

**BILL OF QUANTITIES - CIVIL AND STRUCTURE WORKS**

Sl. No.	Item	Unit	Qty	Rate	Amount
<b>A</b>	<b>FOUNDATION</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, irrespective of lead and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	All kinds of soil.	Cum	11.00		
2	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 sqm	490.00		
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, irrespective of lead and lift upto 1.5 m	cum	23.00		
4	Supplying and filling in plinth with River sand under floors, including watering, ramming, consolidating and dressing complete.	cum	9.00		
5	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	litre	45.00		
6	Diluting and injecting chemical emulsion for POST CONSTRUCTIONAL anti termite treatment (excluding the cost of chemical emulsion) : Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	90.00		
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	3.00		
8	Shuttering- Centering and shuttering including strutting, propping etc. and removal of form work for Foundations, footings, bases for columns	sqm	13.00		
9	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm	42.00		
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo-Mechanically Treated bars	Kg	250.00		
11	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work using coarse aggregate as well as fine aggregate derived from natural sources, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. <b>(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).</b> All works upto plinth level	cum	12.00		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation, plinth, steps etc in: Cement mortar 1:4 (1 cement : 4 coarse sand) -Plinth Wall	Cum	10.00		
	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	sqm	24.00		
ii	Providing and laying GI channel of size 25mmx75mmx50mm,1mm thick on the floor with 75mm L 12mm thick metal anchor fastener pin type .	Kg	270.00		
<b>B</b>	<b>WALL PANNELS</b>				

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1	External : P/F sandwich panel of 4mm thick fiber reinforced cement bonded plain sheets on either side enclosing a light weight core composed of portland cement, binders and a mix of siliceous and micaceous material aggregate with tongue and groove arrangement, having overall thickness not less than 75mm having density not less than 650Kg/m <sup>3</sup> , Fire Propagation Index (I) 3.7 as per BS 476 Part-6 - 1981, confirming weather resistivity, fire resistivity as per relevant IS Codes/ equivalent BS codes as per drawing.	SqM	125.00		
	Make:Everest/Hil/Equivalent				
<b>C STEEL STRUCTURE</b>					
1	Providing and fixing 72X72mmx2mm M.S. Tubular structure, joints mitred, welded and grinded finish, with profiles of required sizes, including all hardwares, anchor bolts, nuts, studs and self driven screws etc complete after applying a priming coat of approved metal primer as per drawing.	Kg	400.00		
2	Trusses as per design, One Side Slope with 60mm X 40mm X 2mm Thick M.S. Tubular Frame with 40mm X 40mm X 1.5mm Thick Tubular Cross Bracing between Truss Frame.	Kg	425.00		
3	Providing and fixing MS Tubular section of 60mmx40mmx2mm Purlin including all hardwares, anchor bolts, nuts, studs and self driven screws etc complete after applying a priming coat of approved metal primer as per design and drawing.	Kg	360.00		
<b>4 ROOFING</b>					
1	Sheets- Providing and fixing roofing sheets of Hot Dip Galvanized, Color coated corrugated sheets 0.5TCT, confirming to IS:513 with self driven screw, epdm washers and sealed with silicon rubber to ensure double protection against roof leakages as per design and drawing having thickness not less than 0.5mm.	SqM	100.00		
	Color : Blue, Make : Jsw, Uttam or equivalent....				
2	Providing and fixing 50mm thick Glass Wool of density not less than 16Kg/cum with one side Aluminium foil, confirming to IS:8183as per drawing.	SqM	85.00		
	Make : Twiga/ Aerowheel/Equivalent				
3	Providing and fixing, uPVC pipes 6 Kg/Cm <sup>2</sup> (IS: 4985) of approved brand & manufacture including all fittings (plain or door) e.g. bends, junction, offsets, access pieces, jointing with rubber ring/solvent cement joints including required supports, cutting chase or holes in walls and floors and making good where required of approved brand & manufacture complete as per direction of Engineer in Charge.				
3a	160 mm OD.	Rm	10.00		
3b	110 mm OD.	Rm	10.00		
	Make : Prince /Ashirwad/Astral/Equivalent				
<b>5 DOORS AND PARTITIONS</b>					
1	<b>GLAZED PARTITION:</b> Providing and fixing 12mm toughened glass fixed to floor, partition and in ceiling and in floor with U-shaped aluminium channels embedded in floor sealed with silicon of approved quality and make complete as directed and as per drawings.	SqM	17.00		
	Make : Saint Gobain/ AIS/Equivalent				
2	<b>GLASS DOOR:</b> Providing and fixing 12 mm thick frameless toughened glass openable doors of any sizes, single leaf and of approved brand and manufacturer, including providing and fixing top & bottom patch fitting, patch lock, strik plate & EP Cylinder, floor spring FS 8400 and door handle OGH55(25x300)/PSS/SSS-H shape and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge & TS. Designer frosted film shall be provided as per drawing or direction of Engineer-in-charge.	SqM	6.00		
	Make: Glass: Fixtures:Ozone/ Dorma/equivalent.				
<b>6 ROLLING SHUTTER</b>					
	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, 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 complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 part 1 and M.S. top cover of required thickness for rolling shutters.				
1	80x1.20 mm M.S. laths with 1.20 mm thick top cover.	SqM	14.00		
2	Providing and fixing ball bearing for rolling shutters	Each	4.00		
3	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
	Exceeding 10.00 sqm and upto 16.80 sqm in the area	SqM	20.00		

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				<b>SUB TOTAL</b>	
				<b>Applicable Taxes</b>	
				<b>Octroi Extra if applicable</b>	
				<b>TOTAL AMOUNT</b>	