-up, longitudinal seam/ groove welding of components, grinding, cleaning, visual inspection, disposal of removed materials at NPCIL store, preparation of reports. The work includes arrangement of manpower, P&M, tools & tackles and consumables</p>	<p>The quantification of the weld volume is arrived and payment terms for this modification works is not specified. Request clarification.</p> <p>Similarly, for other in-situ modifications involved in this tendered works, the mode of measurement as well as payment is not specified. Kindly furnish.</p>	<p>TCC VOLUME-IA PART-I CHAPTER – II Scope of Works, Clause 1.2.20.8 stands deleted.</p> <p>If any modification works during the time of execution will be dealt as per GCC clause 2.15 and SI No. 19 of TCC VOLUME-IA PART-II CHAPTER 1.</p>

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
		<p>(excluding electrode) and completion of work as per the instructions of EIC. The cutting work shall be carried out by oxy acetylene flame cutting or grinding machine. All the gas cut edges shall be finished by grinding. Welding shall be done by SMAW process.</p> <p>The Welded butt/ groove joints shall be measured by volume of weld geometry in units of Cubic Centimeter (CC). The cross-section of joint configuration can be single/ double V groove, single/ double bevel etc. The volume of weld geometry will be measured during fit-up stage according to the joint configuration including the reinforcement volume. The volume of weld due to fusion will not be taken into account for weld volume calculation.</p>		
3	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause 1.2.17.19	Non Destructive Examination (NDE)	<p>Kindly furnish the tentative quantities of RT, UT and DPT in terms of Inch Dia / Inch mtr.</p>	<p>Tentative NDT quantities for Piping work for both units are given below. However, it may vary depending on working document and feasibility of hydro test of piping loop at the time of execution.</p> <ol style="list-style-type: none"> 1. Weld Joint Inspection by RT (Gamma Ray): 50,000 inch dia 2. Weld Joint Inspection by UT (Ultrasonic Test): 10,000 inch dia 3. Weld Joint Inspection by DPT (Dye Penetrant Test): 600 RM <p>The NDE requirements of Main equipment's/ structural works are to be carried out by the agency as per working document provided during the time of</p>

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
				execution with in the lump sum quoted price.
4	-	-	Subsequent to the detailed review of the Work flow pattern and the possible billing, we find that without receipt of 10% interest free advance, we would be constrained to meet out the site expenditures and to level the Cash flow requirements. Hence , we request you to kindly consider for providing 10 % Interest Free Advance against initial mobilization.	Interest free Mobilization advance is not applicable for this tender
5	1.6.4 Tentative Milestone schedule of TCC (Page No.292 of 608)	TG barring gear U # 3 - 40th Month U # 4 - 44th Month	Request to provide us confirmation about Applicable milestones after TG Barring gear (i.e Synchronization, Full load etc)	TCC VOLUME-IA PART-I CHAPTER – VI, Time Schedule, Clause 1.6.4 is revised and attached as below. Clause no. 1.6.4.1. and 1.6.4.2 remains unchanged

1.6.4 TENTATIVE MILESTONE SCHEDULE FOR UNIT 3 & 4 (Revised)

SI. No.	Milestone Description	Milestone Month (Tentative) Unit 3	Milestone Month (Tentative) Unit 4
1	Start of work	1 st Month	
2	Start of condenser erection	1 st Month	5 th Month
3	Erection of MSR	3 rd Month	7 th Month
4	Start of Turbine erection	6 th Month	10 th Month
5	Erection of Deaerator	10 th Month	14 th Month
6	Erection & assembly of condensate pumps (LCB)	15 th Month	19 th Month
7	Completion of erection of TDFP & Feed pumps	20 th Month	24 th Month
8	Erection of condenser cooling water pumps (PAC) and PEC & PCC pumps	31 st Month	35 th Month
9	Completion of erection & assembly of Main condenser	35 th Month	39 th Month
10	Completion of erection & assembly of Main Turbine & Its auxiliaries	36 th Month	40 th Month
11	Completion of erection & assembly of generator & Its auxiliaries	37 th Month	41 st Month
12	TG barring gear	38 th Month	42 nd Month

Sl. No.	Milestone Description	Milestone Month (Tentative) Unit 3	Milestone Month (Tentative) Unit 4
13	Synchronization	39 th Month	43 rd Month
14	Full Load	41 st Month	44 th Month
15	Completion of Contractual Obligations		44 th Month

B. The following clause is revised as below:

Clause ref.	Existing clause				Revised as			
TCC VOLUME- IA PART-I CHAPTER – VI Time Schedule	1.6.5 MAJOR INTERMEDIATE MILESTONES				1.6.5 MAJOR INTERMEDIATE MILESTONES			
	Sl. No.	Intermediate Milestone Description	Intermediate Milestone Month (Tentative)	Intermediate Milestone	Sl. No.	Intermediate Milestone Description	Intermediate Milestone Month (Tentative)	Intermediate Milestone
	1	Completion of erection of TDFFP & Feed pumps	20 th Month	M1	1	Completion of erection & assembly of Main condenser (Unit 3)	35 th Month	M1
	2.	Completion of erection & assembly of Main condenser	35 th Month	M2	2.	Completion of erection & assembly of Main condenser (Unit 4)	39 th Month	M2
	Note: Please refer Sl No. 7 Part II Chapter-1 of Technical Conditions of Contract (Volume 1A of Volume I Book I) for Penalty for Intermediate Milestones				Note: Please refer Sl No. 7 Part II Chapter-1 of Technical Conditions of Contract (Volume 1A of Volume I Book I) for Penalty for Intermediate Milestones			

Note:

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

-Sd-

Sreenath N G
Dy. Manager / Subcontracts