

**Bill Of Quantities & Price Schedule for Construction of New Office
& Engg. Building and associated Works at B H E L, Rudrapur**

S. N.	Code No	Particular of Items	Qty	Unit	Rate (Rs.)		Amount (Rs.)
					In Figure	In Words	
		<u>1. EARTH WORK</u>					
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 .	678.45	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 earth deposited layers by ramming and watering, lead up to 50 M to 1.5 M .	678.45	Cum			
3	2.27	Supply and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete .	323.32	Cum			
		<u>2. PLAIN CEMENT CONCRETE</u>					
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] .	93.86	Cum			
		<u>3. DAMP PROOF COARSE</u>					
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].	75.82	Sqm			
		<u>4. REINFORCED CEMENT CONCRETE</u>					
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 plinth level 1:2:4 [1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size]	162.65	Cum			
2	5.2.3	Reinforced cement concrete work in walls [any thickness], including attached pilasters, buttresses, plinth and string courses, fillets, columns, 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] .	101.24	Cum			

3	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 landings, balconies, shelves, chajjas, bands, 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] .	130.26	Cum			
		<u>5. FORM WORK</u>					
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 .	164.11	Sqm			
2	5.9.3	Suspended floors, roofs, landings, balconies and access platform .	759.40	Sqm			
3	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers .	661.18	Sqm			
4	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts .	604.80	Sqm			
		<u>6. REINFORCEMENT WORK</u>					
1	5.22.1	Reinforcement for Rcc work including straightening, cutting, bending, placing in position and binding all complete . Mild steel and Medium Tensile steel bars.	345.75	Qtl			
		<u>7. BRICK WORK</u>					
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] .	32.15	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] .	130.14	Cum			
3	6.13.2	Half brick masonry with F.P.S. brick of class designation 75 in superstructure above plinth level up to floor V level . Cement mortar 1:4 [1 cement : 4 coarse sand] .	413.44	Sqm			
		<u>8. FLOORING</u>					
1	11.26.1	Kota Stone flooring over 20mm [average] thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 [1 cement : 4 coarse					

		sand] . 25mm thick .	524.77	Sqm			
2	11.41.2	Providing and laying polished vitrified floor tiles in different sizes [thickness to be specified by the manufacture] with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 [1 cement : 4 coarse sand] including grouting the joints with white cement and matching pigments etc., complete . size of Tile 60 x 60 cm .	110.79	Sqm			
3	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 [thickness to be specified by the manufacture] of approved make in all colours, shades except burundy, bottle green, black of any size as approved by Engineer - in - Charge in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 [1 cement : 3 coarse sand] and jointing with grey cement slurry 3.3Kg per sqm including pointing in white cement mixed with pigment of matching shade complete .	67.77	Sqm			
4	11.38	Providing and laying ceramic glazed tiles 300 x 300 mm [thickness to be specified by the manufacture] of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except white, Ivory, grey, Fume Red Brown laid on 20mm thick bed of cement mortar 1:4 [1 cement : 4 coarse sand] including pointing the joints with white cement and matching pigments etc., complete .	23.61	Sqm			
5	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 .	114.15	Sqm			
6	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.	114.15	Sqm			
		<u>9. PLASTERING WORK</u>					
1	13.4.2	12mm cement plaster of mix : 1:6 [1 cement : 6 Coarse sand] .	617.92	Sqm			
2	13.5.2	15mm cement plaster of mix : 1:6 [1 cement : 6 Coarse sand] .	1109.23	Sqm			
3	13.16.1	6mm cement plaster of mix :					

		1:3 [1 cement : 3 Fine sand]	607.87	Sqm			
		<u>10. PAINTING WORK</u>					
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 .	617.92	Sqm			
2	13.60.1	Plastic paint two coats.	1717.10	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 .	2335.02	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 .	201.42	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 .	201.42	Sqm			
		<u>11. ALUMINIUM WORK /STEEL WORK</u>					
1	10.15	P/F of M.S tubular frames for windows & ventilator	1221.30	Kg			
2	10.1	M.S grill in windows.	1099.2	Kg			
3	10.3	P/F Collapsible gate.	12.15	Sqm			
4	21.1.2.3	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer - in - charge. [Glazing and panelling to be paid for separately] For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC/ neoprene gasket required [Fittings shall be					

		paid for separately] . Polyester powder coated aluminium [Minium thickness of polyester powder coating 50 micron] .	433.53	Kg			
5	21.3 21.3.2	Providing and fixing glazing in aluminium doors, windows, ventilators shutters and partitions etc. with PVC / neoprene gasket etc. complete as per the architectural drawing and the directions of engineer - in - charge. [Cost of aluminium snap beading shall be paid in basic item] : With float glass panes of 5.50mm thickness	170.30	Sqm			
6	21.4 21.4.1	Providing and fixing double action hydraulic floor spring of approved brand and manu- facture IS: 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer - in - charge . With stainless steel cover plate .	19	Nos			
		<u>12. ROOF TREATMENT</u>					
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 cum per 10 Sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete .	646.25	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 .	646.25	Sqm			
3	12.40.2	P/F110mm dia PVC rain water pipe IS 13592 type-A	51.60	M			
4	12.42.6.2	P/F 110 mm dia PVC shoe.	12	No			
5	12.42.5.2	P/F 110mm dia PVC bend.	12	No			
		<u>13.CEILING WORK</u>					
1	12.31.1	P/F False ceiling with 12mm th. plain/ sami perforated or with design ceiling tile phenol formal dehyde synthetic resin bonded.	110.79	Sqm			

		14. Anti termite treatment					
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.	773.32	Sqm			
2	2.34.1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%.	86.00	Litre			
		15. Drainage					
1	2.8	Earth work in excavation in foundation	84.70	Cum			
2	4.1.9	PCC 1:4:8 in foundation .	12.10	Cum			
3	6.1.2	Brick work in 1:6 in foundation	27.60	Cum			
4	11.3.1	C C flooring 40mm thick.	45.00	Sqm			
5	13.6.1	20mm cement plaster in 1:4	166.00	Sqm			
6	19.6.5	Hume pipe laying 450mm dia.	10.00	Rm			
7	5.16	Precast RCC cover on drain. 600x 600 mm x50mm	2.99	Cum			
8	5.22.1	Reinforcement	356.07	Kg			
		16. TOTAL					
		17. Service Tax including Ed.Cess (if any)		%			
		18. Any Other Taxes/Duties(If any) Pl. Specify		%			

Signature & seal of the Tenderer