

ag

archgroup

ARCHITECTS, ENGINEERS,
INTERIOR DESIGNERS

Ref. No. DAV-AR/SE/BIP/23-24

Dated 21.2.2024

A-45, Mohan Garden Extn.
(Near Durga Mandir)
Najafgarh Road,
New Delhi - 110059
Mob. : 9430001170
9973550049
E-mail : arch252@gmail.com
PAN No. : ATEPS 5218B

507(A), Ganga-A, Vastu Vihar,
Phase-VI, AIMS-1, NH- 139,
Naubatpur Road, Bhusaula,
Danapur, Patna, Bihar, Pin- 801505,
Post-Mobarakpur, Via Phulwari Sharif,
Near Ashwani School
Mob: 9430001170
9430602121
9973550049

REPORT

ESTIMATE OF CONSTRUCTION COST OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL,
ARWAL, AT AMRA, ARWAL, BIHAR.

<u>S.NO.</u>	<u>DESCRIPTION</u>	<u>AREA (SFT.)</u>	<u>COST/SFT.(RS.=P.)</u>
1.	Foundation & plinth (4'-0" Ht.)	9509.22	1013.62
2.	Ground floor (11'-0" Ht.)	9509.22	1036.24
3.	First floor (11'-0" Ht.)	9509.22	995.62
4.	Second floor (11'-0" Ht.)	9509.22	975.45
5.	Third floor (11'-0" Ht.)	9509.22	990.56
6.	Mumty(11'-0"Ht),W. Tank(6'-5"Ht), Lift Machine room (11' Ht.)	774.83	990.56
	TOTAL (Unit rate)	38811.71	1247.63

The estimated cost is based on Govt. of Bihar, PSR-01-01-2022. For non schedule items, market rate has been taken into account. The estimated cost may vary due to variations in site condition, specifications and changes in drawings.

Details of the estimate of Foundation and Plinth, Ground floor, First floor, Second floor and Third floor are attached with this. For Mumty, Water tank & Machine room, the construction cost has been taken on per square feet basis of Third floor. The over all cost of construction on per square feet basis, on the basis of the mode of measurement of areas, adopted by D.A.V. Public School, comes to Rs. 1247.63 (Rs. One thousand two hundred forty seven and paise sixty three only).

Issued without prejudice.

BINOD KUMAR SINGH.



archgrouparchitects , engineers,
interior designeres

507(A),GANGA-A,VASTU VIHAR,PH-VI,AIIMS-1,NH-139,NAUBATPUR RD,BHUSAULA,PATNA-801505,BIHAR,M-9430001170

REF:-DAV-AR/SB/BIP1/01/23-24

Date:- 21 FEB . 2024

FOR TECHNICAL APPROVAL

ABSTRACT OF COST OF CONSTRUCTION OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL, ARWAL,						
AT AMRA, ARWAL, BIHAR.						
Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
(A) FOUNDATION AND PLINTH						
Cov.area of Ground Floor plinth = 9509.22 SFT (883.76 SM); Plinth height = 4'-0" from NGL,						
Estimate cover complete work upto P.C.C. floor of Plinth with 2'-6" H. Plinth protection and entrance steps.						
SECTION-I (EARTH WORK / SAND FILLING)						
1	20.3A.1	Making 40 cm (16") dia bore upto 4 M depth below ground with hand auger of approved quality in ordinary soil (Vide classification of soil item A) true to plumb and without eccentricity in any stage of operation and disposal of the excavated earth upto 50 M. lead including all lifts all complete as per approved design and direction of E/I.	498.78	RM		
2	20.3A.2	Making 100 cm (40") dia under ream at required with hand auger of approved quality in ordinary soil (Vide classification of soil item-A) true to plumb and without eccentricity in any stage of operation and disposal of the excavated earth up to 50 M lead including all lifts, all complete as per approved design and direction of E/I.	266	Each		
3	2.8.	Earth work in excavation in foundation trenches or drains (not exceeding 1.5M 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.				
	2.8.1	All kinds of soil.	398.93	Cum		
4	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidation each deposited layer by ramming and watering lead.	700.16	Cum		
5	2.28	Supplying and filling in plinth with local sand and under floors including watering, ramming, consolidating and dressing complete.	208.51	Cum		
SECTION-II (R.C.C./P.C.C. WORK)						
6	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
	4.1.5	1:3:6 (1 cement, 3 coarse sand, 6 graded stone aggregate 20mm nominal size.)	36.61	Cum		
	4.1.3	1:2:4 (1 cement, 2 coarse sand, 4 graded stone aggregate 20mm nominal size.)	62.99	Cum		
7	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth.				
	5.1.2	1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size)	621.40	Cum		
8	5.9	Centering and shuttering including strutting propping etc and removal of form for				
	5.9.1	Foundations, footings, bases of columns etc. for mass concrete.	423.99	Sqm		
	5.9.5	Lintels, Beams, plinth beams, girders, bressumers and cantilevers.	648.77	Sqm		
	5.9.6	Columns, pillars, piers, abutments posts and struts.	130.11	Sqm		
9	5.22	Reinforcement for R.C.C. work including straight-ening ,cutting ,bending,placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically treated bars TMTC-500-8mm.	12000	Kg		
	5.22.7C	Thermo-Mechanically treated bars TMTC-500-12mm	13000	Kg		
	5.22.7D	Thermo-Mechanically treated bars TMT Fe500-16mm.	15000	Kg		
	5.22.7E	Thermo-Mechanically treated bars TMT Fe500-20mm.	9000	Kg		
		SECTION - III (MASONRY WORK)				
10	6.1A	Brick work with bricks of class designation 100A in foundations and plinth in				
	6.1.14A	Cement mortar 1:6 (1 cement:6 coarse sand)	95.02	Cum		
11	6.18A	Hail brick masonry with bricks of class designation 100A in foundations and plinth in:				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	137.16	Sqm		
		SECTION-IV (FLOORING WORK)				
12	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification ad direction of E/I.	943.31	Sqm		
		SECTION- V (PLASTERING WORK)				
13	13.17.1	12 mm cement plaster 1:3 (1 cement; 3coarse sand) finished with a floating coat of neat cement .	220.49	Sqm.		
		SECTION -VI (MISCELLANEOUS ITEMS)				
14	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement; 3 coarse sand; 6 graded stone aggregate 20mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		fine sand, including finishing the top smooth.	114.40	Sqm.		
		TOTAL				
		ROUNDING OFF				
		Cost of construction per S.Ft.				

archgroup

architects , engineers,
interior designeres

507(A),GANGA-A,VASTU VIHAR,PH-VI,AIIMS-1,NH-139,NAUBATPUR RD,BHUSAULA,PATNA-801505,BIHAR,M-9430001170

REF:-DAV-AR/SB/BIP1/01/23-24

Date:- 21 FEB . 2024

FOR TECHNICAL APPROVAL

ABSTRACT OF COST OF CONSTRUCTION OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL, ARWAL,						
AT AMRA, ARWAL, BIHAR.						
Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		(B) GROUND FLOOR				
		Cov.area of Ground Floor = 9509.22 SFT (883.76 SM) ; Floor height = 11'-0"				
		SECTION-I (R.C.C./P.C.C. WORK)				
1	5.2	Reinforced cement concrete work in wall(any thickness)including attach pilasters, buttresses, plinth and string courses,fillets, columns, pillars, piers, abutments,posts and struts etc. upto floor five level excluding cost of centering, shuttering finishing and reinforcement.				
	5.2.2	1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size.)	32.21	Cum		
2	5.3	Reinforced cement concrete work in Beams , suspended floors, roofs, having slope upto 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, stair cases and spiaral stair cases upto floor five level excluding the cost of centering shuttering, finishing and reinforcement with 1:1.5:3 (1 cement;1.5coarse sand; 3 graded stone aggregate 20 mm nominal size)	182.87	Cum		
3	5.9	Centering and shuttering including strutting propping etc and removal of form for				
	5.9.3	Suspended floors, roofs, landings balconies and access platform.	900.25	Sqm		
	5.9.5	Lintels, Beams, plinth beams, girders, bressumers and cantilevers.	533.86	Sqm		
	5.9.6	Columns, pillars, piers, abutments posts and struts.	396.08	Sqm		
	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cms wide	140.50	Rm		
	5.9.19	Weather shade,chajjas, corbels etc. including edges	48.78	Sqm		
4	5.22	Reinforcement for R.C.C. work including straight-ening ,cutting ,bending,placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically treated bars TMTC-500-8mm.	10040	Kg		
	5.22.7C	Thermo-Mechanically treated bars TMTC-500-12mm	4000	Kg		
	5.22.7D	Thermo-Mechanically treated bars TMT Fe500-16mm.	6100	Kg		
	5.22.7E	Thermo-Mechanically treated bars TMT Fe500-20mm.	5000	Kg		
		SECTION - II (MASONRY WORK)				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
5	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in super structure above plinth level upto floor V level in cement mortar 1:6(1 cement; 6 coarse sand)	174.42	Cum		
6	6.18A+	Half brick masonry with bricks of class designation 100A in foundations and plinth in				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	357.14	Sqm		
	6.19A	Extra for half brick masonry in super structure above plinth level upto floor V level.	357.14	Sqm		
		SECTION - III(FLOORING WORK)				
7	11.26	Kota stone slab 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 C.M. 1:4 (1 cement, 4 coarse sand)				
	11.26.1	20 to 25 mm thick.	347.68	Sqm		
8	11.27	Kota stone slabs 20mm thick in risers of steps, skirting, dado and pillars laid on 12mm average thick cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete.	75.63	Sqm		
9	11.23	Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:				
	11.23.2	Rajnagar plain white marble 18 mm thick above 0.10 sqm upto 0.20 sqm	285.74	Sqm		
10	11.22	Tile work in skirting, risers of steps and dado (up to 2 m height) over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse of sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.				
	11.22.1	Marble tiles (polished) Raj nagar 8 mm thick.	32.12	Sqm		
11	11.38	Providing and laying Ceramic glazed floor tiles 300x 300 mm (thickness to be specified by the manufacturer)of first quality conforming to IS:15622 of approved make in colours such shades except white, Ivory, Grey, Fume Red, Brown laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	68.29	Sqm		
12	11.36	Providing and fixing first quality ceramic glazed				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		wall tiles confirming to IS 15622(Thickness to be specified by 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 12mm thick bed of cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry @ 3.3 Kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	461.73	Sqm		
13	11.41A	Providing and laying vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and confirming to IS: 15622 of approved brand & manufacturer, in all colours and shades, laid on 20mm 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.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1- Size of Tiles 600x600 mm	123.19	Sqm		
		SECTION-IV (PLASTER WORK)				
14	13.11	12 mm cement plaster of mix				
	13.11.4	1:6 (1 cement; 6 coarse sand).	977.64	Sqm		
15	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.4	1:6 (1 cement; 6 coarse sand).	1441.92	Sqm		
16	13.24	6 mm cement plaster to ceiling of mix				
	13.24.2	1:4 (1 cement; 4coarse sand).	1010.46	Sqm		
		SECTION-V (CARPENTARY,STEEL,HARDWARE)				
17	10.14.1	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel T-section, joints mitred and welded with 15x3 mm lugs 10 cm long embeded in cement concrete blocks of 15x10x10cm of 1:3:6 (1 cement; 3 coarse sand; 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including.	356	Kg		
18	10.12.1	Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections,				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		joints mitred and welded with 15x3 mm lugs 10cm long with steel lugs embeded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement; 3 coarse sand;6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of 4mm glass panes with glazing clips and special metal sash putty of approved make complete including applying a primer coat of approved steel primer ,excluding the cost of metal beading and other fittings except necessary hinges or pivot as required.	5.67	Sqm		
19	9.5.2.2	Providing and fixing 30mm thick Kiln seasoned and chemically treated hollock wood paneled or paneled and glazed shutters for doors, windows, and clear story windows including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws excluding panelling which will be paid for separetely,all complete as per direction of Engineer-in-charge.	28.95	Sqm		
		Note:-Alluminium sheet coating on inner surface of toilet door upto 4'-0" height shall be provided.				
20	10.3	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.	23.18	Sqm		
21	9.48	Providing and fixing M.S.grills of required pattern in frames of windows etc.with M.S. flats, square or round bars etc including priming coat with approved steel primer all complete.				
	9.48.1	Fixed to steel windows by welding.	1141	Kg		
	9.48.2	Fixed to openings/wooden frames with rawl plugs screws etc.	242	Kg		
22	9.100.	Providing and fixing alluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour or shade with necessary screws etc. Compete.				
	9.100.1	125 mm	56	No.		
23	9.97	Providing and fixing alluminium sliding tower bolts ISI marked,anodised(anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		required colour and shade with necessary screws etc. complete.				
	9.97.1	300x10mm	56	No.		
24	9.96	Providing and fixing alluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with nuts and screws etc. complete.				
	9.96.1	300x16mm	28	No.		
25	9.101	Providing and fixing alluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper.	13	No.		
		SECTION-VI (ALUMINIUM WORK)				
26	MR	Providing and fixing aluminium framed doors, sliding windows, ventilators and partitions with Aluminium sections, 4 mm thick plain glass, rubber, handles, door bolts, sliding tower bolts and locks, composite panel etc. complete.	102.93	Sqm		
		SECTION-VII (STAINLESS STEEL WORK)				
27	MR	Providing and fixing Jindal's stainless steel pipe of 18 gauge and of grade 304, ISI Marked railing 0.90 metre height etc. complete.	6.69	Sqm		
		SECTION-VIII (FINISHING WORK)				
28	13.46A	Finishing walls with premium Acrylic smooth exterior paint with silicone additives of required shade				
	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm.)	839.53	Sqm		
29	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications.				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm.	202.62	Sqm		
30	13.81A	Distempering with 1st quality acrylic distemper, having VOC (Volitle Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.81.2B	Two coats	1733.90	Sqm		
31	13.78	Applying one coat of cement primer of approved				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		brand and manufacture on wall surface:				
	13.78.1	Cement primer	1733.90	Sqm		
32	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1733.90	Sqm		
33	13.81	Applying priming coat:				
	13.81.2	with ready mixed alluminium primer of approved brand and manufacture on resinous wood and ply wood.	60.79	Sqm		
	13.81.4	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanised iron/steel works (second coat)	189.76	Sqm		
34	13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade.				
	13.82.1	New steel work (Two or more coats.)	189.76	Sqm		
	13.82.2	New wood work (Two or more coats)	60.79	Sqm		
		SECTION- IX (MISCELLANEOUS WORK)				
35	10.18	Providing and fixing circular/ Hexagonal cast iron box for ceilling fan clamp 140mm internal dia,73mm height 5mm thick rim bottom and top lid of 1.5 mm thk. M.S.Sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners, clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	48	Each		
		SUB TOTAL				
36		Add 9% extra for external and internal PHE work, external and internal electrical works,roof treatment				
		TOTAL				
		ROUNDING OFF				
		Cost of construction per S.Ft.				

archgroup

architects , engineers,
interior designeres

507(A),GANGA-A,VASTU VIHAR,PH-VI,AIIMS-1,NH-139,NAUBATPUR RD,BHUSAULA,PATNA-801505,BIHAR,M-9430001170

REF:-DAV-AR/SB/BIP1/01/23-24

Date:- 21 FEB . 2024

FOR TECHNICAL APPROVAL

ABSTRACT OF COST OF CONSTRUCTION OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL, ARWAL,						
AT AMRA, ARWAL, BIHAR.						
Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		(C) FIRST FLOOR				
		Cov.area of First Floor = 9509.22 SFT (883.76 SM) ; Floor height = 11'-0"				
		SECTION-I (R.C.C./P.C.C. WORK)				
1	5.2	Reinforced cement concrete work in wall(any thickness)including attach pilasters, buttresses, plinth and string courses,fillets, columns, pillars, piers, abutments,posts and struts etc. upto floor five level excluding cost of centering, shuttering finishing and reinforcement.				
	5.2.2	1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size.)	31.99	Cum		
2	5.3	Reinforced cement concrete work in Beams , suspended floors, roofs, having slope upto 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, stair cases and spiaral stair cases upto floor five level excluding the cost of centering shuttering, finishing and reinforcement with 1:1.5:3 (1 cement;1.5coarse sand; 3 graded stone aggregate 20 mm nominal size)	179.21	Cum		
3	5.9	Centering and shuttering including strutting propping etc and removal of form for				
	5.9.3	Suspended floors, roofs, landings balconies and access platform.	883.75	Sqm		
	5.9.5	Lintels, Beams, plinth beams, girders, bressumers and cantilevers.	514.33	Sqm		
	5.9.6	Columns, pillars, piers, abutments posts and struts.	391.83	Sqm		
	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cms wide	140.50	Rm		
	5.9.19	Weather shade,chajjas, corbels etc. including edges	65.15	Sqm		
4	5.22	Reinforcement for R.C.C. work including straight-ening ,cutting ,bending,placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically treated bars TMTC-500-8mm.	9855	Kg		
	5.22.7C	Thermo-Mechanically treated bars TMTC-500-12mm	3950	Kg		
	5.22.7D	Thermo-Mechanically treated bars TMT Fe500-16mm.	6000	Kg		
	5.22.7E	Thermo-Mechanically treated bars TMT Fe500-20mm.	4900	Kg		
		SECTION - II (MASONRY WORK)				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
5	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in super structure above plinth level upto floor V level in cement mortar 1:6(1 cement; 6 coarse sand)	179.59	Cum		
6	6.18A+	Half brick masonry with bricks of class designation 100A in foundations and plinth in				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	316.69	Sqm		
	6.19A	Extra for half brick masonry in super structure above plinth level upto floor V level.	316.69	Sqm		
		SECTION - III(FLOORING WORK)				
7	11.26	Kota stone slab 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 C.M. 1:4 (1 cement, 4 coarse sand)				
	11.26.1	20 to 25 mm thick.	398.46	Sqm		
8	11.27	Kota stone slabs 20mm thick in risers of steps, skirting, dado and pillars laid on 12mm average thick cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete.	57.85	Sqm		
9	11.23	Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:				
	11.23.2	Rajnagar plain white marble 18 mm thick above 0.10 sqm upto 0.20 sqm	207.64	Sqm		
10	11.22	Tile work in skirting, risers of steps and dado (up to 2 m height) over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse of sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.				
	11.22.1	Marble tiles (polished) Raj nagar 8 mm thick.	28.98	Sqm		
11	11.38	Providing and laying Ceramic glazed floor tiles 300x 300 mm (thickness to be specified by the manufacturer)of first quality conforming to IS:15622 of approved make in colours such shades except white, Ivory, Grey, Fume Red, Brown laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	51.28	Sqm		
12	11.36	Providing and fixing first quality ceramic glazed				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		wall tiles conforming to IS 15622(Thickness to be specified by 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 12mm thick bed of cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry @ 3.3 Kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	332.78	Sqm		
13	11.41A	Providing and laying vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and confirming to IS: 15622 of approved brand & manufacturer, in all colours and shades, laid on 20mm 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.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1- Size of Tiles 600x600 mm	56.30	Sqm		
14	11.21	Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS: 4457, complete as per the direction of Engineer-in-Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement: 4 coarse sand).				
	11.21.1.1	Acid and alkali resistant tiles.	56.30	Sqm		
	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement: 4 coarse sand).				
	11.21.2.1	Acid and alkali resistant tiles.	27.88	Sqm		
		SECTION-IV (PLASTER WORK)				
15	13.11	12 mm cement plaster of mix				
	13.11.4	1:6 (1 cement; 6 coarse sand).	928.60	Sqm		
16	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.4	1:6 (1 cement; 6 coarse sand).	1392.88	Sqm		
17	13.24	6 mm cement plaster to ceiling of mix				
	13.24.2	1:4 (1 cement; 4coarse sand).	1005.4	Sqm		

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		SECTION-V (CARPENTARY,STEEL,HARDWARE)				
18	10.14.1	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel T-section, joints mitred and welded with 15x3 mm lugs 10 cm long embeded in cement concrete blocks of 15x10x10cm of 1:3:6 (1 cement; 3 coarse sand; 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including.	418.80	Kg		
19	10.12.1	Providing and fixing steel glazed doors,windows and ventilators of standard rolled steel sections, joints mitred and welded with 15x3 mm lugs 10cm long with steel lugs embeded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement; 3 coarse sand;6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of 4mm glass panes with glazing clips and special metal sash putty of approved make complete including applying a primer coat of approved steel primer ,excluding the cost of metal beading and other fittings except necessary hinges or pivot as required.	5.16	Sqm		
20	9.5.2.2	Providing and fixing 30mm thick Kiln seasoned and chemically treated hollock wood paneled or paneled and glazed shutters for doors, windows, and clear story windows including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws excluding panelling which will be paid for separetely,all complete as per direction of Engineer-in-charge.	33.50	Sqm		
		Note:-Alluminium sheet coating on inner surface of toilet door upto 4'-0" height shall be provided.				
21	9.48	Providing and fixing M.S.grills of required pattern in frames of windows etc.with M.S. flats, square or round bars etc including priming coat with approved steel primer all complete.				
	9.48.1	Fixed to steel windows by welding.	1138	Kg		
	9.48.2	Fixed to openings/wooden frames with rawl plugs screws etc.	436	Kg		
22	9.100.	Providing and fixing alluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour or				

	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		shade with necessary screws etc. Compete.				
	9.100.1	125 mm	52	No.		
23	9.97	Providing and fixing alluminium sliding tower bolts ISI marked,anodised(anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.97.1	300x10mm	52	No.		
24	9.96	Providing and fixing alluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with nuts and screws etc. complete.				
	9.96.1	300x16mm	26	No.		
25	9.101	Providing and fixing alluminium hanging floor door stopper,ISI marked,anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper.	15	No.		
		SECTION-VI (ALUMINIUM WORK)				
26	MR	Providing and fixing aluminium framed doors, sliding windows, ventilators and partitions with Aluminium sections, 4 mm thick plain glass, rubber, handles, door bolts, sliding tower bolts and locks, composite panel etc. complete.	95.73	Sqm		
		SECTION-VII (STAINLESS STEEL WORK)				
27	MR	Providing and fixing Jindal's stainless steel pipe of 18 gauge and of grade 304, ISI Marked railing 0.90 metre height etc. complete.	6.69	Sqm		
		SECTION-VIII (FINISHING WORK)				
28	13.46A	Finishing walls with premium Acrylic smooth exterior paint with silicone additives of required shade				
	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm.)	854.77	Sqm		
29	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications.				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm.	270.16	Sqm		
30	13.81A	Distemping with 1st quality acrylic distemper, having VOC (Volitle Organic Compound) content				

	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.81.2B	Two coats	1786.92	Sqm		
31	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	1786.92	Sqm		
32	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1786.92	Sqm		
33	13.81	Applying priming coat:				
	13.81.2	with ready mixed alluminium primer of approved brand and manufacture on resinous wood and ply wood.	70.35	Sqm		
	13.81.4	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanised iron/steel works (second coat)	138.82	Sqm		
34	13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade.				
	13.82.1	New steel work (Two or more coats.)	138.82	Sqm		
	13.82.2	New wood work (Two or more coats)	70.35	Sqm		
		SECTION- IX (MISCELLANEOUS WORK)				
35	10.18	Providing and fixing circular/ Hexagonal cast iron box for ceilling fan clamp 140mm internal dia,73mm height 5mm thick rim bottom and top lid of 1.5 mm thk. M.S.Sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners, clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	48	Each		
		SUB TOTAL				
36		Add 9% extra for external and internal PHE work, external and internal electrical works,roof treatment				
		TOTAL				
		ROUNDING OFF				
		Cost of construction per S.Ft.				

archgroup

architects , engineers,
interior designeres

507(A),GANGA-A,VASTU VIHAR,PH-VI,AIIMS-1,NH-139,NAUBATPUR RD,BHUSAULA,PATNA-801505,BIHAR,M-9430001170

REF:-DAV-AR/SB/BIP1/01/23-24

Date:- 21 FEB . 2024

FOR TECHNICAL APPROVAL

ABSTRACT OF COST OF CONSTRUCTION OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL, ARWAL,						
AT AMRA, ARWAL, BIHAR.						
Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
(D) SECOND FLOOR						
Cov.area of Second Floor = 9509.22 SFT (883.76 SM) ; Floor height = 11'-0"						
SECTION-I (R.C.C./P.C.C. WORK)						
1	5.2	Reinforced cement concrete work in wall(any thickness)including attach pilasters, buttresses, plinth and string courses,fillets, columns, pillars, piers, abutments,posts and struts etc. upto floor five level excluding cost of centering, shuttering finishing and reinforcement.				
	5.2.2	1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size.)	31.99	Cum		
2	5.3	Reinforced cement concrete work in Beams , suspended floors, roofs, having slope upto 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, stair cases and spiaral stair cases upto floor five level excluding the cost of centering shuttering, finishing and reinforcement with 1:1.5:3 (1 cement;1.5coarse sand; 3 graded stone aggregate 20 mm nominal size)	178.66	Cum		
3	5.9	Centering and shuttering including strutting propping etc and removal of form for				
	5.9.3	Suspended floors, roofs, landings balconies and access platform.	883.75	Sqm		
	5.9.5	Lintels, Beams, plinth beams, girders, bressumers and cantilevers.	509.68	Sqm		
	5.9.6	Columns, pillars, piers, abutments posts and struts.	391.83	Sqm		
	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cms wide	140.50	Rm		
	5.9.19	Weather shade,chajjas, corbels etc. including edges	66.72	Sqm		
4	5.22	Reinforcement for R.C.C. work including straight-ening ,cutting ,bending,placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically treated bars TMTC-500-8mm.	9820	Kg		
	5.22.7C	Thermo-Mechanically treated bars TMTC-500-12mm	3930	Kg		
	5.22.7D	Thermo-Mechanically treated bars TMT Fe500-16mm.	6000	Kg		
	5.22.7E	Thermo-Mechanically treated bars TMT Fe500-20mm.	4900	Kg		
SECTION - II (MASONRY WORK)						

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
5	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in super structure above plinth level upto floor V level in cement mortar 1:6(1 cement; 6 coarse sand)	169.36	Cum		
6	6.18A+	Half brick masonry with bricks of class designation 100A in foundations and plinth in				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	323.33	Sqm		
	6.19A	Extra for half brick masonry in super structure above plinth level upto floor V level.	323.33	Sqm		
		SECTION - III(FLOORING WORK)				
7	11.26	Kota stone slab 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 C.M. 1:4 (1 cement, 4 coarse sand)				
	11.26.1	20 to 25 mm thick.	398.46	Sqm		
8	11.27	Kota stone slabs 20mm thick in risers of steps, skirting, dado and pillars laid on 12mm average thick cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete.	57.85	Sqm		
9	11.23	Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:				
	11.23.2	Rajnagar plain white marble 18 mm thick above 0.10 sqm upto 0.20 sqm	179.76	Sqm		
10	11.22	Tile work in skirting, risers of steps and dado (up to 2 m height) over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse of sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.				
	11.22.1	Marble tiles (polished) Raj nagar 8 mm thick.	26.19	Sqm		
11	11.38	Providing and laying Ceramic glazed floor tiles 300x 300 mm (thickness to be specified by the manufacturer)of first quality conforming to IS:15622 of approved make in colours such shades except white, Ivory, Grey, Fume Red, Brown laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	51.28	Sqm		
12	11.36	Providing and fixing first quality ceramic glazed				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		wall tiles confirming to IS 15622(Thickness to be specified by 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 12mm thick bed of cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry @ 3.3 Kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	304.90	Sqm		
13	11.41A	Providing and laying vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and confirming to IS: 15622 of approved brand & manufacturer, in all colours and shades, laid on 20mm 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.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1- Size of Tiles 600x600 mm	170.14	Sqm		
		SECTION-IV (PLASTER WORK)				
14	13.11	12 mm cement plaster of mix				
	13.11.4	1:6 (1 cement; 6 coarse sand).	887.82	Sqm		
15	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.4	1:6 (1 cement; 6 coarse sand).	1352.13	Sqm		
16	13.24	6 mm cement plaster to ceiling of mix				
	13.24.2	1:4 (1 cement; 4coarse sand).	1005.4	Sqm		
		SECTION-V (CARPENTARY,STEEL,HARDWARE)				
17	10.14.1	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel T-section, joints mitred and welded with 15x3 mm lugs 10 cm long embeded in cement concrete blocks of 15x10x10cm of 1:3:6 (1 cement; 3 coarse sand; 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including.	334.65	Kg		
18	10.12.1	Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections,				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		joints mitred and welded with 15x3 mm lugs 10cm long with steel lugs embeded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement; 3 coarse sand;6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of 4mm glass panes with glazing clips and special metal sash putty of approved make complete including applying a primer coat of approved steel primer ,excluding the cost of metal beading and other fittings except necessary hinges or pivot as required.	4.18	Sqm		
19	9.5.2.2	Providing and fixing 30mm thick Kiln seasoned and chemically treated hollock wood paneled or paneled and glazed shutters for doors, windows, and clear story windows including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws excluding panelling which will be paid for separately,all complete as per direction of Engineer-in-charge.	26.67	Sqm		
		Note:-Alluminium sheet coating on inner surface of toilet door upto 4'-0" height shall be provided.				
20	9.48	Providing and fixing M.S.grills of required pattern in frames of windows etc.with M.S. flats, square or round bars etc including priming coat with approved steel primer all complete.				
	9.48.1	Fixed to steel windows by welding.	1179	Kg		
	9.48.2	Fixed to openings/wooden frames with rawl plugs screws etc.	344.2	Kg		
21	9.100.	Providing and fixing alluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour or shade with necessary screws etc. Compete.				
	9.100.1	125 mm	46	No.		
22	9.97	Providing and fixing alluminium sliding tower bolts ISI marked,anodised(anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.97.1	300x10mm	46	No.		
23	9.96	Providing and fixing alluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with nuts and screws etc.				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		complete.				
	9.96.1	300x16mm	23	No.		
24	9.101	Providing and fixing alluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper.	12	No.		
		SECTION-VI (ALUMINIUM WORK)				
25	MR	Providing and fixing aluminium framed doors, sliding windows, ventilators and partitions with Aluminium sections, 4 mm thick plain glass, rubber, handles, door bolts, sliding tower bolts and locks, composite panel etc. complete.	98.52	Sqm		
		SECTION-VII (STAINLESS STEEL WORK)				
26	MR	Providing and fixing Jindal's stainless steel pipe of 18 gauge and of grade 304, ISI Marked railing 0.90 metre height etc. complete.	6.69	Sqm		
		SECTION-VIII (FINISHING WORK)				
27	13.46A	Finishing walls with premium Acrylic smooth exterior paint with silicone additives of required shade				
	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm.)	858.33	Sqm		
28	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications.				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm.	270.16	Sqm		
29	13.81A	Distemping with 1st quality acrylic distemper, having VOC (Volitle Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.81.2B	Two coats	1730.79	Sqm		
30	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	1730.79	Sqm		
31	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1730.79	Sqm		
32	13.81	Applying priming coat:				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
	13.81.2	with ready mixed alluminium primer of approved brand and manufacture on resinous wood and ply wood.	56.00	Sqm		
	13.81.4	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanised iron/steel works (second coat)	132.08	Sqm		
33	13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade.				
	13.82.1	New steel work (Two or more coats.)	132.08	Sqm		
	13.82.2	New wood work (Two or more coats)	56.00	Sqm		
		SECTION- IX (MISCELLANEOUS WORK)				
34	10.18	Providing and fixing circular/ Hexagonal cast iron box for ceilling fan clamp 140mm internal dia,73mm height 5mm thick rim bottom and top lid of 1.5 mm thk. M.S.Sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners, clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	50	Each		
		SUB TOTAL				
35		Add 9% extra for external and internal PHE work, external and internal electrical works,roof treatment				
		TOTAL				
		ROUNDING OFF				
		Cost of construction per S.Ft.				

archgroup

architects , engineers,
interior designeres

507(A),GANGA-A,VASTU VIHAR,PH-VI,AIIMS-1,NH-139,NAUBATPUR RD,BHUSAULA,PATNA-801505,BIHAR,M-9430001170
REF:-DAV-AR/SB/BIP1/01/23-24 Date:- 21 FEB . 2024

FOR TECHNICAL APPROVAL

ABSTRACT OF COST OF CONSTRUCTION OF BLOCK-1, PHASE-I OF D.A.V. PUBLIC SCHOOL, ARWAL,						
AT AMRA, ARWAL, BIHAR.						
Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		(E) THIRD FLOOR				
		Cov.area of Third Floor = 9509.22 SFT (883.76 SM) ; Floor height = 11'-0"				
		SECTION-I (R.C.C./P.C.C. WORK)				
1	5.2	Reinforced cement concrete work in wall(any thickness)including attach pilasters, buttresses, plinth and string courses,fillets, columns, pillars, piers, abutments,posts and struts etc. upto floor five level excluding cost of centering, shuttering finishing and reinforcement.				
	5.2.2	1:1.5:3 (1 cement, 1.5 coarse sand, 3 graded stone aggregate 20mm nominal size.)	31.99	Cum		
2	5.3	Reinforced cement concrete work in Beams , suspended floors, roofs, having slope upto 15 landings, balconies, shelves, chajjas, lintels, bands, plain window sills, stair cases and spiaral stair cases upto floor five level excluding the cost of centering shuttering, finishing and reinforcement with 1:1.5:3 (1 cement;1.5coarse sand; 3 graded stone aggregate 20 mm nominal size)	179.21	Cum		
3	5.9	Centering and shuttering including strutting propping etc and removal of form for				
	5.9.3	Suspended floors, roofs, landings balconies and access platform.	883.75	Sqm		
	5.9.5	Lintels, Beams, plinth beams, girders, bressumers and cantilevers.	514.33	Sqm		
	5.9.6	Columns, pillars, piers, abutments posts and struts.	391.83	Sqm		
	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cms wide	140.50	Rm		
	5.9.19	Weather shade,chajjas, corbels etc. including edges	65.15	Sqm		
4	5.22	Reinforcement for R.C.C. work including straight-ening ,cutting ,bending,placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically treated bars TMTC-500-8mm.	9855	Kg		
	5.22.7C	Thermo-Mechanically treated bars TMTC-500-12mm	3950	Kg		
	5.22.7D	Thermo-Mechanically treated bars TMT Fe500-16mm.	6000	Kg		
	5.22.7E	Thermo-Mechanically treated bars TMT Fe500-20mm.	4900	Kg		
		SECTION - II (MASONRY WORK)				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
5	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in super structure above plinth level upto floor V level in cement mortar 1:6(1 cement; 6 coarse sand)	180.06	Cum		
6	6.18A+	Half brick masonry with bricks of class designation 100A in foundations and plinth in				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse sand)	317.47	Sqm		
	6.19A	Extra for half brick masonry in super structure above plinth level upto floor V level.	317.47	Sqm		
		SECTION - III(FLOORING WORK)				
7	11.26	Kota stone slab 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 C.M. 1:4 (1 cement, 4 coarse sand)				
	11.26.1	20 to 25 mm thick.	398.46	Sqm		
8	11.27	Kota stone slabs 20mm thick in risers of steps, skirting, dado and pillars laid on 12mm average thick cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs including rubbing and polishing complete.	57.85	Sqm		
9	11.23	Marble stone flooring with 18 mm thick marble stone (sample of marble shall be approved by Engineer-in-charge) over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with:				
	11.23.2	Rajnagar plain white marble 18 mm thick above 0.10 sqm upto 0.20 sqm	207.64	Sqm		
10	11.22	Tile work in skirting, risers of steps and dado (up to 2 m height) over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse of sand) and jointed with grey cement slurry @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.				
	11.22.1	Marble tiles (polished) Raj nagar 8 mm thick.	28.98	Sqm		
11	11.38	Providing and laying Ceramic glazed floor tiles 300x 300 mm (thickness to be specified by the manufacturer)of first quality conforming to IS:15622 of approved make in colours such shades except white, Ivory, Grey, Fume Red, Brown laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	51.28	Sqm		
12	11.36	Providing and fixing first quality ceramic glazed				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		wall tiles confirming to IS 15622(Thickness to be specified by 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 12mm thick bed of cement mortar 1:3 (1 cement, 3 coarse sand) and jointed with grey cement slurry @ 3.3 Kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	332.78	Sqm		
13	11.41A	Providing and laying vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and confirming to IS: 15622 of approved brand & manufacturer, in all colours and shades, laid on 20mm 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.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1- Size of Tiles 600x600 mm	112.60	Sqm		
		SECTION-IV (PLASTER WORK)				
14	13.11	12 mm cement plaster of mix				
	13.11.4	1:6 (1 cement; 6 coarse sand).	930.46	Sqm		
15	13.12	15 mm cement plaster on rough side of single or half brick wall of mix				
	13.12.4	1:6 (1 cement; 6 coarse sand).	1394.74	Sqm		
16	13.24	6 mm cement plaster to ceiling of mix				
	13.24.2	1:4 (1 cement; 4coarse sand).	1005.4	Sqm		
		SECTION-V (CARPENTARY,STEEL,HARDWARE)				
17	10.14.1	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel T-section, joints mitred and welded with 15x3 mm lugs 10 cm long embeded in cement concrete blocks of 15x10x10cm of 1:3:6 (1 cement; 3 coarse sand; 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including.	418.80	Kg		
18	10.12.1	Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections,				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		joints mitred and welded with 15x3 mm lugs 10cm long with steel lugs embeded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement; 3 coarse sand;6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including providing and fixing of 4mm glass panes with glazing clips and special metal sash putty of approved make complete including applying a primer coat of approved steel primer ,excluding the cost of metal beading and other fittings except necessary hinges or pivot as required.	5.16	Sqm		
19	9.5.2.2	Providing and fixing 30mm thick Kiln seasoned and chemically treated hollock wood paneled or paneled and glazed shutters for doors, windows, and clear story windows including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws excluding panelling which will be paid for separately,all complete as per direction of Engineer-in-charge.	33.50	Sqm		
		Note:-Alluminium sheet coating on inner surface of toilet door upto 4'-0" height shall be provided.				
20	9.48	Providing and fixing M.S.grills of required pattern in frames of windows etc.with M.S. flats, square or round bars etc including priming coat with approved steel primer all complete.				
	9.48.1	Fixed to steel windows by welding.	1179	Kg		
	9.48.2	Fixed to openings/wooden frames with rawl plugs screws etc.	369	Kg		
21	9.100.	Providing and fixing alluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour or shade with necessary screws etc. Compete.				
	9.100.1	125 mm	52	No.		
22	9.97	Providing and fixing alluminium sliding tower bolts ISI marked,anodised(anodic coating not less than grade AC 10 as per IS:1868)transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.97.1	300x10mm	52	No.		
23	9.96	Providing and fixing alluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with nuts and screws etc.				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
		complete.				
	9.96.1	300x16mm	26	No.		
24	9.101	Providing and fixing alluminium hanging floor door stopper,ISI marked,anodised (anodic coating not less than grade AC 10 as per IS 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper.	15	No.		
		SECTION-VI (ALUMINIUM WORK)				
25	MR	Providing and fixing aluminium framed doors, sliding windows, ventilators and partitions with Aluminium sections, 4 mm thick plain glass, rubber, handles, door bolts, sliding tower bolts and locks, composite panel etc. complete.	98.52	Sqm		
		SECTION-VII (STAINLESS STEEL WORK)				
26	MR	Providing and fixing Jindal's stainless steel pipe of 18 gauge and of grade 304, ISI Marked railing 0.90 metre height etc. complete.	6.69	Sqm		
		SECTION-VIII (FINISHING WORK)				
27	13.46A	Finishing walls with premium Acrylic smooth exterior paint with silicone additives of required shade				
	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm.)	858.33	Sqm		
28	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications.				
	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr/10 sqm.	270.16	Sqm		
29	13.81A	Distempering with 1st quality acrylic distemper, having VOC (Volitle Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.81.2B	Two coats	1789.71	Sqm		
30	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	1789.71	Sqm		
31	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1789.71	Sqm		
32	13.81	Applying priming coat:				

Sl.No.	S.O.R.	DESCRIPTION	Qty.	Unit.	Rate	Amount
	13.81.2	with ready mixed alluminium primer of approved brand and manufacture on resinous wood and ply wood.	70.35	Sqm		
	13.81.4	With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanised iron/steel works (second coat)	136.96	Sqm		
33	13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade.				
	13.82.1	New steel work (Two or more coats.)	136.96	Sqm		
	13.82.2	New wood work (Two or more coats)	70.35	Sqm		
		SECTION- IX (MISCELLANEOUS WORK)				
34	10.18	Providing and fixing circular/ Hexagonal cast iron box for ceilling fan clamp 140mm internal dia,73mm height 5mm thick rim bottom and top lid of 1.5 mm thk. M.S.Sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners, clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	48	Each		
		SUB TOTAL				
35		Add 9% extra for external and internal PHE work, external and internal electrical works,roof treatment				
		TOTAL				
		ROUNDING OFF				
		Cost of construction per S.Ft.				