

Corrigendum 3 dated 16.06.2021 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. The following clauses are changed as below: -

Sl. No.	Ref. Clause	Existing Clause	Revised as Clause
1	Techno commercial bid Volume-I Book-I, <b>Technical Conditions of Contract, VOLUME-IA PART – II CHAPTER 1</b> <b>SI No. 5- SECURITY DEPOSIT</b> <b>Clause No. 1.10.4 - Mode of Deposit</b>	<p><b>1.10.4 Modes of deposit:</b></p> <p>1.10.4.1 The balance amount to make up the required Security Deposit of <b>2%</b> of the contract value may be furnished in any one of the following forms.....</p>	<p><b>1.10.4 Modes of deposit:</b></p> <p>1.10.4.1 The balance amount to make up the required Security Deposit of <b>5%</b> of the contract value may be furnished in any one of the following forms.....</p>
2	Techno-Commercial Bid Volume I Book I, <b>Notice Inviting Tender (NIT) Clause 19.0</b>	<p>BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on <a href="http://www.bhel.com">www.bhel.com</a> on “supplier registration page”) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.</p> <p><b>Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA.</b> In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.</p>	<p>BHEL shall be resorting to Reverse Auction (RA) (<b>Guidelines for Reverse Auction – 2021 as available on <a href="http://www.bhel.com">www.bhel.com</a> on “supplier registration page”</b>) for this tender. RA shall be conducted among the techno commercially qualified bidders.</p> <p><b>Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA.</b> In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.</p>

B. The clause 1.7.4 in Techno commercial bid Volume-I Book-I, Technical Conditions of Contract, VOLUME-IA PART – I CHAPTER 7 is revised as below:

1.7.4 The total agreed lumpsum price for the Turbine, Generator & its auxiliaries and other misc works shall be paid as Progressive Payment in Prorata against monthly running bills on completion of the each of the activities as per the following table.

SI No.	Item No.	Description of Major Item	Weightage in %
1	A1	<b>Main Turbine &amp; Auxiliaries</b> (In case BHEL / NPCIL decided to de-preservation of all the internal components of Main Turbine & re-preservation with required preservatives before box-up and heat tightening of HP turbine studs are not required to be carried out and permitted for temporary box-up . In such instance, 5% of item weightage will be deducted. i.e Max allowable % for this item is 23.75% )	25.00
2	A2	Turbine drive Unit for Feed pump	1.50
3	A3	Moisture Separator Re-Heater (MSR)	5.00
4	B	Generator and Excitation system	8.00
5	C1	Main Condenser	15.00
6	C2	TDFP condenser	0.75
7	D	Rotary Equipments	12.50
8	E1	Deaerator tank & column (Vertical)	1.50
9	E2	HPH and LPH	0.80
10	E3, E4	Static equipment	5.00
11	E5	Fire Extinguishing Grid	0.25
12	A5	Valve blocks	1.50
13	A4	Cross over piping	3.00
14	F1	Integral Piping	8.00
15	F2	Valves	0.25
16	F3	Pipe Supports	0.25
17	H2	Fabrication & Erection of Metal structures	3.00
18	H3	Supply, fabrication and erection of SS liner and Trays	0.50
19	A6	Sheathing covers for Turbine, Generator & Exciter	0.25
20	I1	Grit blasting and supply and application of primer	0.75
21	I2	Supply & Application of paint	3.65

Sl No.	Item No.	Description of Major Item	Weightage in %
22	I3	Removal of existing paint	0.10
23	L3 - L6	Concreting & Grouting Works	2.00
24	L8.1	Manpower assistance for repair, preservation and system pre-handing over checks	0.75
25	L8.3	Supply of Consumables for Re-preservation works of Equipment & Piping	0.30
26	L10	Supply, machining of permanent packer plates and shims for all equipments	0.40
<b>TOTAL</b>			<b>100.00</b>

Sl. No.	Item no.	Terms of Payment ( Payment is on Pro-rata basis)						
1	A1	Main Turbine	<b>Weightage 25%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	2%	5x1=5%	3x5=15%	4%	5%	
		Erection of Main Turbine	2nd stage EP blue matching Report	Placement of all the bearing pedestals over the temporary packers , KLT of bearing casings	Assembly of LPC casing including the permanent vertical joint with the application of steam mastic compound	Placement of HPC bottom and top half over the palm keys	Laser alignment centering of all the cylinder casing, bearing pedestal casing	
			6	7	8	9	10	
			3x1=3%	1%	3%	3x2=6%	2%	
			Centering of LP cylinder bottom half components	Centering of HP cylinder bottom half components	Coupling alignment of all the rotors	Placement and centering of LP cylinder top half components including inner casing	Placement and centering of HP cylinder top half components including inner casing	

				11	12	13	14	15			
				3%	3x3=9%	2%	3%	3x3=9%			
		Preliminary box up of HP cylinder		Preliminary box up of all the LP cylinders		Erection and alignment of governing system components	Response check of TSI	Final box up of all the LP cylinders			
		16		17		18	19	20	21		
		6%		4%		3%	5%	5%	5%		
		Final box up of HP turbine & heat tightening		Final coupling alignment and coupling of all the rotors after deck floating		Final box up of all the bearing pedestals	Barring gear	CCC	Material Accounting Statement		
2	A2	Turbine drive feed pumps	<b>Weightage 1.5%</b>								
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.								
		Stage	1	2	3	4	5	6			
		Work	2%	10%	10%	5%	5%	10%			
		Erection of TDFF	Blue matching of packer plates	Erection of foundation frames	Assembly of HP & LP casing	Placement of bearing pedestal, centering of cylinder casing	Placement and centering of cylinder bottom half components	Placement of rotor and centering of casing w.r.t. rotor			
			7	8	9	10	11	12			
			5%	10%	5%	10%	3%	5%			
			Placement and centering of cylinder top half components	Preliminary box up of casing, dynamometer loading of casing	Installation of field control panel and field calibration of TSI	Final box up of cylinders including heat tightening of the parting plane bolts	Installation and alignment of Reduction gear unit	Final coupling alignment and coupling of the rotors after deck floating			

			13	14	15	16	17	
			3%	2%	5%	5%	5%	
Erection and alignment of governing system components	Completion of final box up of the bearing pedestals after oil flushing	TDFF on barring gear	CCC	Material Accounting Statement				
3	A3	MSR	<b>Weightage 5%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
			<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
			<b>Work</b>	<b>30%</b>	<b>30%</b>	<b>20%</b>	<b>10%</b>	<b>5%</b>
			<b>Erection of MSR</b>	Assembly, erection, welding and NDT of Moisture separator and segregator	Assembly, erection, welding and NDT of Re-Heater	Hydro test and Drying of MSR	FME inspection and box up of MSR	CCC
4	B	<b>Generator and Excitation system</b>	<b>Weightage 8%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
		<b>Work</b>	<b>2%</b>	<b>2%</b>	<b>3%</b>	<b>10%</b>	<b>4%</b>	
		<b>Erection of Generator &amp; Exciter</b>	2nd stage EP blue matching Report	Fixing of Trunnion	Centering of end parts	Erection of stator	HT of H2 Coolers	
			<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	
			<b>3%</b>	<b>5%</b>	<b>3%</b>	<b>5%</b>	<b>3%</b>	
		Assy of end part with stator	Air hold test of stator	HV test Report of bushing	HV test Report of Stator	KLT of bearing pedestal & HT of EOT		

			11	12	13	14	15	
			2%	5%	2%	5%	5%	
		Purge test of rotor	Threading of rotor	Placement of bearing pedestal	Installation of permanent packer	Installation of bank of resistors		
		16	17	18	19	20		
		3%	2%	10%	6%	3%		
		Reaming & honing	Exciter air cooler HT	Assy & Installation of Exciter	Pendulum check & Coupling	TSI & response checks		
		21	22	23	24			
		5%	2%	5%	5%			
		Box up of generator & exciter	Box up of bearing pedestals	CCC	Material Accounting Statement			
5	C1	Main Condenser	<b>Weightage 15%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	6
		Work	Completed/ Excluded from scope	3x2=6%	3x4= 12%	3x4=12%	3x5=15%	3x8=24%
		Erection of Main Condenser	Erection Report of hot well	Welding Inspection Report, NDT Report of hot well. Note: Stage 2 applicable for Unit 4 only. Stage 2 not applicable for Unit 3 and payment % of stage 2 will be paid along with stage 3	Welding Inspection Report, Erection Report, NDT Report of Tube System	Welding Inspection Report, Erection Report, NDT Report of Sidewall plates	WIR,ER, NDT Report of Lower & upper dome	WIR,ER, NDT & Integrity test Report of Tubing works

			payment.				
			7	8	9	10	11
			3x3=9%	3x2=6%	3x2=6%	5%	5%
			WIR,ER, NDT Report of neck welding with Turbine	WIR,ER of Water box	Hydrofill test Report	CCC	Material Accounting Statement.
6	C2	TDFP condenser	<b>Weightage 0.75%</b>				
			The following percentage weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.				
		Stage	1	2	3	4	5
		Work	40%	40%	10%	5%	5%
		Erection of TDFP condenser	Erection Report  Note: Stage 1 applicable for Unit 4 only. Stage 1 not applicable for Unit 3 and payment % of stage 1 will be paid after completion of stage 2.	Neck welding IR	Hydrofill test Report	CCC	Material Accounting Statement.

7	D (D1, D2.1, D2.2, D3, D4, D5.1, D5.2, D6, D7, D8)	Rotary equipments	<b>Weightage 12.5%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4		
		Work	70%	20%	5%	5%		
		Erection of Rotary equipments	Erection Report	Alignment Report/ Testing Report	submission and acceptance of CCC	Material Accounting Statement.		
8	E1	Erection and assembly of Ddeaerator tank & column (Vertical)	<b>Weightage 1.5%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	30%	30%	20%	10%	5%	
		Erection and assembly of Ddeaerator tank & column (Vertical)	Assembly, erection, welding and NDT of De- aerator tank	Assembly, erection, welding and NDT of De- aerator column	Hydro test and drying of Deaerator	Completion of FME inspection & box up	CCC	
			6					
			5%					
		Material Accounting Statement.						

9	E2	HPH and LPH	<b>Weightage 0.8%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	Completed/Excluded from scope	30%	60%	5%	5%	
		Erection of HPH and LPH	Erection of the heaters over the foundation pedestal, verticality check and torque tightening of foundation bolts	Completion of mounting of accessories, instruments	Completion of hydro test, FME inspection & box up	CCC	Material Accounting Statement.	
10	E3, E4	Static equipments	<b>Weightage 5%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4		
		Work	70%	20%	5%	5%		
		Erection of Static equipments	Erection Report	Alignment Report/ Testing Report	Submission and acceptance of CCC	Material Accounting Statement.		

11	E5	Erection of Fire Extinguishing Grid	Weightage 0.25%					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	2 x 15 = 30%	2 x 20 = 40%	20%	5%	5%	
		Erection of Fire Extinguishing Grid	Completion of fire extinguishing grid erection in TDFP oil tank room	Completion of fire extinguishing grid erection in oil cooler area	Completion of fire extinguishing grid erection in turbine governing oil tank area	CCC	Material Accounting Statement.	
12	A5 (A5.1, A5.2, A5.3)	Valve blocks	Weightage 1.5%					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	6
		Work	30%	30%	20%	10%	5%	5%
		Erection of Valve Blocks	Erection, alignment and grouting	Disassembly and de-preservation	Blue matching of components and reassembly of valve block	Installation of servomotor, limit switch and coupling.	CCC	Material Accounting Statement
13	A4 (A4.1, A4.2, A4.3)	Cross over piping	Weightage 3%					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	6
		Work	30%	40%	10%	10%	5%	5%
		Erection of Cross over Piping	Erection report	Welding report	Welding inspection report	CRR, FME Inspection & Release of springs	submission and acceptance of CCC	Material Accounting Statement

14	F1 (F1.1, F1.2)	Integral Piping	<b>Weightage 8%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	6
		Work	30%	35%	10%	10%	3%	2%
		Erection of Integral Piping	Fit up & Welding Reports	Erection Reports	NDT reports	CRR and Hydrotest	FME inspection	Digitisation of RT Films
		Stage	7	8				
		Work	5%	5%				
15	F2	Valves	<b>Weightage 0.25%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	30%	40%	20%	5%	5%	
		Erection of Valves	Valve testing report	Erection report	Welding Inspection Report/ Flange Alignment Report	submission and acceptance of CCC	Material Accounting Statement.	
16	F3	Pipe Supports	<b>Weightage 0.25%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2	3	4	5	
		Work	40%	40%	10%	5%	5%	
		Erection of Pipe Supports	Erection report	Welding report	NDT report	submission and acceptance of CCC	Material Accounting Statement.	

17	H2	<b>Fabrication &amp; Erection of Metal structures</b>	<b>Weightage 3%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
		<b>Work</b>	<b>40%</b>	<b>40%</b>	<b>10%</b>	<b>5%</b>	<b>5%</b>	
		<b>Fabrication &amp; Erection of Metal structures</b>	Weight Analysis Report, Fabrication & Erection report	Welding report	NDT report	Submission and acceptance of CCC	Material Accounting Statement.	
18	H3	<b>Supply, fabrication and erection of SS liner and Trays</b>	<b>Weightage 0.5%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
		<b>Work</b>	<b>40%</b>	<b>30%</b>	<b>20%</b>	<b>5%</b>	<b>5%</b>	
		<b>Supply, fabrication and erection of SS liner and Trays</b>	Incoming Material Inspection Report	Erection Report with Weight Analysis	Testing Reports with Weight Analysis Report	Submission and acceptance of CCC	Material Accounting Statement.	

19	A6	<b>Sheathing covers for Turbine, Generator &amp; Exciter</b>	<b>Weightage 0.25%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
		<b>Work</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>	<b>10%</b>	<b>5%</b>
		<b>Erection of sheathing covers (Noise enclosures) for Turbine, Generator &amp; Exciter</b>	Assembly, welding and erection of HPC cover	Assembly, welding and erection of cover between LPC	Assembly, welding and erection of cover of LPC middle part	Assembly, welding and erection of cover of generator and exciter	Final installation of HPC cover, cover between LPC and middle part of LPC after completion of insulation works	CCC
			7					
			5%					
20	I1	<b>Grit blasting and supply and application of primer</b>	<b>Weightage 0.75%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>				
		<b>Work</b>	<b>95%</b>	<b>5%</b>				
		<b>Grit blasting and supply and application of primer</b>	Grit blasting, Painting & inspection Report	CCC				

21	I2 (I2.1 ,I2.2, I2.3)	Supply & Application of paint	<b>Weightage 3.65%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2				
		Work	95%	5%				
22	I3	Supply & Application of paint	Painting & inspection Report	CCC				
		Removal of existing paint	<b>Weightage 0.1%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1	2				
		Work	95%	5%				
23	L3, L4, L5, L6	Concreting & Grouting Works	<b>Weightage 2%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		Stage	1		2			
			Work		95%	5%		
		L3	Formwork (0.1%)	Completion Report	CCC			
		L4	Plain Cement Concrete (0.2%)	Concreting Report	CCC			
		L5	Grouting of non-shrink Grout (1.5%)	Grouting Report	CCC			
		L6	Secondary concrete (0.2%)	Concreting Report	CCC			

24	L8.1	<b>Manpower assistance for repair, preservation and system pre-handing over checks</b>	<b>Weightage 0.75%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>					
		<b>Work</b>	<b>100%</b>					
25	L8.3	<b>Supply of Consumables for Represer- vation works of Equipment &amp; Piping</b>	<b>Weightage 0.3%</b>					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	<b>1</b>	<b>2</b>	<b>3</b>			
		<b>Work</b>	<b>90%</b>	<b>5%</b>	<b>5%</b>			
		<b>Supply of Consumables for Represer- vation works of Equipment &amp; Piping</b>	Incoming Material Inspection Report	CCC	Material Accounting Statement.			

26	L10	<b>Supply, machining of permanent packer plates and shims for all equipment</b>	Weightage 0.4%					
			The following percentage of weightage will be paid on submission of respective reports along with RA bill after completion of relevant activities of the work and acceptance of Engineer -in- Charge.					
		<b>Stage</b>	1	2	3			
		<b>Work</b>	90%	5%	5%			
		<b>Supply, machining of permanent packer plates and shims for all equipment</b>	Incoming Material Inspection Report	Erection report	CCC & Material Accounting Statement.			

C. 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 – II Scope of Works Clause no. 1.2.12.1, SI.No of 11 (Page no.28 of 608)	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	Please provide the tentative quantity by incorporating the separate line item in the BOQ along with Payment break-up.	Tentative quantity for dummy shaft is mentioned in SI. No of 11 of clause no. 1.2.12.1 of VOLUME-IA PART-I CHAPTER – II Scope of Works TCC (Page No.29 of 608). Dummy shafts and dummy bearing are to be supplied with in Lumpsom quoted price. No separate BOQ is envisaged.
2	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause no. 1.2.12.1, SI. No. 14 (Page No. 30 of 608)	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	Please provide the tentative quantity by incorporating the separate line item in the BOQ along with Payment break-up.	Tentative quantity of Temporary structure required during main turbine assembly & erection work shall be arrived by contractor based on approximate length & height provided. No separate payment shall be made for the temporary structures & arrangements.

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
		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 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.		
3	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause no. 1.2.12.2, SI. No. 5 ( Page No.34 of 608)	All NDE will be part of scope of work and no separate payment shall be made.	Please provide Separate payment terms for NDE works and also request to provide the detailed FQP Plan	NDE shall be part of scope of work. No separate payment shall be made for NDE. FQP plan shall be shared during execution based on working drawings.
4	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause no. 1.2.12.3, SI. No. 2 ( Page No.34 of 608)	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	Permanent shims and Packer plates will be supplied by OEM. Hence this clause will not be applicable for the contractor- Please confirm.	Permanent shims & packers are not in the scope of OEM Russia/ NPCIL/ BHEL. Supply of packer plates and shims including temporary support are in the scope of the contractor.
5	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works Clause no. 1.2.13.2 (Page No.45 of 608)	The contractor shall submit the compiled documents along with application form to CEA and obtain clearance.	Only Man power Assistance can be provided by PMPL. Pls confirm	Submission of application along with compiled documents to CEA ,liaison with CEA, arranging of inspection and obtaining clearance from CEA are in the scope of contractor
6	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works SI.No.01 of Note for Clause no. 1.2.16.1 (Page No.71 of 608)	De-aerator concrete foundation opening shall be covered with temporary protective metal cover sheet with no extra cost.	Please 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
7	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works SI.No.01 of Note for Clause no. 1.2.16.3 (Page No.74 of 608)	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>a) Please provide the Temporary Support Arrangements, Channel beams, Jacks on Cost free basis.</p> <p>b) 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>a) Tender condition prevails.</p> <p>b) Permanent shims &amp; packers are not in the scope of OEM Russia/ NPCIL/ BHEL. Supply of packer plates and shims including temporary support are in the scope of the contractor.</p>
8	TCC VOLUME-IA PART-I CHAPTER – II Scope of Works SI.No.01 of Note for SI.No. 1.2.17.09 (Page 87 of 608)	Supply of chemicals, acid cleaning tanks and pumps to be arranged by the contractor	Please provide the volume of Chemical by incorporating the Separate line item in the BOQ along with separate Payment break-up.	Approx. quantity of pickling is mentioned in sl.no 3 in Note for clause 1.2.17.9 of VOLUME-IA PART-I CHAPTER – II Scope of Works TCC (Page No.87 of 608).
9	TCC VOLUME-IA PART-I CHAPTER – VII Terms of Payment (From Page No 294 to 308 of 608)	As per the BBU an amount of 10% had been held upto Receipt of Construction Completion Certificate (i.e CCC) and Material 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 affect the cash flow during the execution of Work. Keeping the same in view we request BHEL to consider percentage against CCC and Material Accounting Statement as 2.5 % instead of 10%.	Tender condition prevails. Please refer terms of payment clause 1.7.4 at SI No. B above
10	TCC VOLUME-IA PART-I CHAPTER – VII Terms of Payment (From Page No 294 to 308 of 608)		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 6 of Erection of Main Condenser (Item no C1) in revised terms of payment clause 1.7.4 at SI No. B above

SI No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
11	TCC VOLUME-IA PART-I CHAPTER – VII Terms of Payment (From Page No 294 to 308 of 608)		we request BHEL to provide weightage % towards payment for SI.No.3 – Supply, Machining of Permanent packer plates and shims for all equipment's (i.e. L10) of Painting & Miscellaneous works.	Separate payment weightage % is provided for Supply, Machining of Permanent packer plates and shims for all equipment's (i.e. L10).  Please find the revised terms of payment clause 1.7.4 at SI No. B above.

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