

Corrigendum 2 dated February 15, 2021 to Tender Specification BHEL: PSSR: SCT: 1943 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 of Kudankulam Nuclear Power Project (KKNPP), Radhapuram Taluk, Thirunelveli District, Tamil Nadu

A. The following clauses are changed as below: -

Sl. No.	Ref. Clause	Existing	Revised as
1	Techno commercial bid Volume-I Book-I Technical Conditions of Contract, VOLUME-IA PART – II CHAPTER 1 SI No. 5- SECURITY DEPOSIT	<p>1.10.4 Modes of deposit:</p> <p>1.10.4.1 The balance amount to make up the required Security Deposit of 2% of the contract value may be furnished in any one of the following forms.....</p>	<p>1.10.4 Modes of deposit:</p> <p>1.10.4.1 The balance amount to make up the required Security Deposit of 5% of the contract value may be furnished in any one of the following forms.....</p>
2	Techno commercial bid Volume-I Book-I Technical Conditions of Contract, VOLUME-IA PART – II CHAPTER 1 SI No. 12, Clause 2.21.2, Note No. 2	<p>2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel of Conciliators.</p> <p>The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Procedure 2.3 enclosed in Vol 1A Part II Chapter 4. The Procedure 2.3 together with its Formats will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this GCC.</p> <p>The Contractor hereby agrees that BHEL may make any amendments or modifications to the provisions stipulated in the Procedure 2.3 enclosed in Vol 1A Part II Chapter 5 from</p>	<p>2. Any other person(s) can be appointed as Conciliator(s) who is/are mutually agreeable to both the parties from outside the BHEL Panel of Conciliators.</p> <p>The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in Procedure 2.3 enclosed in Vol 1A Part II Chapter 8. The Procedure 2.3 together with its Formats will be treated as if the same is part and parcel hereof and shall be as effectual as if set out herein in this GCC.</p> <p>The Contractor hereby agrees that BHEL may make any amendments or modifications to the provisions stipulated in the Procedure 2.3</p>

		time to time and confirms that it shall be bound by such amended or modified provisions of the Procedure 2.3 with effect from the date as intimated by BHEL to it.	enclosed in Vol 1A Part II Chapter 8 from time to time and confirms that it shall be bound by such amended or modified provisions of the Procedure 2.3 with effect from the date as intimated by BHEL to it.
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B. 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	Clause 1.7.2 of TCC VOLUME-IA PART-I CHAPTER - VII TERMS OF PAYMENT	Advance for Mobilization Not applicable	In reference to the Clause 2.13.1 of GCC; we would like to avail an advance payment 5%. We request you to kindly confirm.	Tender condition prevails i.e. Mobilization Advance is not applicable.
2	-	Tender Floated for Executing STG along with its accessories at Unit # 3	Execution of complete package of 2 units comprising Main Turbine, Generator, Condenser and its auxiliaries operationally & fiscally reasonable and cost effective to execute the works. Keeping the same in view we request BHEL to float the revised RFQ combining both the units i.e. Unit #3 & 4.	Unit 4 Main TG package will be floated separately based on work front availability.
3	SI No. 1 of Clause 1.2.6.2- Storage of materials of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page No.11 of 566)	Contractor shall make storage sheds in his own arrangements to provide appropriate storage at site for all NPCIL issued FIM's, Contractor's Plant & Machinery and Contractor's Equipments till the completion of the work	Kindly specify the dimensions & Specifaciton of shed for considering the cost in the estimation.	Size of storage shed shall be approx. 450 Sq.M. Shed shall be constructed of semi-permanent structures & as per contractor's own specification.

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
4	SI.No of 11 of clause 1.2.12.1 of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (PageNo.28 of 566)	Supply of materials and fabrication of dummy shafts for bearing contact checking, supply of dummy bearings and other arrangement for pendulum check are in the scope of the contractor	We request to kindly provide the tentative quantity by incorporating the Separate line item in the BOQ along with Payment break-up.	<p>Tentative Quantity of dummy shafts; Dia.435 mm - 1 No. length 500 mm approx.</p> <p>Dia.450 mm- 1 No. length 500 mm approx.</p> <p>Dia.574 mm-1 No. length 500 mm approx.</p> <p>Dia.580 mm-1 No. length 500 mm approx.</p> <p>Dia.619 mm-1 No. length 500 mm approx.</p> <p>The above dummy shafts are fabricated with MS pipes and duly machined.</p> <p>Dummy bearing for HP shaft pendulum check- Dia.435 mm – 1 No.</p> <p>Above dummy shafts and dummy bearing are supplied with in Lump sum quoted price.</p> <p>No separate payment shall be made for the dummy shafts and Dummy bearing .</p>
5	SI.No of 15 of clause 1.2.12.1 of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page No.29 of 566)	Temporary structure required during main turbine assembly & erection work: Temporary partitions in B grid at 16 m floor of Turbine building for an approximate length of 96 m and height of 3 m made of GI sheet with CS structural backing members of appropriate size and thickness shall be arranged by the contractor during TG erection work as part of scope of erection work of TG. The work	We request to kindly provide the tentative quantity by incorporating the Separate line item in the BOQ along with Payment break-up.	<p>Tentative quantity of temporary structure required during main turbine assembly & erection work shall be arrived by the contractor based on approximate length & height provided.</p> <p>No separate payment shall be made for the temporary structures & arrangements.</p>

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
		involves, supply fabrication erection and dismantling of the above temporary structures including welding electrodes, all consumables, manpower and P&M. No separate payment shall be made for the temporary structures & arrangements.		
6	-	All NDE will be part of scope of work and no separate payment shall be made.	Request BHEL to provide Separate payment terms for NDE works and also request to provide the detailed FQP Plan	<p>No separate payment terms for NDE works.</p> <p>Detailed FQP shall be provided during the time of execution.</p> <p>Turbine integral piping welding has the major NDE requirement and the tentative quantities are given below;</p> <ol style="list-style-type: none"> 1. Weld Joint Inspection by RT (Gamma Ray) : (25000 inch dia) 2. Weld Joint Inspection by UT (Ultrasonic Test) : (5000 inch dia) 3. Weld Joint Inspection by DPT (Dye Penetrant Test): (300 inch dia) <p>The NDE requirements of Main equipments are to be carried out by the agency as per working document and FQP.</p>

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
7	-	Scope includes supply of packer plates and shims including temporary support and tilting arrangements, scaffolding & platforms, man power, P&M, tools & tackles, all consumables (excluding welding electrodes and filler wires) etc	We consider that all the Permanent shims and Packer plates will be supplied by OEM. Hence this clause will not be applicable for the contractor- Please confirm	<p>Permanent packers/shims for the alignment of Equipment are not supplied by OEM at KKNPP.</p> <p>For levelling of all equipments (both static and rotating equipment) a tentative requirement of 5 MT of various thickness MS packer plates shall be arranged by the contractor.</p> <p>For minor adjustment required quantity of SS shims of thickness 1 mm or below shall be arranged.</p> <p>For Main TG, 8 MT(approx) of MS Packer plate of permanent packers (single thickness packer) are to be arranged by the contractor.</p> <p>Above Packer plates shall be arranged by contractor with in lump sum quoted price.</p>
8	SI.No. 1.2.13.2- CEA clearance on generator of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page No. 44 of 566)	The contractor shall submit the compiled documents along with application form to CEA and obtain clearance.	Only Manpower Assistance can be provided by PMPL. Pls confirm	<p>Tender condition prevails.</p> <p>Submission of complied documents along with application form to CEA (Central Electricity Authority) and obtaining of CEA clearance for Generator system are the scope of contractor.</p>
9	SI No. 01 of Note to Clause 1.2.16.1- of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page No.68 of 566)	Dearator concrete foundation opening shall be covered with temporary protective metal cover sheet with no extra cost.	We request BHEL to provide the temporary protective metal cover sheet on a cost free basis.	Tender condition prevails.

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
10	SI.No. 01 of Note to Clause 1.2.16.3 of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page No.71 of 566)	The scope includes supply of temporary support arrangements, arrangements of heavy duty skid rollers, channel beams, heavy duty jacks, packer plates and shims, equipment support structures, scaffolding & platforms, man power, P&M, tools & tackles, all consumables (excluding welding filler wire & electrode) etc	<p>Request BHEL to provide the Temporary Support Arrangements, Channel beams, Jacks on Cost free basis.</p> <p>We consider that all the Permanent shims and Packer plates will be supplied by OEM. Hence this clause will not be applicable for the contractor- Please confirm</p>	<p>BHEL shall not provide any Temporary Support Arrangements, Channel beams, Jacks.</p> <p>Supply of temporary support arrangements, arrangements of heavy duty skid rollers, channel beams, heavy duty jacks, Permanent packer plates and shims, equipment support structures are in the scope of contractor.</p>
11	Note to Clause No. 1.2.17.9- Acid pickling of TCC VOLUME-IA PART-I CHAPTER – II SCOPE OF WORKS (Page 83 of 566)	Supply of chemicals, acid cleaning tanks and pumps to be arranged by the contractor	<p>We request to kindly provide the volume of Chemical by incorporating the Separate line item in the BOQ along with separate Payment break-up.</p>	<p>Integral piping of the following oil system shall be subjected for Acid pickling.</p> <ol style="list-style-type: none"> 1. MKW (Generator seal oil system) – 10 MT (Approx) 2. MVA (10-40, 50,60-70) (Turbine lubricant supply & drain system) – 7 MT Approx <p>The above weight details & pipe size is mentioned in weight schedule. No separate payment for Acid pickling of pipes.</p> <p>No separate payment for Acid pickling of pipes.</p> <p>If acid pickling is not to be carried out inside plant premises due to various reasons, the contractor has to carry out same at outside, where the facility is available in nearby location. The cost involved for transportation, acid pickling shall be borne by the agency. No extra payment shall be allowed in this regard.</p>

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
12	TCC VOLUME-IA PART-I CHAPTER - VII TERMS OF PAYMENT (From Page No 277 to 287 of 566)	As per the BBU An amount of 10% had been held upto Receipt of Construction Completion Certificate (i.e CCC) and Material Accounting Statement.	Since the contractor scope is limited to Erection of the equipment supplied by BHEL/NPCIL and involvement of Labour component is very high. Withholding of 10% will effect the cash flow during the execution of Work. Keeping the same in view we request SHEL to consider percentage against CCC and Material Accounting Statement as 2.5 % instead of 10%.	Tender condition prevails.
13	TCC VOLUME-IA PART-I CHAPTER - VII TERMS OF PAYMENT (From Page No 277 to 287 of 566)		Request to provide a separate break up for activities like Condenser Tube expansion ,NDT etc	Terms of payment for Condenser Tube works are provided in Stage 5 of Erection of Main Condenser (Sl.no 7)

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