

**BILL OF QUANTITIES (BOQ) FOR PEB & STRUCTURAL WORKS****NAME OF THE WORK: SLUDGE STORAGE TANK STAIRCASE**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE (Rs.)		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
1.1	<b>STRUCTURAL STEEL FOR MS</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details,getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Hot-Rolled Structural Steel Members</b> made from hot rolled plates conforming to <b>E250 mpa</b> of <b>SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Hot-Rolled sections for staircase Columns & beams, Intermediate tie rods including cutting,welding, Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	6,600.00				
1.2	<b>STRUCTURAL STEEL FOR MS</b> : Providing, fabricating and erecting of <b>6.0mm thick chequered plate-E250 grade SAIL/TATA/JINDAL or equivalent mak</b> for staircase including welding, lifting, aligning in the position,etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	1,600.00				
1.3	<b>STRUCTURAL STEEL FOR MS</b> : Providing, fabricating and erecting of <b>Structural Steel Members</b> consisting of <b>Circular hollow sections-E310 grade of TATA/JINDAL or equivalent make</b> for staircase hand rails including welding, lifting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	700.00				
	Total Amount						

**NAME OF THE WORK: R.O. PLANT PEB SHED**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
1.1	<b>STRUCTURAL STEEL FOR MS</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details,getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Primary Builtup Structural Steel Members</b> made from hot rolled plates conforming to ASTM A-572 Grade 50 ( <b>345 mpa</b> ) of <b>SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Built-up sections Columns & Rafters, Intermediate tie rods including cutting,shop welding conforming to AWS standards. All Butt welds shall have full penetration and checked by DPT. Builtup sections shall be double side welded based on design requirement. Minimum thickness of weld shall be 5mm. Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	25,000.00				

1.2	<b>STRUCTURAL STEEL FOR GI</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details, getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Secondary Structural Steel Members</b> consisting of Z/C – Purlins, cleat angles, Sag Rods, Brace Rods., all galvanized, complete including welding, lifting, aligning in the position, Connections etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	10,000.00				
1.3	<b>ROOFING SHEETS &amp; SIDE CLADDING:</b> Supply and fixing of 0.50 mm colour coated galvalume corrugated sheet 550 Mpa (As per Approved Make) Screwed down system with concealed fasteners with colour coated top (white) for roofing fixed using Hardware as per manufacturers specs. consider the underdeck insulation : underdeck XLEP 13MM thick one side Aluminium foil or equivalent to standard.	Kg	8,500.00				
1.4	<b>POLYCARBONATE SHEETS (FOR ROOFING)</b> : Supply and fixing of 2 mm thick clear and transparent polycarbonate sheets of width 450mm (or as per standing seam) and full width of shed from eave to eave. One nos. in each bay for sky lighting purpose on roof and fixed using necessary flats, SD Screws , flashings, sealants, safety mesh from below and accessories, guaranteed leak proof as per the best industry standards.	Sqm	80.00				
1.5	<b>TURBO VENTILATORS:</b> Supply and fixing of 600 mm dia Turbo Ventilators with metallic base of galvalume / Aluminium panel fixed using necessary fasteneres, hardware, flashing, guaranteed leak proof as per best industry standards.	Nos	8.00				
1.6	<b>VALLEY GUTTER:</b> Bending, fabrication, supply & fixing of 2 mm thick GI Valley Gutter with Supporting GI Clamps, making holes for fixing downtakes, sealing the joints with leak proof guarantee. The gutter cross section volume and flow rate shall be designed to handle rainfall intensity of not less than 50mm per hour without overflow.	Rmt	65.00				
1.7	<b>CANOPY</b> : Providing Reverse Slope Cantilever Canopy at locations and heights as shown in the drawings include side/front fascia of equal width running level to the GL on all sides, valley gutter towards the building, all fixtures, hardware, drip trims, flashings etc for the following including primary and secondary steel, girts, purlins etc:	Sqm	30.00				
1.8	<b>P.V.C. RAINWATER DOWNTAKE:</b> <b>SWR grade 150mm dia or as per design circular pipes</b> having a wall thickness not less than 1.6mm and conforming to IS 4985, including cost of necessary P.V.C. Bends, shoes, GI clamps(min 1.5mm thk), suspenders, horintal runs with adequate slope, and all other accessories and fixing in position including cost and conveyance of all materials to site and labour charges for fixing at site etc., complete measured for finished length of pipe after fixing for all floors as per approved drawings.	Rmt	55.00				
	<b>Total Amount</b>						

**NAME OF THE WORK: SLUDGE THICKNER TANK STAIRCASE**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
1.1	<b>STRUCTURAL STEEL FOR MS</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details,getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Hot-Rolled Structural Steel Members</b> made from hot rolled plates conforming to <b>E250 mpa</b> of <b>SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Hot-Rolled sections for staircase Columns & beams, Intermediate tie rods including cutting,welding, Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	6,600.00				
1.2	<b>STRUCTURAL STEEL FOR MS</b> : Providing, fabricating and erecting of <b>6.0mm thick chequered plate-E250 grade SAIL/TATA/JINDAL or equivalent mak</b> for staircase including welding, lifting, aligning in the position,etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	1,600.00				
1.3	<b>STRUCTURAL STEEL FOR MS</b> : Providing, fabricating and erecting of <b>Structural Steel Members</b> consisting of <b>Circular hollow sections-E310 grade of TATA/JINDAL or equivalent make</b> for staircase hand rails including welding, lifting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	700.00				
	<b>Total Amount</b>						

**NAME OF THE WORK: SLUDGE STORAGE PEB SHED**

S.No	DESCRIPTION OF WORK	UNIT	QUANTITY	QUOTED RATE		AMOUNT (Rs.)	
				In Figures	In Words	In Figures	In Words
1.1	<b>STRUCTURAL STEEL FOR MS</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details,getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Primary Builtup Structural Steel Members</b> made from hot rolled plates conforming to ASTM A-572 Grade 50 ( <b>345 mpa</b> ) of <b>SAIL/TATA/JINDAL</b> or equivalent make consisting of base plates, foundation bolts, Built-up sections Columns & Rafters, Intermediate tie rods including cutting,shop welding conforming to AWS standards. All Butt welds shall have full penetration and checked by DPT. Builtup sections shall be double side welded based on design requirement. Minimum thickness of weld shall be 5mm. Erecting, aligning in the position, connections, etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications. Templates for anchor bolts shall be provided and installed under vendors scope.	Kg	4,500.00				

1.2	<b>STRUCTURAL STEEL FOR GI</b> : Designing as per Indian standards detailing, preparation of fabrication drawings including all joints details,getting the details approved by the structural consultant, Providing, fabricating and erecting of <b>Secondary Structural Steel Members</b> consisting of Z/C – Purlins, cleat angles, Sag Rods, Brace Rods., all galvanized, complete including welding, lifting, aligning in the position, Connections etc., complete as per approved drawing and design duly finished with one coat of Epoxy Primer and two coats of approved Enamel Paint as per specifications.	Kg	2,000.00				
1.3	<b>ROOFING SHEETS &amp; SIDE CLADDING:</b> Supply and fixing of 0.50 mm colour coated galvalume corrugated sheet 550 Mpa (As per Approved Make) screwed down system with concealed fasteners with colour coated top (white) for roofing fixed using Hardware as per manufacturers specs. consider the underdeck insulation : underdeck XLEP 13MM thick one side Aluminium foil or equivalent to standard.	Kg	1,000.00				
	<b>Total Amount</b>						