

Schedule of quantity & unprice bid formate							
Name of works: "E& C of Boiler & It's auxiliaries", Stack and BOP systems along with Material Handling for 265 TPH Steam Generation Package at Bina Petchem and Refinery Expansion Project (BPREP), Bina, Madhya Pradesh							
Tender ref no. TOAZX00015, Dated:20.05.2026							
SL NO	S SL NO	Description of Equipments/Parts	UOM	Weight	Unit Rate	Total Amount in Rs	Weightage
SECTION-A		Erection, Testing, Commissioning, Trial Operation & Handing Over of Boiler and auxiliaries & associate integral piping, pumps/Fans Ducts, Chimney & Auxiliaries etc. BOP systems, fixing of hangers & supports, NDT,application of lining, Insulation, supply & painting, Stencilling & Labelling etc., Handling of materials at BHEL / Client's Stores / Storage Yard /Erection site					
	1	Structure	MT	1240.81			15.5121%
	2	PRESSURE PARTS(Including Integral Piping)	MT	567.732			8.5794%
	3	NON PRESSURE PART	MT	706.81401			8.9495%
	4	Rotating Machines	MT	117.30			1.0228%
	5	INSULATION	MT				
	5.1	Insulation-Wool Matress	MT	109.875			1.2771%
	5.2	Insulation-Bricks,Pourable and castable	MT	72.675			0.8546%
	5.3	Insulation-Iron Parts	MT	43.135			0.5243%
	5.4	Insulation-Aluminium Cladding sheets	MT	31.495			0.3991%
	6	Piping Systems	MT				
	6.1	Power cycle Piping AS (P91)	MT	64.31			2.6815%
	6.2	HP Piping including P11,P12,P22,CS	MT	262.24			8.5786%
	6.3	SS Piping	MT	24.97			1.4981%
	6.4	MISC PIPING ITEMS	MT	68.2			2.2310%
	6.5	HANGERS & SUPPORTS	MT	110			1.9254%
	6.6	Tanks	MT	4.5			0.0788%
	6.7	Pumps	MT	52.2			0.9137%
	6.8	ACCESS PLATFORMS(Fabrication& Erection inclusive of Final Finshed painting))	MT	80			2.2242%
	7						
	7.1	FPS- Piping(Above Ground)-Fabrication& Erection inclusive of Final Finshed painting)	MT	77.20			2.7455%
	8	Chimney	MT				
	8.1	Chimney/ Stack Fabrication, welding, radiography, PWHT at Fabrication Yard : This includes Fabrication, welding, radiography, touch up painting (Approx 100.3Mtr Height) as per TCC Note: 1. Fabrication, welding, painting shall be carried out in horizontal position at site as per details given in TCC. 2. Erection shall be carried out as per details given in TCC.	MT	450.00			5.6978%
	8.2	Chimney/Stack Fabrication, welding, radiography, PWHT at site: Erection,Testing and commissioning of stack including Fabrication, welding, radiography, touch up painting (Approx 100.3Mtr Height) as per TCC Note: 1. Erection shall be carried out at site as per details given in TCC. 2. Necessary T&P is in the scope of Vendor as per TCC	MT	800			12.8991%
	9	9.1 Commissioning Consumables	LS				0.9153%
SECTION-B							
Sl No	ST NO	Structural steel works including all labour, material, equipments, transportation, handling etc. at any level as per specification, drawings and as directed by engineer -					

1	2301	Supply, fabrication and erection of structural steel Grade E350 Quality BR/B0 with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, MS grating etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails etc including 2 coats of redoxide zinc-chromate primer (one coat at shop and one coat after erection), connection design & preparation of fabrication drgs, collection of steel from stores, fabrication, straightening, cutting, bending, rolling, grinding, machining, drilling, welding, electrodes and other consumables, alignment, erection bolts & nuts (weight of erection bolts, nuts and welds not payable), assembly, edge preparation, preheating (min preheat and interpass temperature of 20° C for welding over 20 mm and upto 40 mm & 66° C for welding over 40 mm and upto 63 mm & 110° C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, testing of welders, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, erection scheme, protection against damage in transit, stability of structures, installation of temporary structures, setting column bases, surface preparation by means of manual or mechanical power tools as per IS:1477 part 1, touch-up painting, rectification, dismantling and removal of all temporary structures (weight of temporary structures not payable), return of surplus / waste steel materials to store etc all complete. Including appointment of a separate agency, approved by BHEL, for review and approval of fabrication drgs, in consultation with BHEL. as per Specification B957-000-06-42-PLS-01	MT	43			3.2223%
2	2302	Extra over ST NO. 2301 for blast cleaning of steel structures to near white metal surface (Sa 2 1/2) and applying self curing inorganic zinc silicate primer in coats of minimum 65 micron (DFT) and one coat of epoxy zinc phosphate of 40 micron primer instead of primer coat of redoxide zinc chromate, including touch-up painting etc all complete, as per Specification B957-000-06-42-PLS-01	MT	43			0.2140%
3	2303	Extra over ST NO. 2301 for providing and application of one coat of intermediate consisting of epoxy high built coating of 100 micron above the primer including touch up painting etc. all complete and as per Specification B957-000-06-42-PLS-01	MT	43			0.1218%
4	2305	Providing and applying acrylic polyurethane finish paint with minimum 40 micron dry film thickness (DFT) of approved make (coat shall be applied after an interval of minimum overnight from the application of intermediate coat) to achieve total minimum DFT of 245 Micron.as per Specification B957-000-06-42-PLS-01	MT	773			1.1681%
5	2307	Supplying, fabrication, erection and alignment of factory made electroforged galvanised grating units with structural steel Grade E250 Quality A/BR/B0 mild steel (having minimum galvanisation of 900 g/sqm) conforming to IS:2062 in flooring, platforms, drain and trench covers, walk-ways, passages, staircases with edge binding strips and anti-skid nosing in treads etc. including fixing clamps, fittings, fixtures, all taxes, duties, packing, grinding, drilling, welding, edge preparation, etc. all complete as per EIL specification 7-68-0697	MT	83			7.4178%
6	2311	Providing and fixing in positing of high strength structural bolts (of property class 8.8 and product grade 'C' as per IS: 1367) and conforming to IS: 3757 and high strength structural hardened and tempered nuts (of property class '8' as per IS:1367) conforming to IS:6623 with hardened and tempered washers as per IS:6649 etc. up to and inclusive of 39 mm diameter and upto 300 mm long for structural steel work etc all complete.	MT	1			0.1098%
7	2312	Dismantling of steel structure , lowering of material and carriage of the dismantled material up to field fabrication shop / projects storage including temporary dismantling, cutting, re-welding, supporting, and restoring to correct position all temporarily dismantled members, realignment of all adjacent connected members to their correct positions (weight of such adjacent members and temporarily dismantled members not payable), scaffolding, staging, tools & tackles, gas cutting, welding, consumables etc all complete.	MT	4			0.0252%
8		Addition to, alterations in and/or modification of "Erection Marks" including cutting of parts, gauging of welds, cutting, grinding, fabrication, welding, drilling holes, straightening, removal of bends, raising to the required level, painting, transportation, return of unutilised steel pieces to the project store, temporarily dismantling, cutting, re-welding, supporting and restoring to correct position of all the temporarily dismantled members, realignment of adjacent connected members (weight of such temporarily dismantled and adjacent members not payable) etc all complete for the following:					
	a	In erected position	MT	4			0.0600%
	b	In fabrication yard	MT	4			0.0512%
9	2320-A	Supply, fabrication and fixing of GI pipe hand railing (1000 mm high) of 32 mm/40 mm dia (Medium Grade) including transportation, loading/unloading, epoxy painting (140 micron) etc. all complete . As per specification 7-68-0060 and Specification B957-000-06-42-PLS-01	MT	4			0.3285%
10		"Conducting underground survey including establishment of baseline for defining the coordinates of various areas; mapping of location, elevation, properties, and size of underground pipelines/piping, existing electrical and instrumentation cables, civil and structural foundations, piles, manholes, tunnels and other utilities (metallic and non-metallic), including locating change in direction of the facility using Ground Penetration Radar (GPR); preparation of survey maps and preparation of two-dimensional (2D) / three-dimensional (3D) AutoCAD drawings for the underground services, complete in all respects as per specification and instructions of the Engineer-in-Charge."	SQ MM	800			0.0038%
SECTION C							
1	1.1	Material Handling & Management services as per TCC	MT	6350.14			7.7696%
		Total (Exclusive of GST)					100.0000%
Note-1	Bidder to confirm having quoted their price in BHEL NIC portal (https://eprocurebhel.co.in) in the manner described in Note:(2) below, by writing "QUOTED" here						
Note-2	Bidder no need to quote the price here, lumsun Price quoted by bidder in (excel sheet) price bid format in BHEL NIC portal (https://eprocurebhel.co.in) shall be considered as the total price of this tender SOQ. Rate and amount against each line item shall be derived from the corresponding weightage assigned against each line item of this SOQ.						
Note-3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be applicable						
Note-4	Details of SOQ items shall be read in conjunction with the corresponding specifications, drawings and other tender terms.						