

BILL OF QUANTITY**NAME OF WORK -PROPOSED ESTIMATE FOR EXTENSION OF D.A.V SCHOOL AT SECTOR -18 INDIRA NAGAR,
LUCKNOW**

S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	96.14	CUM	
2	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, lead up to 50 m and lift upto 1.5 m.	85.97	CUM	
3	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 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	89.31	CUM	
4	Providing and injecting chemical emulsion for pre-constructional antitermite treatment and creating a chemical barrier under and around the column pits wall trenches basement excavation top surface if plinth filling junction surrounding of pipe sand conduits etc, complete (plinth area of the building at ground floor only shall be measured as per I.S.6313 (Part-II-1981) Alderine emulsifiable concentrate or any other approved material such as Heptrachlor or chordance will be used.The rate of application of chemical emulsion shall be as follows :			
	(1)Treatment for masonry & foundation 5 liters per/100 sqm.			
	(2) Back fill in immediate contact with foundation 7.5 liters/100sqm			
	(3) Treatment of top surface of plinth filling 5 liters/100 sqm			
	(4)Treatment junction of wall and the floor 7.5 liters /100 sqm			
	(5)Treatment of soil along external perimeter of building 7.5 liters/100sqm.			
	(6) Treatment of soil under apron along external perimter 5 liters/100 sqm.	107.33	SQM	
5	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. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement			
5.1	FOUNDATION	19.41	CUM	
5.2	Plinth Beam	4.04	CUM	
5.3	LINTEL	0.84	CUM	
5.4	BEAM	14.83	CUM	

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5.5	SLAB	40.44	CUM	
5.6	Column	7.13	CUM	
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level..	83.12	QTL	
7	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	13.17	CUM	
8	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :			
	cement mortar 1:6 (1 cement : 6 coarse sand)	79.32	CUM	
9	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.			
	Cement mortar 1:3 (1 cement : 3 coarse sand)	100.05	SQM	
10	Plastering 12 mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)	886.50	SQM	
11	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.			
	40 mm thick with 20 mm nominal size stone aggregate	127.38	SQM	
12	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.	164.88	SQM	
	Glazed Vitrified tiles Matt/Antiskid finish of size			
	11.41A.3.1 Size of Tile 600 x 600 mm			

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13	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.	54.88	SQM	
	Granite stone slab of colour black, Cherry/Ruby red			
	Area of slab over 0.50 sqm			
14	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work.	7.20	KG	
15	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge			
	(a) Profile B Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	52.50	RM	
16	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 (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	0.49	CUM	
17	Supply of Dash Fastener	6.00	Nos	
18	Mild steel or iron work of small sizes and sections such as holding down bolts, hold fast tierods, gratings etc. (when not included in an over all rates) wrought to required from including supply of steel and its wastage including cost of bolts, nuts if required for and welding, grinding and making holes as required completion of work			

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S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	Amount
a	Supply of M.S grill	364.50	KG	
b	Door/ window frames	145.80	KG	
c	Section	364.50	KG	
d	Steel Railing	90.00	KG	
19	Supply and fixing of flush doors commercial quality conforming to I.S. 2202 Part I (1483) including fixing of wooden cleats and stoppers and including ixing and adjustment of hinges, bolts,locks, handle, springs and other fittings but excluding their supply and including painting with two coats of Black Japan paint on all iron fitting if necessary. Fitting with necessary screws to be supplied departmentally.			
	(a) 32mm thick	2.10	SQM	
20	Fixing of Door, windows/ventilators chaukhats in position.			
	(a) Door chaukhats	7.00	NOS.	
	(b) Window chaukhats	10.00	NOS.	
21	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the drg with float glass panes of 4mm thickness			
	5.0 mm thick glass panes	24.30	SQM	
22	Supply and fixing door and window S.S.fitting of approved make/quality (SQM)	28.08	SQM	
23	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade :	1013.88	SQM	
24	Finishing walls with Acrylic Smooth exterior paint of required shade : 13.46.1 New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	413.42	SQM	
25	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1427.30	SQM	
	TOTAL ESTIMATED COST			
26	Cost of Internal Electrification 6% of the civil work			
27	Cost of Plumbing 2% of the civil work			
	TOTAL COST			