

Ref: E Tender: BHE/PW/PUR/TLPT-PEB SHED/2702

Chapter-XI of Vol-IA TCC (BILL OF QUANTITIES AND % WEIGHTAGE OF INDIVIDUAL ITEMS

SUPPLY, FABRICATION, MANUFACTURING, TRANSPORTATION, RECEIPT AT SITE AND ERECTION OF PRE ENGINEERED AND RE-ERECTABLE TYPE 04 NO. OF CLOSED STORAGE SHED (SIZE 60MX15M), FOR 2X660 MW NTPC TALCHER TPS						
Item No.	Description	Unit	Qty.	Rate (Rs)	Amount (Rs.)	Weightage
	Structural steel works including all labour, material (unless otherwise specified in BOQ/contract specification), equipments unless otherwise specified, transportation, handling etc. at all level as per specification, drawings and as directed by engineer - in - charge.					
1	Supply of factory/shop fabricated structural steel in Rolled/built up section/combination,transportation and erection, alignment at site, Painting as per specification, bolted connection design & preparation of fabrication drgs, straightening, cutting, bending, rolling, grinding, machining, drilling, welding, electrodes and other consumables, alignment, assembly, edge preparation, preheating (min preheat and interpass temperature of 20 Deg C for welding over 20 mm and upto 40 mm & 66 Deg C for welding over 40 mm and upto 63 mm & 110 Deg C for thickness over 63 mm & use of low hydrogen/ radiogenic electrodes), post heating, inspection of welds, visual inspection, non destructive and special testing, rectification and correction of defective welding works, production test plate, inspection and testing, protection against damage in transit, stability of structures,temporary structures (weight of temporary structures not payable), etc all complete as per specification and drawing.	MT	96	0.00	0 00 000	50.605315
2	Providing, erection and fixing permanently color coated galvanised MS troughed metal 0.47mm thick roof sheet of approved colour as per relevant IS code and specification. Minimum galvanisation of 275 gsm total on both sides including fixing of sheet to purlin with self drilling screws, stich screws between two adjacent sheets and sealing with epoxy sealant. Measurement of profile sheeting shall be of the plan area of roof covered by sheet including overlap.	SQM	3800	0.00	0 00 000	19.096227
3	Supply and Fixing of external sheet of Permanent colour coated metal cladding with troughed M.S. sheets manufactured out of 0.55 mm TCT(Total coated thickness) permanently colour coated zincalume sheet (150 gsm zinc-aluminium alloy coating total of both sides as per AS 1397:1993) having 300 Mpa yield strength. The colour coating shall be comprise of SMP.The colour coating shall comprise of 20 microns finish coat over a 5-micron primer coat on the exposed side and a back coat of 5 microns over a primer coat of 5 micron on the reverse side.The metal cladding shall have 500 mm cover width,47 mm high crests at 250 mm centers with special male/female side laps and anti siphoning feature to prevent leakage. The sheet shall be fixed with the help of concealed compatible interlocking clips and wafer head zinc cotted self drilling fastner/screws 4.2X25 mm long on to the sub-girts.The clips shall be concealed and no fastner are to be penetrate the external sheeting all complete as per specification. Measurement of cladding shall be of the elevation/plan area of side covered by cladding including overlap.	SQM	4000	0.00	0 00 000	23.076640
4	Supply & fixing FRP (fibre reinforced plastic) sheets 2 mm thick including GI hooks/ J or L bolts, Screw, nuts, washers, bitumen washers etc. complete including overlap 100mm .	SQM	480	0.00	0 00 000	3.057193
5	Supply & fixing of Turbo Vent 600 mm Dia. all complete as per specification	NOS.	20	0.00	0 00 000	0.721364
6	Providing and fixing in position Mechanically operated rolling shutter of hot rolled double dipped galvanised steel lath section of 18 SWG tested mild steel strips at 75mm rolling centres interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per IS 6248 and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles. (partly coiled and lath/full lath).	SQM	96	0.00	0 00 000	1.672911
7	Providing and fixing steel windows, ventilator with steel sections as per IS:1038, IS:1361 & IS:7452 latest revision.including all fittings, metal beadings, hold fasts, shop and final painting ,glazing etc. all complete. (Rate is inclusive of glazing)	SQM	80	0.00	0 00 000	0.801889
8	Providing and fixing steel door with frame all complete with 45mm thk flush design shutter comprising of two outer sheets of 18 gauge steel sheets rigidly connected and reinforced inside with continuous vertical 20 gauge stiffeners, spot welded in position at not more than 150mm on centres including void filled with mineral wool (density as per specification), all fittings, Godrej or equivalent make mortice lock with handle on both sides, shop and final painting etc all complete.	SQM	12	0.00	0 00 000	0.306909
9	Providing and fixing UPVC rainwater take pipes of 110mm diameter- Class 3 as per IS:4985 including all complete	RM	320	0.00	0 00 000	0.66155
	Total (Rs.)				00 00 000	100.00 00 000