

<b>BILL OF QUANTITY</b>					
<b>NAME OF WORK -PROPOSED ESTIMATE FOR D.A.V. PUBLIC SCHOOL BUILDING , AURI ON GATA NO.-944 DA &amp; 944 GHA AT POST-ANPARA, PARGANA-SINGRAULI, TEHSIL-DUDDHI, DISTRICT:-SONEBHADRA.</b>					
S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	Amount
1	Earth work in excavation in foundation in ordinary soil including lift upto 1.5 m and lead upto 30m. and dressing of sides and ramming of bottom and disposal of surplus excavated earth as directed by the Engineer i/c with in a lead of 30 m.	207.92	CUM		
2	Filling with avilable earth in trenches, plinth, sides of foundation, etc.in layers not exceeding 20 cms in depth consolidating each deposited layer by ramming and watering including lead upto 50m and lift upto 1.5m.	308.72	CUM		
3	Carted earth (4 Km) in trenches, plinth, sides of foundation, etc.in layers not exceeding 20 cms in depth consolidating each deposited layer by ramming and watering including lead upto 50m and lift upto 1.5m.		CUM		
4	Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead upto 50 mt.and lift upto 1.5 m excluding cost of sand	36.26	CUM		
5	Providing and laying in cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded brick aggregate 20 mm nominal size) and curing complete, including cost of form-work, in foundation and floors.	60.68	CUM		
6	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 masonary & 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.	325.00	SQM		
7	R.C.C. work with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1 cement :1.5 coarse sand : 3 aggregates) , in raft foundation and footings excluding supply of reinforcement and its bending the same with 24 WG binding wire and necessary centring and shuttering etc and also including supply of all materials labour and tools and plants etc. required for proper completion of the works.	58.80	CUM		
8	Same as above item 8.0 but for Plinth Beam	9.24	CUM		
9	R.C.C. work with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1 cement :1.5 coarse sand : 3 aggregates) , in lintels of doors and windows excluding supply of reinforcement and its bending the same with 24 WG binding wire and necessary centring and shuttering etc and also including supply of all materials labour and tools and plants etc. required for proper completion of the works.				
		3.63	CUM		
10	As in item 8.0 above but in lighter Beams having spans upto above six meter				
		104.74	CUM		
11	As in item 8.0 above but in SLAB				
		160.50	CUM		
12	R.C.C. work with cement approved coarse sand and 2 cm (3/4") gauge approved stone ballast in the proportion 1:1.5:3 (1 cement :1. coarse sand : 2 aggregates) , columns excluding supply of rienforcement and its bending the same with 24 WG binding wire and necessary centring and shuttering etc and also including supply of all materials labour and tools and plants etc. required for proper completion of the works.				
	GROUND FLOOR TO TOP	38.16	CUM		
13	Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in an over all rates ) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	344.47	QTL		

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S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	Amount
14	First Class brick work in 1:6 cement and fine sand of mortar in foudation and plinth including and plinth including supply of all materials ,labour and T&P etc. required for proper complete of the work.	43.58	CUM		
15	Same as in item no. 15 above but in super-structure including necessary cutting and moulding of brick work as required and also including honey combed brick work in thickness of wall one brick thick. 1:6 1 cement and 6 coarse sand mortar				
	GROUND FLOOR TO TOP	183.29	CUM		
16	Same as in item no. 15 but in 1:4 cement and coarse sand mortar in super structure for wall thickness 4.5" thick .				
	Terrace Floor	62.78	CUM		
17	External Plastering 12 mm thick plaster with cement mortar in proportion of 1:6cement & fine sand of along for external walls	1170.93	SQM		
18	Internal Plastering 12mm thick plaster with cement mortar in proportion of 1:4 cement & coarse sand of along for internal walls	3350.93	SQM		
19	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	113.400	RM		
	Providing and laying vitrified floor tiles in different sizes ( design, thickness & specifications asper Architectural drawing) 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.	1012.607	SQM		
	Kota stone slab flooring over 20 mm (average) thick base of cement mortar 1:4 (1 cement:4 coarse sand)laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with:				
	(a) 25 mm thick	44.550	SQM		
	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	27.000	SQM		
20	2.5 cm thick 1:2:4 plain cement concrete floor with cement approved coarse sand 2cm graded approved stone laid in panels finished with 3 mm in 5:1 as specified over & including 8cm thick base concrete consisting of cement local sand and brick ballast 4cm gauge in the proportion of 1:4:8 and removing any over lapping mortar at the joints of panels if any and giving them a uniform finish including supply of all materials labour and T&P etc. required for proper completion of the work.				
	As item no 20 above but floors shall be 4cm thick instead of 2.5 cm thick and without base concrete.	80.10	SQM		
21	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados,over 12 mm 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.	134.64	SQM		
22	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm 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.	166.07	SQM		
23	Mild steel or iron work of small sizes and sections such as holding down bolts, <b>hold fast</b> 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.	254.40	KG		

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S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	Amount
	Providing & fixing <b>pressed steel door frames</b> conforming to IS:4351 manufactured from commercial mild steel sheet of 1.25 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 1.25 mm presse mild steel welded or rigidly fixed together by mechanical means, adustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strikeplate and shock absorbers as specifie and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge.				
	(a) Profie B	283.50	SQM		
	Providing and laying in <b>cement concrete 1:3:6</b> (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) in holdfast fixing, in Pressed steel chaukhat and curing complete, including cost of form-work.	2.66	CUM		
	Supply of Dash Fastener	168.00	Nos		
	Supply of aluminium grill	561.60	KG		
	Providing and fixing aluminium work for doors, windows, ventilators and partitions extruded built up standard Tubelar section/ appropriate Z section and other section of approved make conforming to IS 733 and IS 1285 , fixing with dash fastner of required dia ans size including necessary filling of the gap at junctions, i.e. at top, bottom and side with required EPDM rubber neoprene gasket aluminium section 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 screw all complete as per architectural drawing and the direction of engineer in charge				
	Powder coated aluminium ( minimum thickness powder coating 50 micron) for fixed porttion i.e. door/ window frames	163.80	KG		
	Providing and fixing aluminium work for doors, windows, ventilators and partitions extruded built up standard Tubelar section/ appropriate Z section and other section of approved make conforming to IS 733 and IS 1285 , fixing with dash fastner of required dia ans size including necessary filling of the gap at junctions, i.e. at top, bottom and side with required EPDM rubber neoprene gasket aluminium section 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 screw all complete as per architectural drawing and the direction of engineer in charge				
	Powder coated aluminium ( minimum thickness powder coating 50 micron) for openable porttion i.e. door/ window frames	561.60	KG		
	Providing and fixing stainless steel (Grade 304) railing made of hollow tubes channels, plates etc. including welding grinding, buffering, polishing making curvature wherever required and fitting the same with necessary stainless steel nut and bolt complete including fixing the railing with necessary accessories complete in all respects				
	Steel Railing	600.00	KG		
29	Supply and fixing of <b>flush doors</b> 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	119.70	SQM		
30	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	8.10	SQM		
31	Fixing of Door, windows/ventilators chaukhats in position.				
	(a) Door chaukhats	40.00	NOS.		
	(b) Window chaukhats	28.00	NOS.		
	(c) Ventilator chaukhats		NOS.		
29	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				

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	4.0 mm thick glass panes	114.84	SQM		
30	Supply and fixing door and window S.S.fitting of approved make/quality (SQM)	197.37	SQM		
31	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water tinnable priming coat with cement primer	3350.93	SQM		
32	Finishing walls with Acrylic smmoth exterior paint of required shade : New work (Two or more coats applied @ 1.67 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm	1170.93	SQM		
33	Providing & applying Birla putty of Av. 1. mm thickness over plastered surface to prepare the surface even & smooth complete	4521.86	SQM		
34	2.5 cm thick 1:2:4 plain cement concrete floor with cement approved coarse sand 2cm graded approved stone laid in panels finished with 3 mm in 5:1 as speciffled over & including 8cm thick base concrete consisting of cement local sand and brick ballast 4cm gauge in the proportion of 1:4:8 and removing any over lapping mortar at the joints of panels if any and giving them a uniform finish including supply of all materials labour and T&P etc. required for proper completion of the work.	325.00	SQM		
34	Supply and fixing of 110(OD) dia PVC ISI marked phenolex or other approved quality complete with rose bend ms clamps 25mmx3.0mm of approved design fixed in wall and including repair of plaster points if damage during fixing of pipe etc complete	32.00	RM		
<b>TOTAL ESTIMATED COST</b>					
<b>Contengencies Amount 2%</b>					
<b>TOTAL COST</b>					