

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL\_MEC/25/066** for the work of “Balance work of Handling of materials at BHEL/ Client's Stores/ Storage Yard and transportation to site Erection, Testing, Assistance for commissioning & Trial Operation including supply & application of final painting and Handing Over of Flue Gas Desulphurization System (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems at 2X500 MW NTPC Mauda, Stage- I, Maharashtra”.

**A) Time Extension:** Clause No. 1.0 Salient Features of NIT in NOTICE INVITING TENDER is revised as below:

Sl. No.	Clause No.	Existing in Tender	Extended vide Corrigendum - 1	Extended vide Corrigendum - 2	Extended vide Corrigendum - 3	Extended vide Corrigendum - 4	Revised As
1	Sl. No. v) DUE DATE & TIME OF OFFER SUBMISSION.	Date: 15/01/2025, Time: 10:00 Hrs	Date: 22/01/2025, Time: 10:00 Hrs	Date: 29/01/2025, Time: 10:00 Hrs	Date: 05/02/2025, Time: 10:00 Hrs	Date: 12/02/2025, Time: 10:00 Hrs	<b>Date: 17/02/2025, Time: 10:00 Hrs</b>
2	Sl. No. vi) OPENING OF TENDER	Date: 15/01/2025, Time: 16:30 Hrs	Date: 22/01/2025, Time: 16:30 Hrs	Date: 29/01/2025, Time: 16:30 Hrs	Date: 05/02/2025, Time: 16:30 Hrs	Date: 12/02/2025, Time: 16:30 Hrs	<b>Date: 17/02/2025, Time: 16:30 Hrs</b>

**B) Modification in Notice Inviting Tender (NIT):** Technical Criteria (Sl. No. B.2.3 and B.2.4) of Pre-Qualifying Requirements (PQR), ANNEXURE – 1 of NIT is revised as below;

EXISTING CLAUSE		REVISED CLAUSE	
Sl. No.	PRE QUALIFICATION CRITERIA	Sl. No.	PRE QUALIFICATION CRITERIA
B.2.3	Bidder should have Executed at least 4890 MT of Erection of Structures/ ESP/ Non-Pressure Parts/ Ducting/ Pressure Parts/ Power Cycle Piping/ LP piping/ CW piping/ Rotary machines or any combination of these in power/industrial project/plant within a common period of twelve consecutive months in cumulative of two running/completed contracts in the last Ten (10) years as on latest date of offer submission.	B.2.3	Bidder should have Executed at least <b>4170 MT</b> of Erection of “Structures/ ESP/ Non-Pressure Parts/ Ducting/ Pressure Parts/ Power Cycle Piping/ LP piping/ CW piping/ Rotary machines or any combination of these in power/ industrial project/ plant within a common period of twelve consecutive months in cumulative of two running/completed contracts in the last Ten (10) years as on latest date of offer submission.

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B.2.4	Bidder should have Executed at least 3660 MT of Erection of Structures/ ESP/ Non-Pressure Parts/ Ducting/ Pressure Parts/ Power Cycle Piping/ LP piping/ CW piping/ Rotary machines or any combination of these in power/industrial project/ plant within a period of twelve consecutive months in one running/completed contract in the last Ten (10) years as on latest date of offer submission.	B.2.3	Bidder should have Executed at least <b>2780 MT</b> of Erection of “Structures/ ESP/ Non-Pressure Parts/ Ducting/ Pressure Parts/ Power Cycle Piping/ LP piping/ CW piping/ Rotary machines or any combination of these in power/industrial project/plant within a period of twelve consecutive months in one running/completed contract in the last Ten (10) years as on latest date of offer submission.
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**C) Modification in Technical Conditions of Contract (TCC): Clause 4.1 of Chapter - IV, Clause 7.1 & 7.2 of Chapter - VII, Clause 9.0 of Chapter – IX, Sl. No. 2 of Part A of Chapter – XXII and Part B of Chapter - XXII of TCC are revised as below;**

EXISTING CLAUSE						REVISED CLAUSE					
Clause No. of TCC						Clause No. of TCC					
Clause 4.1 of Chapter – IV	4.0	T&PS AND MMES TO BE DEPLOYED BY CONTRACTOR				Clause 4.1 of Chapter – IV	4.0	T&PS AND MMES TO BE DEPLOYED BY CONTRACTOR			
	4.1.	Tools and Plants:  List of Tool & Plants to be deployed by the contractor – The following minimum major Tools & Plants (T&P) shall be arranged by the Contractor within the quoted rate for execution of this contract:					4.1.	Tools and Plants:  List of Tool & Plants to be deployed by the contractor – The following minimum major Tools & Plants (T&P) shall be arranged by the Contractor within the quoted rate for execution of this contract:			
	S. N.	Description of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks		S. N.	Description of Equipments	Capacity (Minimum)	Minimum Quantity	Remarks
	1.	Tyre mounted / mobile crane (Telescopic boom, Hydraulically operated with turret function)	Above 75/80 MT and upto 120 MT	02 Nos	To be deployed as per instruction of BHEL Engineer.		1.	Tyre mounted / mobile crane (Telescopic boom, Hydraulically operated with turret function)	Above 75/80 MT and upto 120 MT	02 Nos	To be deployed as per instruction of BHEL Engineer.
	2.	New generation Pick & carry type tyre mounted mobile crane.	18/20/23 MT	03 Nos	To be deployed as per instruction		2.	New generation Pick & carry type tyre mounted mobile crane. (Farana). <b>Hydra is not allowed.</b>	18/20/23 MT	03 Nos	To be deployed as per instruction

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			(Farana). <b>Hydra is not allowed.</b>			n of BHEL Engineer.							of BHEL Engineer.	
		3.	Mixer for Grouting of equipment foundations			<b>As per requirement</b>			3.	Mixer for Grouting of equipment foundations			<b>As per requirement</b>	
		4.	Trailer with prime mover	20 MT	02 Nos	To be deployed as per instruction of BHEL Engineer.			4.	Trailer with prime mover	20 MT	02 Nos	To be deployed as per instruction of BHEL Engineer.	
		5.	Trailer with prime mover	40 MT	As required	To be deployed as per instruction of BHEL Engineer.			5.	Trailer with prime mover	40 MT	As required	To be deployed as per instruction of BHEL Engineer.	
		6.	Tractor Trailer	15/20MT	As required	To be deployed as per instruction of BHEL Engineer.			6.	Tractor Trailer	15/20MT	As required	To be deployed as per instruction of BHEL Engineer.	
		7.	Truck	Adequate capacity	As required	To be deployed as per instruction of BHEL Engineer.			7.	Truck	Adequate capacity	As required	To be deployed as per instruction of BHEL Engineer.	
		8.	Slings, 'D'-Shackles, Max Puller.	01 MT TO 10MT	As required	To be deployed as per instruction			8.	Slings, 'D'-Shackles, Max Puller.	01 MT TO 10MT	As required	To be deployed as per instruction	

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[illegible]

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[illegible]

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			Chain pulley blocks of various & Suitable capacities		As Required	As per the instructions of BHEL Engineer				30.	Baking & Holding oven with thermostat and temperature gauge for welding electrodes	As required	As Required	
			Baking oven with thermostat and temperature gauge for welding electrodes	As required	As Required					31.	Portable oven for welding electrodes	As required	As Required	
			Baking & Holding oven with thermostat and temperature gauge for welding electrodes	As required	As Required					32.	Electric winch	2/3/5/10/15 MT capacity	4 Nos	As per the instructions of BHEL Engineer
			Portable oven for welding electrodes	As required	As Required					33.	Hand winch	0.5 MT capacity	As Required	
			Electric winch	2/3/5/10/15 MT capacity	4 Nos	As per the instructions of BHEL Engineer				34.	Scaffolding materials with clamps.	Suitable for working at various heights	As required	For Alignment, welding & Insulation works
			Hand winch	0.5 MT capacity	As Required					35.	Profile making M/c	For aluminium sheet cladding work	as required	
			Scaffolding materials with clamps.	Suitable for working at various heights	As required	For Alignment, welding & Insulation works				36.	Nibbling M/c	For refractory and other required activities	as required	
			Profile making M/c	For aluminium sheet	as required					37.	Shearing M/c		as required	
										38.	Portable grinding M/c	As required	as required	
										39.	Portable drilling M/c	As required	as required	
										40.	Hoisting and pulley devices/pulleys	As required	As required	
										41.	Fire retardant tarpaulins	As required	As required	

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			cladding work							42.	Fire extinguisher	As required	as required	
			Nibbling M/c	For refractory and other required activities	as required					43.	Hydraulic Jacks	10/20/50/100 MT	as required	
			Shearing M/c		as required					44.	Dewatering pumps		as required	
			Portable grinding M/c	As required	as required					45.	Various sizes of clamps/ fixtures for assembling		as required	
			Portable drilling M/c	As required	as required					46.	Magnetic particle testing equipment-Dry & Wet Type		as required	
			Hoisting and pulley devices/pulleys	As required	As required					47.	Spectrometer for metal testing		as required	
			Fire retardant tarpaulins	As required	As required					48.	Alco meter for paint thickness checking		as required	
			Fire extinguisher	As required	as required					49.	Hand Operated Megger 500 / 1000 V		as required	
			Hydraulic Jacks	10/20/50/100 MT	as required					50.	Tong Tester 10, 20 Or 50 Amp + / - 3 % Accuracy		as required	
			Dewatering pumps		as required					51.	Digital and Analogue Multimetres		as required	
			Various sizes of clamps/ fixtures for assembling		as required					52.	U Tube Manometer 0-2000 mm Water Column		as required	
			Magnetic particle testing equipment-Dry & Wet Type		as required					53.	Inclined Manometer 0-50 mm Water Column		as required	
			Spectrometer for metal testing		as required					54.	Calibrated Pneumatic Torque wrench		4 nos.	
			Alco meter for paint thickness checking		as required					55.	<del>Bolt Tension Calibrator</del>		<del>as required</del>	
										56.	Safety Net		As required	<b>To be deployed from beginning</b>

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			Hand Operated Megger 500 / 1000 V		as required	
			Tong Tester 10, 20 Or 50 Amp + / - 3 % Accuracy		as required	
			Digital and Analogue Multimetres		as required	
			U Tube Manometer 0-2000 mm Water Column		as required	
			Inclined Manometer 0-50 mm Water Column		as required	
			Calibrated Pneumatic Torque wrench		4 nos.	
			<del>Bolt Tension</del> Calibrator		<del>as</del> required	
			Safety Net		As required	<b>To be deployed from beginning</b>
			Man lifter for bolted structure bolt tightening	Min 120ft boom	02 Nos	As per the instructions of BHEL Engineer
			Plate rolling/bending machine		As required	As per the instructions of BHEL Engineer (For fabrication)

		57.	Man lifter for bolted structure bolt tightening	Min 120ft boom	02 Nos	As per the instructions of BHEL Engineer
		58.	VOID	VOID	VOID	VOID
		59.	PUG machine		As required	As per the instructions of BHEL Engineer (For fabrication)



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		PUG machine		As required	As per the instructions of BHEL Engineer (For fabrication)																		
<b>Clause 7.1 &amp; 7.2 of Chapter - VII</b>	<b>7.0</b>	<b>Terms of Payment:</b>				<b>Clause 7.1 &amp; 7.2 of Chapter - VII</b>	<b>7.0</b>																
	7.1.	Pro-rata payment shall be based on the quantities of individual item and item rate of individual items as derived in BOQ CUM RATE SCHEDULE.					7.1																
	7.1.1.	Bidders to note that this is an ' <b>Item rate contract</b> '. Payment shall be made for the actual quantities of work executed at the Unit item rate .					7.1.1																
	7.1.2.	<b>Milestones</b> payment for each Item heads identified in BOQ shall be on Pro-Rata basis common to all PGs and shall be released on achievement of the following stage / milestones events (as per CI no 7.2.2.1 to 7.2.2.8 of the following table) for the tonnage erected.					<table border="1"> <thead> <tr> <th>Sl no</th><th>Contract (Main Package) Identification ----&gt;</th><th>Structure</th><th>Non-Pressure Parts</th><th>Rotating Machine</th><th>Hanger &amp; Support</th><th>Insulation</th><th>Piping</th></tr> </thead> <tbody> <tr> <td></td><td>Rate schedule Identification -----&gt;</td><td>1A</td><td>Non-Pressure Parts (Ducts/dampers, Tanks, etc)</td><td>Rotating Machine etc 3A</td><td>H &amp; S 6A</td><td>1. Iron Components 5A  2. Wool mattresses - 5A  3. Aluminium sheeting – 5A</td><td>1. CS piping 4A  2. SS piping 4B</td></tr> </tbody> </table>	Sl no	Contract (Main Package) Identification ---->	Structure	Non-Pressure Parts	Rotating Machine	Hanger & Support	Insulation	Piping		Rate schedule Identification ----->	1A	Non-Pressure Parts (Ducts/dampers, Tanks, etc)	Rotating Machine etc 3A	H & S 6A	1. Iron Components 5A  2. Wool mattresses - 5A  3. Aluminium sheeting – 5A	1. CS piping 4A  2. SS piping 4B
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	7.1.2	Stage/ Payments	Milestone	% Payment																			
	7.1.2.1	Completion of air & gas tightness test for Ducts		2%																			
	7.1.2.2	Total Water-run Test of Absorber		2%																			
	7.1.2.3	Handing Over of floors to civil agency for Casting (to be paid on pro-rata basis)		3%																			

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		7.1.2.4	Painting Completion (to be paid on pro-rata basis)	3%			<b>Pro Rata Payments (85%)</b>						
		7.1.2.5	Area cleaning, temporary structures cutting/removal and return of scrap	1%		7.1.1.1	On Pre-assembly wherever applicable (if not applicable, this portion shall be clubbed with placement in position)	20%	20%	20%	15%	--	15%
		7.1.2.6	Punch List points/pending points liquidation	2%		7.1.1.2	Placement in position	20%	20%	20%	25%	50%	15%
		7.1.2.7	Material Reconciliation	1%		7.1.1.3	Alignment	20%	10%	20%	15%	15%	10%
		7.1.2.8	Completion of Contractual Obligation	1%		7.1.1.4	Welding/ Bolting/ Fixing	20%	25%	20%	30%	20%	20%
			<b>Total for Stage /Milestone Payments (15%)</b>	<b>15%</b>		7.1.1.5	Completion of non-destructive examination & Stress relieving/ Heat treatment (if not applicable, then this portion to be paid	5%	10%	5%		--	15%
	<b>7.2.</b>	-Void-											

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			7.1.2.6	Punch List points/pending points liquidation	2%
			7.1.2.7	Material Reconciliation	1%
			7.1.2.8	Completion of Contractual Obligation	1%
				<b>Total for Stage /Milestone Payments (15%)</b>	<b>15%</b>
			<b>7.2</b> For BOQ description in <b>PART- B - BALANCE WORK ITEMS</b>		
			7.2.1 Progressive Pro-rata payment shall be based on the quantities of individual item and item rate of individual items viz. Pre-assembly, Placement, Alignment, Welding etc. as derived in BOQ CUM RATE SCHEDULE for Part-B. For balance 15% corresponding to Milestone, per MT payment shall be released as per Terms mentioned in below sl no. 7.2.2		
			7.2.2 Bidders to note that this is an ' <b>Item rate contract</b> '. Payment shall be made for the actual quantities of work executed at the Unit item rate .		
			<b>Milestones</b> payment for each Item heads identified in BOQ shall be on Pro-Rata basis common to all item description and shall be released on achievement of the following stage / milestones events (as per CI no 7.2.2.1 to 7.2.2.8 of the following table) for the tonnage erected.		
			<b>7.2.2</b>	<b>Stage/ Milestone Payments</b>	<b>% Payment</b>
			7.2.2.1	Completion of air & gas tightness test for Ducts	2%
			7.2.2.2	Total Water-run Test of Absorber	2%
			7.2.2.3	Handing Over of floors to civil agency for Casting (to be paid on pro-rata basis)	3%
			7.2.2.4	Painting Completion (to be paid on pro-rata basis)	3%
			7.2.2.5	Area cleaning, temporary structures cutting/removal and return of scrap	1%

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

						7.2.2.6	Punch List points/pending points liquidation	2%
						7.2.2.7	Material Reconciliation	1%
						7.2.2.8	Completion of Contractual Obligation	1%
							<b>Total for Stage /Milestone Payments (15%)</b>	<b>15%</b>
Clause 9.0 of Chapter - IX	9.0	Bill of Quantity: Summary of Weight of BOQ under the Scope for the Package :				Clause 9.0 of Chapter - IX	9.0 Bill of Quantity: Summary of Weight of BOQ under the Scope for the Package:  Part-A – Fresh Work Items	
		SN	Description of work	UOM	Quantity to			
		1	STRUCTURE					
		1.1	Pre Assembly	MT	4,917.88			
		1.2	Placement in Position	MT	4,944.39			
		1.3	Alignment	MT	6,074.41			
		1.4	Welding /Bolting/Fixing	MT	6,131.40			
		1.5	Completion of NDE & SR/Heat treatment	MT	6,147.66			
		1.6	Milestones	MT	4,944.39			
		2	Non Pressure Parts Including Tanks					
						SUB-TOTAL		8939.4

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

		2.1	Pre Assembly	MT	3,435.16			Part-B- Balance work items			
		2.2	Placement in Position	MT	3,482.93			SN	Description of work		Weight
		2.3	Alignment	MT	3,801.97					UOM	in MT
		2.4	Welding /Bolting/Fixing	MT	3,882.55			1	Structure		
		2.5	Completion of NDE & SR/Heat treatment	MT	3,975.88			1.1	Pre Assembly	MT	0.00
		2.6	Milestones	MT	3,485.13			1.2	Placement in Position	MT	26.51
		3	Rotating Machines					1.3	Alignment	MT	1,156.53
		3.1	Pre Assembly	MT	894.95			1.4	Welding /Bolting/Fixing	MT	1,213.52
		3.2	Placement in Position	MT	902.67			1.5	Completion of NDE & SR/Heat treatment	MT	1,229.78
		3.3	Alignment	MT	929.98			1.6	Milestones	MT	1,229.78
		3.4	Welding /Bolting/Fixing	MT	929.98			2	Non Pressure Parts Including Tanks		
		3.5	Completion of NDE & SR/Heat treatment	MT	929.98			2.1	Pre Assembly	MT	0.00
		3.6	Milestones	MT	902.67			2.2	Placement in Position	MT	47.77
		4	Mineral Wool					2.3	Alignment	MT	366.81
								2.4	Welding /Bolting/Fixing	MT	447.39
								2.5	Completion of NDE & SR/Heat treatment	MT	540.72

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

		4.1	Placement in Position	MT	100.00			2.6	Milestones	MT	540.72
		4.2	Alignment	MT	100.00			3	Rotating Machines		
		4.3	Welding /Bolting/Fixing	MT	100.00			3.1	Pre Assembly	MT	0.00
		4.4	Milestones	MT	100.00			3.2	Placement in Position	MT	7.72
		5	Fixing Components					3.3	Alignment	MT	35.03
		5.1	Placement in Position	MT	110.00			3.4	Welding /Bolting/Fixing	MT	35.03
		5.2	Alignment	MT	110.00			3.5	Completion of NDE & SR/Heat treatment	MT	35.03
		5.3	Welding /Bolting/Fixing	MT	110.00			3.6	Milestones	MT	35.03
		5.4	Milestones	MT	110.00						
		6	Aluminium Sheeting								
		6.1	Placement in Position	MT	114.00						
		6.2	Alignment	MT	114.00						
		6.3	Welding /Bolting/Fixing	MT	114.00						
		6.4	Milestones	MT	114.00						
		7	CS Piping								

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

		7.1	Pre Assembly	MT	534.45		
		7.2	Placement in Position	MT	534.45		
		7.3	Alignment	MT	534.45		
		7.4	Welding /Bolting/Fixing	MT	534.45		
		7.5	Completion of NDE & SR/Heat treatment	MT	534.45		
		7.6	Hangers & Supports	MT	534.45		
		7.7	Hydraulic Test or Pneumatic Test	MT	534.45		
		7.8	Milestones	MT	534.45		
		<b>8</b>	<b>SS Piping</b>				
		8.1	Pre Assembly	MT	8.00		
		8.2	Placement in Position	MT	8.00		
		8.3	Alignment	MT	8.00		
		8.4	Welding /Bolting/Fixing	MT	8.00		



**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

		8.5	Completion of NDE & SR/Heat treatment	MT	8.00																																																																																		
		8.6	Hangers & Supports	MT	8.00																																																																																		
		8.7	Hydraulic Test or Pneumatic Test	MT	8.00																																																																																		
		8.8	Milestones	MT	8.00																																																																																		
Sl. No. 2 of Part A of Chapter - XXII	<b>Part A: Instructions to the Bidders</b> 2. Bidders shall quote Total Lump-sum Price for the entire scope of work at the excel sheet provided in the E-Procurement Portal titled as “Part-C of Vol-II Price Bid”. Price mentioned elsewhere in the offer of the bidder shall be treated as Null and Void.					Sl. No. 2 of Part A of Chapter - XXII	<b>Part A: Instructions to the Bidders</b> 2. Bidders shall quote Total Lump-sum Price for the entire scope of work (Part-A Fresh work items and Part-B Balance work item of BOQ) at the excel sheet provided in the E-Procurement Portal titled as “Part-C of Vol-II Price Bid”. Price mentioned elsewhere in the offer of the bidder shall be treated as Null and Void.																																																																																
Part B of Chapter - XXII	PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in “Part C of Vol-II-Price Bid”) for Package-C are given in following table-					Part B of Chapter - XXII	PART B: % weightage for amount of individual items of Schedule of quantity w.r.t. the total price (as quoted by the bidder in “Part C of Vol-II-Price Bid”) for Package-C are given in following table-																																																																																
	<table><tr><th>SN</th><th>Description of work</th><th colspan="3">Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 &amp; Common Systems AT 2X500 MW NTPC Mauda</th></tr><tr><th></th><th></th><th>UOM</th><th>Quantity to</th><th>% Weightage</th></tr><tr><td>1</td><td>Structure</td><td></td><td></td><td></td></tr><tr><td>1.1</td><td>Pre Assembly</td><td>MT</td><td>4,917.88</td><td>0.08708470</td></tr><tr><td>1.2</td><td>Placement in Position</td><td>MT</td><td>4,944.39</td><td>0.08755420</td></tr><tr><td>1.3</td><td>Alignment</td><td>MT</td><td>6,074.41</td><td>0.10756430</td></tr><tr><td>1.4</td><td>Welding /Bolting/Fixing</td><td>MT</td><td>6,131.40</td><td>0.10857350</td></tr></table>						SN	Description of work	Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems AT 2X500 MW NTPC Mauda					UOM	Quantity to	% Weightage	1	Structure				1.1	Pre Assembly	MT	4,917.88	0.08708470	1.2	Placement in Position	MT	4,944.39	0.08755420	1.3	Alignment	MT	6,074.41	0.10756430	1.4	Welding /Bolting/Fixing	MT	6,131.40	0.10857350	<table><tr><th colspan="7">BILL OF QUANTITIES AND % WEIGHTAGE OF INDIVIDUAL ITEMS</th></tr><tr><td colspan="7">Estimated value (EV) for Balance work of Handling of materials at BHEL / Client's Stores / Storage Yard and transportation to site Erection, Testing, Assistance for commissioning &amp; Trial Operation including supply &amp; application of final painting and Handing Over of Flue Gas Desulphurization System (FGD) Erection and Commissioning of Unit 1, Unit 2 &amp; Common Systems AT 2X500 MW NTPC Mauda, Stage- I, Maharashtra</td></tr><tr><td colspan="7">Estimate: Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 &amp; Common Systems AT 2X500 MW NTPC Mauda</td></tr><tr><th colspan="7">PART- A - FRESH WORK TEMS</th></tr><tr><th rowspan="2">SN</th><th rowspan="2">Description of work</th><th rowspan="2">UOM</th><th>Fresh erection weight</th><th>Unit Rate</th><th>Amount= Qty* Unit Rate</th><th>Weightage</th></tr><tr><th>in MT</th><th>Rs.</th><th>Rs.</th><th>in %</th></tr></table>							BILL OF QUANTITIES AND % WEIGHTAGE OF INDIVIDUAL ITEMS							Estimated value (EV) for Balance work of Handling of materials at BHEL / Client's Stores / Storage Yard and transportation to site Erection, Testing, Assistance for commissioning & Trial Operation including supply & application of final painting and Handing Over of Flue Gas Desulphurization System (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems AT 2X500 MW NTPC Mauda, Stage- I, Maharashtra							Estimate: Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems AT 2X500 MW NTPC Mauda							PART- A - FRESH WORK TEMS							SN	Description of work	UOM	Fresh erection weight	Unit Rate	Amount= Qty* Unit Rate	Weightage	in MT	Rs.	Rs.	in %
	SN	Description of work	Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems AT 2X500 MW NTPC Mauda																																																																																				
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			in MT	Rs.	Rs.	in %																																																																																	

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

	1.5	Completion of NDE & SR/Heat treatment	MT	6,147.66	0.02721540
	1.6	Milestones	MT	4,944.39	0.06566560
	2	Non Pressure Parts Including Tanks			
	2.1	Pre Assembly	MT	3,435.16	0.06067200
	2.2	Placement in Position	MT	3,482.93	0.06151570
	2.3	Alignment	MT	3,801.97	0.06715060
	2.4	Welding /Bolting/Fixing	MT	3,882.55	0.06857380
	2.5	Completion of NDE & SR/Heat treatment	MT	3,975.88	0.01755560
	2.6	Milestones	MT	3,485.13	0.04616590
	3	Rotating Machines			
	3.1	Pre Assembly	MT	894.95	0.01166810
	3.2	Placement in Position	MT	902.67	0.01176870
	3.3	Alignment	MT	929.98	0.01212480
	3.4	Welding /Bolting/Fixing	MT	929.98	0.01212480
	3.5	Completion of NDE & SR/Heat treatment	MT	929.98	0.00303120
	3.6	Milestones	MT	902.67	0.00882660
	4	Mineral Wool			
	4.1	Placement in Position	MT	100.00	0.00421180
	4.2	Alignment	MT	100.00	0.00168470

	1	Structure	MT	4044.400	₹ -	₹ -	0.385881242
	2	Non Pressure Parts including Tanks	MT	3482.500	₹ -	₹ -	0.331411184
	3	Rotating Machines	MT	546.050	₹ -	₹ -	0.038359134
	4	Insulation- Mineral wool	MT	100.000	₹ -	₹ -	0.009077391
	5	Insulation- Fixing components	MT	110.000	₹ -	₹ -	0.012929829
	6	Insulation- Aluminium Cladding Sheets	MT	114.000	₹ -	₹ -	0.014460531
	7	CS piping + GI piping	MT	534.450	₹ -	₹ -	0.106598219
	8	SS Piping	MT	8.000	₹ -	₹ -	0.002589844
	SUB-TOTAL			8939.4			
	PART- B - BALANCE WORK ITEMS						
	SN	Description of work		Balance Mechanical works of (FGD) Erection and Commissioning of Unit 1, Unit 2 & Common Systems AT 2X500 MW NTPC Mauda			
			UOM	Balance quantity to execute- BOQ in MT	Unit rate (Rs.)	Total Amount (Rs.)	Weightage
	1	Structure					

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

	4.3	Welding /Bolting/Fixing	MT	100.00	0.00126350		1.1	Pre Assembly	MT	0.00	₹ -	₹ -	0
	4.4	Milestones	MT	100.00	0.00126350		1.2	Placement in Position	MT	26.51	₹ -	₹ -	0.00050587
	<b>5</b>	<b>Fixing Components</b>					1.3	Alignment	MT	1,156.53	₹ -	₹ -	0.022069194
	5.1	Placement in Position	MT	110.00	0.00599930		1.4	Welding /Bolting/Fixing	MT	1,213.52	₹ -	₹ -	0.023156691
	5.2	Alignment	MT	110.00	0.00239970		1.5	Completion of NDE & SR/Heat treatment	MT	1,229.78	₹ -	₹ -	0.005866742
	5.3	Welding /Bolting/Fixing	MT	110.00	0.00179980		1.6	Milestones	MT	1,229.78	₹ -	₹ -	0.017600226
	5.4	Milestones	MT	110.00	0.00179980		2	Non Pressure Parts Including Tanks					
	<b>6</b>	<b>Aluminium Sheeting</b>					2.1	Pre Assembly	MT	0.00	₹ -	₹ -	0
	6.1	Placement in Position	MT	114.00	0.00670950		2.2	Placement in Position	MT	47.77	₹ -	₹ -	0.000909206
	6.2	Alignment	MT	114.00	0.00268380		2.3	Alignment	MT	366.81	₹ -	₹ -	0.003490745
	6.3	Welding /Bolting/Fixing	MT	114.00	0.00201280		2.4	Welding /Bolting/Fixing	MT	447.39	₹ -	₹ -	0.010643959
	6.4	Milestones	MT	114.00	0.00201280		2.5	Completion of NDE & SR/Heat treatment	MT	540.72	₹ -	₹ -	0.005145758
	<b>7</b>	<b>CS Piping</b>					2.6	Milestones	MT	540.72	₹ -	₹ -	0.007718636
	7.1	Pre Assembly	MT	534.45	0.01483800		3	Rotating Machines					
	7.2	Placement in Position	MT	534.45	0.01978400								
	7.3	Alignment	MT	534.45	0.01483800								
	7.4	Welding /Bolting/Fixing	MT	534.45	0.01978400								
	7.5	Completion of NDE & SR/Heat treatment	MT	534.45	0.00494600								
	7.6	Hangers & Supports	MT	534.45	0.00494600								

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

	7.7	Hydraulic Test or Pneumatic Test	MT	534.45	0.00494600
	7.8	Milestones	MT	534.45	0.01483800
	8	SS Piping			
	8.1	Pre Assembly	MT	8.00	0.00036050
	8.2	Placement in Position	MT	8.00	0.00048070
	8.3	Alignment	MT	8.00	0.00036050
	8.4	Welding /Bolting/Fixing	MT	8.00	0.00048070
	8.5	Completion of NDE & SR/Heat treatment	MT	8.00	0.00012020
	8.6	Hangers & Supports	MT	8.00	0.00012020
	8.7	Hydraulic Test or Pneumatic Test	MT	8.00	0.00012020
	8.8	Milestones	MT	8.00	0.00036050

3.1	Pre Assembly	MT	0.00	₹ -	₹ -	0
3.2	Placement in Position	MT	7.72	₹ -	₹ -	0.000108464
3.3	Alignment	MT	35.03	₹ -	₹ -	0.00049216
3.4	Welding /Bolting/Fixing	MT	35.03	₹ -	₹ -	0.00049216
3.5	Completion of NDE & SR/Heat treatment	MT	35.03	₹ -	₹ -	0.00012304
3.6	Milestones	MT	35.03	₹ -	₹ -	0.00036912
SUB-TOTAL						

PGMA WISE LIST FOR PART-A FRESH ITEM WORKS

PGMA	Description	Design Weight	Balance Weight	Area	System
FW217	ABS ME SUPPORT	10000	3959.443	Structure	Unit1
FW218	ABS SPRAY PIPE SUPP	10000	0	Structure	Unit1
FW219	ABSORBER SYSTEM-BASE	15000	0	Structure	Unit1
FW220	ABSORBER SYSTEM-STRUCTURES	237000	100000	Structure	Unit1
FW231	ABSORBER SHEAR PLATE	10000	5620	Structure	Unit1
FW232	DUCT SUP BYP & BUF/GGH	18000	12150.041	Structure	Unit1

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

			FW233	DUCT SUPPORT BUF/GGH & ABS	122000	0	Structure	Unit1	
			FW236	STRUCTURES FOR RC PUMP HOUSE	120000	46037.696	Structure	Unit1	
			FW237	GALLERIES & RAILING FOR STAIR	80000	76273.524	Structure	Unit1	
			FW260	DUCT STR BYP & BUF/GGH/ABS	140000	42091.375	Structure	Unit1	
			FW261	DUCT STR BUF/GGH & ABS	656000	109000	Structure	Unit1	
			FW262	DUCT STR ABS & BYP/STACK	341500	158000	Structure	Unit1	
			55082	BOOSTER FAN HANDRAILS & INSERT	1577.22	1577.22	Structure	Unit1	
			55089	BOOSTER FAN CANOPY FOR MOTOR	1322.974	1322.974	Structure	Unit1	
			57209	MTG BKT FOR CL DAMPER AIR CYL	819	819	Structure	Unit1	
			57566	PLATFORMS AND LADDERS-FGD GD	16500	16500	Structure	Unit1	
			FW234	DUCT SUP ABS & STACK/BYP	52000	52000	Structure	Unit1	
			FW244	OXIDATION AIR DISTRIBUTION SYS	11000	11000	Structure	Unit1	
			FW249	HANDLING EQUIP- RC PUMP	5000	5000	Structure	Unit1	
			FW250	FLOOR GRILLS -UNIT SYS	10000	10000	Structure	Unit1	

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

			FW280	FOUNDATION MATL FOR DUCT STRUC	20340.6	20340.6	Structure	Unit1	
			FW281	FOUNDATION MATL FOR ABS	4739.462	4739.462	Structure	Unit1	
			FW282	FOUNDATION MATL FOR ELEVATOR	10000	10000	Structure	Unit1	
			FW283	FOUNDATION MATL RC PUMP SHED	20000	20000	Structure	Unit1	
			FW285	SUPRTING STR FOR EMERGENCY QWT	7000	7000	Structure	Unit1	
			FW292	STRUCTURES FOR ELEVATOR	90000	90000	Structure	Unit1	
			FW310	STRU FOR BOOSTER FAN HANDLING	110000	5000	Structure	Unit1	
			FW610	GALLARIES & RAIL FOR GGH	40000	40000	Structure	Unit1	
			FW612	GALLARIES AND RAILINGS FOR DAM	35000	35000	Structure	Unit1	
			FW613	GALLARIES AND RAILINGS FOR DUC	35000	35000	Structure	Unit1	
			57141	SEAL AIR HAG AND ID FAN OUTGAT	14250	0	NPP	Unit1	
			57540	GATE-FGD BOOSTER FAN INLET	41772.754	0	NPP	Unit1	
			57497	KNIFE GATE VALVE	1460	0	NPP	Unit1	
			57550	GATE-FGD BOOSTER FAN OUTLET	45203.6	0	NPP	Unit1	

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

			FW216	ABS BAFFLE GRATING SUPP	8000	796.341	NPP	Unit1	
			FW221	ABSORBER SYSTEM- CASING BOTTOM	167000	30000	NPP	Unit1	
			57577	ELECT ACTUATOR FOR GATE,DAMPER	12000	12000	NPP	Unit1	
			FW222	ABSORBER SYSTEM- CASING TOP	250000	203887	NPP	Unit1	
			57583	DAMPER FGD BYPASS	29992.366	29992.366	NPP	Unit1	
			FW213	ABSORBER SYSTEM INTERNALS	23000	23000	NPP	Unit1	
			FW214	ABS BAFFLE GRATING	10000	10000	NPP	Unit1	
			FW215	MIST ELIMINATOR & ACCESSORIES	41000	41000	NPP	Unit1	
			FW223	ABSORBER SYSTEM ACCESSORIES	15000	15000	NPP	Unit1	
			FW227	EMERGENCY QUENCH SYSTEM	9000	9000	NPP	Unit1	
			FW228	ABSORBER-W/D INTERFACE	13000	0	NPP	Unit1	
			FW229	W/D WASH SYSTEM	5000	5000	NPP	Unit1	
			FW238	HOOK UP DUCT WITH STRUCTURE	35150.104	35150.104	NPP	Unit1	
			FW239	VIEWING PORTS	5000	5000	NPP	Unit1	
			FW251	EXPNSN JNT METALLIC	43000	11503.244	NPP	Unit1	
			FW253	EXPANSION JOINT BETWEEN SCRUBR	11500	11500	NPP	Unit1	

**Corrigendum - 5 dated 12/02/2025 to CPC Tender No. BHEL/CPC/MDA/FGD/BAL MEC/25/066**

			FW255	DUCT BYP & BUF/GGH/ABS	115000	0	NPP	Unit1	
			FW256	DUCT BUF/GGH & ABS	806000	608000	NPP	Unit1	
			FW257	DUCT ABS & BYP/STACK	343000	343000	NPP	Unit1	
			55084	AXIAL BOOSTER COOLING/SEAL FAN	3000	3000	Rotary	Unit1	
			55287	AXIAL BOOSTER FAN ROTOR	15898.821	2130.848	Rotary	Unit1	
			55587	AXIAL BOOSTER FAN STATOR	71538.001	958	Rotary	Unit1	
			55880	AXIAL BOOSTER FAN COUPLING	2000	2000	Rotary	Unit1	
			55980	BOOSTER FAN LOS WITH LUBRICANT	3000	3000	Rotary	Unit1	
			55983	BOOSTER FAN ACTUATOR	100	100	Rotary	Unit1	
			57491	BLOWER WITH MOTOR	2880	2880	Rotary	Unit1	
			FW212	SLURRY RECIRCULATION PUMP SYST	128000	0	Rotary	Unit1	
			FW230	OXIDATION BLOWER & ACC	23000	23000	Rotary	Unit1	
			FW243	SLURRY DIST RC PUMP & ABS	50000	0	Rotary	Unit1	
			HT Motors	HT Motors	33000	33000	Rotary	Unit1	
			FW226	EMERGENCY QUENCH WATER TANK	20000	0	Tanks	Unit1	



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			55082	BOOSTER FAN HANDRAILS & INSERT	1577.22	1450.82	Structure	Unit2	
			55089	BOOSTER FAN CANOPY FOR MOTOR	1322.974	1322.974	Structure	Unit2	
			FW219	ABSORBER SYSTEM- BASE	15000	0	Structure	Unit2	
			57209	MTG BKT FOR CL DAMPER AIR CYL	819	819	Structure	Unit2	
			FW220	ABSORBER SYSTEM- STRUCTURES	237000	100000	Structure	Unit2	
			57566	PLATFORMS AND LADDERS-FGD GD	16500	16500	Structure	Unit2	
			FW231	ABSORBER SHEAR PLATE	10000	9134.912	Structure	Unit2	
			FW217	ABS ME SUPPORT	10000	10000	Structure	Unit2	
			FW233	DUCT SUPPORT BUF/GGH & ABS	122000	19194.011	Structure	Unit2	
			FW218	ABS SPRAY PIPE SUPP	10000	10000	Structure	Unit2	
			FW236	STRUCTURES FOR RC PUMP HOUSE	120000	37665.112	Structure	Unit2	
			FW237	GALLERIES & RAILING FOR STAIR	80000	75707.344	Structure	Unit2	
			FW260	DUCT STR BYP & BUF/GGH/ABS	140000	102448.868 5	Structure	Unit2	
			FW232	DUCT SUP BYP & BUF/GGH	18000	18000	Structure	Unit2	
			FW234	DUCT SUP ABS & STACK/BYP	52000	52000	Structure	Unit2	

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			FW244	OXIDATION AIR DISTRIBUTION SYS	11000	11000	Structure	Unit2	
			FW249	HANDLING EQUIP- RC PUMP	5000	5000	Structure	Unit2	
			FW250	FLOOR GRILLS -UNIT SYS	10000	10000	Structure	Unit2	
			FW261	DUCT STR BUF/GGH & ABS	656000	200000	Structure	Unit2	
			FW262	DUCT STR ABS & BYP/STACK	341500	150000	Structure	Unit2	
			FW280	FOUNDATION MATL FOR DUCT STRUC	20340.6	0	Structure	Unit2	
			FW281	FOUNDATION MATL FOR ABS	4739.462	0	Structure	Unit2	
			FW282	FOUNDATION MATL FOR ELEVATOR	10000	0	Structure	Unit2	
			FW283	FOUNDATION MATL RC PUMP SHED	20000	0	Structure	Unit2	
			FW285	SUPRTING STR FOR EMERGENCY QWT	7000	7000	Structure	Unit2	
			FW292	STRUCTURES FOR ELEVATOR	90000	60000	Structure	Unit2	
			FW310	STRU FOR BOOSTER FAN HANDLING	110000	10000	Structure	Unit2	
			FW610	GALLARIES & RAIL FOR GGH	40000	40000	Structure	Unit2	
			FW612	GALLARIES AND RAILINGS FOR DAM	35000	35000	Structure	Unit2	

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			FW613	GALLARIES AND RAILINGS FOR DUC	35000	35000	Structure	Unit2	
			57141	SEAL AIR HAG AND ID FAN OUTGAT	14250	0	NPP	Unit2	
			57497	KNIFE GATE VALVE	1460	0	NPP	Unit2	
			57540	GATE-FGD BOOSTER FAN INLET	41772.754	0	NPP	Unit2	
			57550	GATE-FGD BOOSTER FAN OUTLET	45203.6	0	NPP	Unit2	
			57577	ELECT ACTUATOR FOR GATE,DAMPER	12000	0	NPP	Unit2	
			57583	DAMPER FGD BYPASS	29992.366	0	NPP	Unit2	
			FW213	ABSORBER SYSTEM INTERNALS	23000	23000	NPP	Unit2	
			FW214	ABS BAFFLE GRATING	10000	10000	NPP	Unit2	
			FW215	MIST ELIMINATOR & ACCESSORIES	41000	41000	NPP	Unit2	
			FW216	ABS BAFFLE GRATING SUPP	8000	8000	NPP	Unit2	
			FW221	ABSORBER SYSTEM-CASING BOTTOM	167000	30000	NPP	Unit2	
			FW222	ABSORBER SYSTEM-CASING TOP	250000	192701.165	NPP	Unit2	
			FW223	ABSORBER SYSTEM ACCESSORIES	15000	15000	NPP	Unit2	
			FW227	EMERGENCY QUENCH SYSTEM	9000	9000	NPP	Unit2	

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			FW228	ABSORBER-W/D INTERFACE	13000	13000	NPP	Unit2	
			FW229	W/D WASH SYSTEM	5000	5000	NPP	Unit2	
			FW238	HOOK UP DUCT WITH STRUCTURE	35150.104	35150.104	NPP	Unit2	
			FW239	VIEWING PORTS	5000	5000	NPP	Unit2	
			FW251	EXPNSN JNT METALLIC	43000	19369.392	NPP	Unit2	
			FW253	EXPANSION JOINT BETWEEN SCRUBR	11500	11500	NPP	Unit2	
			FW255	DUCT BYP & BUF/GGH/ABS	115000	115000	NPP	Unit2	
			FW256	DUCT BUF/GGH & ABS	806000	300000	NPP	Unit2	
			FW257	DUCT ABS & BYP/STACK	343000	343000	NPP	Unit2	
			55084	AXIAL BOOSTER COOLING/SEAL FAN	3000	3000	Rotary	Unit2	
			55287	AXIAL BOOSTER FAN ROTOR	15898.821	0	Rotary	Unit2	
			55587	AXIAL BOOSTER FAN STATOR	71538.001	61000	Rotary	Unit2	
			55880	AXIAL BOOSTER FAN COUPLING	2000	2000	Rotary	Unit2	
			55980	BOOSTER FAN LOS WITH LUBRICANT	3000	3000	Rotary	Unit2	
			55983	BOOSTER FAN ACTUATOR	100	100	Rotary	Unit2	
			57491	BLOWER WITH MOTOR	2880	2880	Rotary	Unit2	

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			FW212	SLURRY RECIRCULATION PUMP SYST	128000	0	Rotary	Unit2	
			FW230	OXIDATION BLOWER & ACC	23000	23000	Rotary	Unit2	
			FW243	SLURRY DIST RC PUMP & ABS	50000	0	Rotary	Unit2	
			HT Motors	HT Motors	33000	33000	Rotary	Unit2	
			FW226	EMERGENCY QUENCH WATER TANK	20000	20000	Tanks	Unit2	
			FW710	MONORAIL FOR HOIST & CRANES	60000	60000	Structure	Common	
			FW712	FLOOR GRILLS-COMM SYS	5000	5000	Structure	Common	
			FW713	CHAIN PULLEYS	75000	75000	Structure	Common	
			FW714	HOISTS	75000	75000	Structure	Common	
			FW717	MAN HOLE DOOR	5000	5000	Structure	Common	
			FW721	AGITATOR SUPPORT	187000	187000	Structure	Common	
			FW722	GALLERIES & RAILINGS FOR TANK	90000	90000	Structure	Common	
			FW730	LIMESTONE SILO STRUCTURE	120000	120000	Structure	Common	
			FW733	LIMESTONE SILO APPROACH PLATF	63000	63000	Structure	Common	
			FW740	FOUNDATION MATL FOR TANKS	3724.112	3724.112	Structure	Common	

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			FW749	ALL TANKS INTERNAL STRUCTURE	7000	7000	Structure	Common
			FW760	FOUNDATION MATL FOR PIPE RACKS	25000	25000	Structure	Common
			FW761	STRUCTURE FOR PIPERACKS	106500	50000	Structure	Common
			FW762	FNDN MATL FOR SILO STRUCTURE	71000	71000	Structure	Common
			FW763	FNDN MATL SUB PIPE RACK	25000	25000	Structure	Common
			FW765	STR FOR SUB PIPE RACK	106500	50000	Structure	Common
			FW766	PLATFORM FOR PIPE RACK	30000	30000	Structure	Common
			FW767	PLATFORM SUB PIPE RACK	30000	30000	Structure	Common
			FW768	TRESTLE FOR MAIN PIPE RACK	143500	70000	Structure	Common
			FW769	TRESTLE-SUB PIPE RACK	143500	70000	Structure	Common
			FW784	HSFG BOLTS	10000	10000	Structure	Common
			FW787	STRUCTURES INSIDE GDWB & BMB	30000	30000	Structure	Common
			FW814	ROOFING SHEET	7000	7000	Structure	Common
			PSWR	PSWR Structure	4850000	950000	Structure	Common
			FW723	AIR CANNON-SILO	4000	4000	NPP	Common
			FW753	SLURRY PIPE ACCESSORIES	400000	400000	NPP	Common

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			FW701	SLURRY PUMPS & ACCESSORIES	50000	50000	Rotary	Common	
			FW705	WATER PUMP & ACCESSORIES	40000	40000	Rotary	Common	
			FW720	AGITATORS	60000	60000	Rotary	Common	
			FW724	BAGFILTER & FAN ASSY SILO	4000	4000	Rotary	Common	
			FW734	LIMESTONE MILL	330000	124000	Rotary	Common	
			FW738	GYPSUM BELT FILTER AND ACCESS	70000	70000	Rotary	Common	
			FW731	LIMESTONE SILO	146000	39219.12	Tanks	Common	
			FW742	LIMESTONE SLURRY STORAGE TANK	107000	4205.17	Tanks	Common	
			FW743	AUXILIARY ABSORBER TANK	84000	10000	Tanks	Common	
			FW744	FILTRATE TANK	128000	10000	Tanks	Common	
			FW745	WASTE WATER TANK	47000	10000	Tanks	Common	
			FW747	HYDROCLONE WASTE WATER TANK	62000	10000	Tanks	Common	
			FW748	PROCESS WATER TANK	20000	455.99	Tanks	Common	
			FW785	BELT FILTER WASHING TANK	16000	0	Tanks	Common	
			FW786	PRIMARY HYDROCYCLONE FEED TANK	17000	5071.325	Tanks	Common	
			FW798	AIR RECEIVERS	10000	0	Tanks	Common	

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			FW800	CLARIFIED WATER TANK	11000	0	Tanks	Common
			PSWR	PSWR supplied Bulk Silo	400000	400000	Tanks	Common
			FW750	TANK ACCESSORIES	8000	8000	CS+GI Piping	Common
			FW751	PROCESS WATER PIPE ACCESSORIES	18000	18000	CS+GI Piping	Common
			FW752	COOLING WATER PIPE ACCESSORIES	18000	18000	CS+GI Piping	Common
			FW754	SERVICE AIR PIPE ACCESSORIES	210000	210000	CS+GI Piping	Common
			FW755	INSTRUMENT AIR PIPE ACCESSORIE	40000	40000	CS+GI Piping	Common
			FW802	NEUTRALISATION TANK & ACCESSOR	4000	4000	CS+GI Piping	Common
			FW815	RC PUMP INLT & OUTLT VALVE	63700	63700	CS+GI Piping	Common
			FW816	MANL BTRFLY VALV-UTLTY	1820	1820	CS+GI Piping	Common
			FW817	MOTOR BTRFL VALV-UTLTY	390	390	CS+GI Piping	Common
			FW818	PNEM BTRFLY VALV-UTLTY	1040	1040	CS+GI Piping	Common
			FW819	MAN BTRFLY VALV-LS SLRY	2730	2730	CS+GI Piping	Common
			FW820	MOTOR BTRFLY VALV-LS SLRY	780	780	CS+GI Piping	Common
			FW821	PNEUM BTRFLY VALV-LS SLRY	5720	5720	CS+GI Piping	Common



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			FW822	MAN BTRFLY VALV-GYP SLRY	4810	4810	CS+GI Piping	Common
			FW823	MOTOR BTRFLY VALV - GYP SLRY	20150	20150	CS+GI Piping	Common
			FW828	MAN GATE VALV-UTLTY	12610	12610	CS+GI Piping	Common
			FW829	MOTOR GATE VALV- UTLTY	910	910	CS+GI Piping	Common
			FW834	MAIN GLOBE VALV- UTLTY	6500	6500	CS+GI Piping	Common
			FW840	CERAMIV VALVES	260	260	CS+GI Piping	Common
			FW841	CONTROL VALVES	910	910	CS+GI Piping	Common
			FW842	MAN PINCH VALV-GYP SLRY	520	520	CS+GI Piping	Common
			FW845	BALL VALVES- WATER	390	390	CS+GI Piping	Common
			FW848	CHECK VALVES- WATER	1040	1040	CS+GI Piping	Common
			FW851	DIAPHRAGM VALV- SLURRY	1170	1170	CS+GI Piping	Common
			FWPS	Fire Water Protection System	111000	111000	CS+GI Piping	Common
			SS	SSPiping	8000	8000	SS Piping	Common
			FW267	INSULATION MATERIALS FOR DUCT	100000	100000	Mineral Wool	Insulation
			FW268	FIXING COMP FOR DUCT	110000	110000	Iron Parts	Insulation
			FW269	CLADDING SHEET FOR DUCT	114000	114000	Aluminium Sheets	Insulation

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					18394263.92	8939398.66		
Note: The above list is tentative. Decision of BHEL in deciding any PGMA/work required for completion of entire scope of this scope of work, qualified as fresh or balance work shall be final and binding on contractor.								

**D) Some of the Bidders had asked queries in the published tender specification. The clarifications issued by BHEL are as below;**

Sl. No.	Reference clause of tender document	Existing Provision	Bidder's Query	BHEL's Clarification
1	Clause no. 4.1 of TCC	Tube Expander – As required	What is the need of tube Expander for the referred work.	Refer revised Clause 4.1 of Chapter – IV of TCC mentioned at Sl. No. C) above.
2		Plate rolling / Bending Machine – As required	Please clarify, is the fabrication work of Tanks in the scope of contractor, if yes then what is the weight.	Refer revised Clause 4.1 of Chapter – IV of TCC mentioned at Sl. No. C) above.
3		Tyre mounted / mobile crane (Telescopic boom, Hydraulically operated with turret function)	Please clarify whether the requirement of Crane is 75MT/80 OR 120 MT and also clarify the quantity for the same	Crane requirement has been kept flexible from 75MT to 120 MT based on working radius at site. Minimum QTY-2 Nos. Refer revised Clause 4.1 of Chapter – IV of TCC mentioned at Sl. No. C) above.
4	Clause No. 2.1.25 of TCC	Fire Protection system	Please mention the length, Dia of Pipe to be buried. This is required for estimating the cost of Wrapping and protecting the coating of buried pipe.	Underground Piping is approx. 100 m length and 8 inches diameter.
5			Please clarify, in which section, the Weight of Fire Protection System included and what is the Weight of it.	Fire Protection System is approx. 12 MT.
6	Chapter 9 of TCC	Estimated Weight for Various Systems in Scope of Work (BOQ)	We request BHEL to provide PGMA Wise details of BOQ for better understanding of Scope of Work.	Refer revised Part B of Chapter – XXII of TCC mentioned at Sl. No. C) above for PGMA wise list for Part-A of BOQ.
7			Please clarify whether the Weight of Absorber is included in Structure or Non-Pressure Part.	Absorber weight is included in Non-Pressure Parts.

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<b>Sl. No.</b>	<b>Reference clause of tender document</b>	<b>Existing Provision</b>	<b>Bidder's Query</b>	<b>BHEL's Clarification</b>
<b>8</b>			01) Kindly provide the BOQ of Complete Works of FGD. 02) Kindly Provide the Details of payments to be paid the contractors for the works and milestone. 03) 1n the given BOQ the total quantities are Approx. 10980 MT. and the payment against milestone we get only for 10980 MT but during the Commissioning we have to carry out extra work for 'alignment, welding/bolting/fixing & completion of NDE & SR/Heat treatment' for the already erected structure. The payments for these items (which are already erected) should be separate items in BOQ.	Refer revised Part B of Chapter – XXII of TCC mentioned at Sl. No. C) above
<b>9</b>	Clause 2.14.1 of GCC	Variation in Final Executed Contract Value	01) Since the contract is for left out job, there should not be any deviation in minus side for the quantities as mobilization of resources shall be done for BOQ quantities. 02) The limit for the variation of contract value should be within the limits of minus (-5%) of awarded contract value.	Tender conditions shall prevail.

**Note:**

- 1) All other terms and conditions against this NIT shall remain unchanged.**
- 2) This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).**

**for BHARAT HEAVY ELECTRICALS LTD  
Sr. Manager/ SCT**