

**Bill Of Quantities & Price Schedule for Construction of  
Transformer Room and associated Works at B H E L, Rudrapur**

S. N.	Code No	Particular of Items	Qty	Unit	Rate (Rs.)		Amount (Rs.)
					In Figures	In Words	
		<b><u>1.EARTH WORK</u></b>					
1	2.8	Earth work in excavation by mechanical means [ Hydraulic exceeding ] manual in foundation trenches of drains [ not exceeding 1.5 M in width or 10 Sqm on plan ] including dressing of sides and ramming of bottoms, lift up to 1.5 M, including getting out the excavated soil and disposal of surplus excavated soil as directed, with in a lead of 50 M .	14.31	Cum			
2	2.25	Filling available excavated earth [ excluding rock ] in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating earch deposited layes by ramming and watering, lead up to 50 M to 1.5 M .	14.31	Cum			
3	2.27	Sand filling in plinth.	1.17	Cum			
		<b><u>2. PLAIN CEMENT CONCRETE</u></b>					
1	4.1.9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 [ 1 cement :4 fine sand : 8 graded stone aggregate 40mm nominal size ] .	1.17	Cum			
		<b><u>3. Damp Proof Coarse</u></b>					
1	4.1	Providing and laying damp - proof course 40mm thick with cement concrete 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size ] .	1.15	Sqm			
		<b><u>4. REINFORCED CEMENT CONCRETE</u></b>					
1	5.1.3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to <b><u>plinth level ( Footing)</u></b> 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ]	2.75	Cum			
2	5.2.3	Reonforced cement concrete work in walls [ any thickness ], including attached pilasters, buttresses, plinth and string courses, fillets, <b><u>columns</u></b> , pillars, piers, abutments, posts and struts etc. up to floor five excluding cost of centering, shuttering, finishing and reinforcement 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ] .	1.32	Cum			
3	5.3	Reinforced cement concrete work in beams, suspended floors, <b><u>roofs</u></b> having slope up					

		to 15 landings, balconies, shelves, chajjas, <b>bands</b> , plain window sills, staicases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ] .	7.92	Cum			
		<b>5. FORM WORK</b>					
1	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, floorings, bases of columns, etc. for mass concrete .	2.75	Sqm			
2	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers .	33.06	Sqm			
3	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts .	2.16	Sqm			
4	5.9.3	Suspended floors, roofs, landings, balconies and access platform .	45.29	Sqm			
		<b>6. REINFORCEMENT WORK</b>					
1	5.22.1	Mild steel and medium Tensile steel bars.	16.52	Qtl			
		<b>7. BRICK WORK</b>					
1	6.1.2	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in Cement mortar 1:6 [ 1 cement :6 coarse sand ] .	1.52	Cum			
2	6.4.2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and size in Cement mortar 1:6 [ 1 cement :6 coarse Sand]	8.85	Cum			
		<b>8. FLOORING WORK</b>					
1	11.3.1	Cement concrete flooring 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate ] finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete . 40mm thick with 20mm nominal size stone aggregate .	13.46	Sqm			
2	11.2	Dry brick on edge flooring in required pattern with brick of class desig. 75 on a bed of 12mm mud mortar including filling joints with jamuna sand complete.	13.46	Sqm			
3	5.1.3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1:2:4 [ 1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ]	4.99	Cum			
4	11.4	62mm thick CC flooring with concrete hardner topping under layer 50mm th.					

		cement concrete 1:2:4 & top layer 12 mm thick cement hardner consisting mix 1:2 cement & 6mm nominal size stone agg. Hardening compound is mixed @ 2 litre per 50 Kg of cement or as per manufactures specifications.	33.29	Sqm			
5	16.11	Dry stone pitching 22.5 cm thick including supply of stone & preparing surface complete.	33.29	Sqm			
		<b>9. PLASTERING WORK</b>					
1	13.19	Rough cast plaster upto 10m height above ground level with a mixture of sand and gravel or crushed stone from 6mm 10 10mm nominal size dashed over and including the fresh plaster in two layers, under layer 12mm cement plaster 1:4 [ 1 cement : 4 coarse sand ] and top layer 10mm cement plaster 1:3 [ 1 cement : 3 fine sand ] mixed with 10% finely ground hydrated lime by valume of cement .	65.39	Sqm			
2	13.5.2	15mm cement plaster of mix : 1:6 [ 1 cement : 6 Coarse sand ] .	90.99	Sqm			
		<b>10. STEEL WORK</b>					
1	10.6.2	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 operaion complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters . 80 x 1.20mm M.S. laths with 1.20mm thick top cover .	14.50	Sqm			
2	10.7	Providing and Fixing ball bearing for rolling shutters .	2	Nos			
3	10.8.2	Extra for providing mechanica device chain and crank operation for operating rolling shutters . Exceeding 16.80 Sqm in Area .	14.50	Sqm			
4	10.5	1mm thick MS sheet door.	2.10	Sqm			
		<b>11. PAINTING WORK</b>					
1	13.45.1	Finishing walls with textured exterior paint of required shade : New work [ Two or more coats applied @ 3.28 ltr / 10 Sqm ] over and including base coat of water proofing cement paint applied @ 2.20 Kg / 10 Sqm .	65.39	Sqm			
2	13.40	Dry distemper	90.99	Sqm			
3	13.43.1	Applying one coat of cement primer of approved brand and manufacture on wall					

		surface : Two or more coats on New work .	156.38	Sqm			
4	13.62.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture .	41.50	Sqm			
5	13.50.3	Applying Priming Coat : With ready mixed red oxide zinc chromate primer of approved brand and manufacture on stell galvanised iron / steel works .	41.50	Sqm			
		<b>12. ROOF TREATMENT</b>					
1	12.15	Painting top of roofs with bitumen of approved quality at 17 Kg per 10 Sqm impregnated with a coat of coarse sand at 60 cudm per 10 Sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete .	33.29	Sqm			
2	12.17.1	10cm thick [average] mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25mm thick mud mortar with bhusha at 35Kg per cum of earth and gobri leaping with mix 1:1 [ 1 clay : 1 cow - dung ] and covered with machine moulded tile bricks of class designation 125 conforming to IS : 2690 [ Part 1 ] - 1992 grouted with cement mortar 1:3 [ 1 cement : 3 fine sand ] mixed with 2% of integral water proofing compound by weight of cement and finished neat . With machine moulded F.P.S. brick tiles .	33.29	Sqm			
		<b>13. Anti termite treatment</b>					
1	2.35.3.1	Treatment of soil under floor using chemical emulsion @ one litre per hole , 300mm apart including drilling 12mm dia holes and plugging with cement mortar 1:2 with Chlorpyriphos/ Lindane E.C 20% with 1% concentration.	46.75	Sqm			
2	2.34.1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%.	5.20	Litre			
		<b>14. TOTAL</b>					
		<b>15. Service Tax including Ed.Cess ( if any)</b>		%			
		<b>16. Any Other Taxes/Duties(If any) Pl. Specify</b>		%			

**Signature & seal of the Tenderer**