

REF:DAV/02050/2024			April 2nd, 2024			
ABSTRACT OF COST FOR CIVIL WORKS						
AT DAV PUBLIC SCHOOL, NAWADA (BLOCK-1, G+3)						
FOR FINANCIAL APPROVAL ONLY						
			Built-Up Area	42229.00	S.Ft	
BASED ON S.O.R. B.C.D.GOV.T. OF BIHAR EFFECTIVE FROM 01/01/2022/MR						
SL.NO	ITEM COD	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT
1	2.29	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m				
	2.29.1	All kinds of soil.	100sqm	13.43		
2	20.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).				
	20.2.4	500 mm dia piles	metre	3828.00		
3	20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.				
	20.6.1	Single pile upto 50 tonne capacity				
	20.6.1.1	Initial test	per test	1.000		
	20.6.1.2	Routine test	per test	7.000		
4	20.9	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-incharge.				
			per test	7.000		
		Note :- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority,keeping in view the quality control, type of soil strata & importance of the project.				

5	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 up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
	2.8.1	All kinds of soil	Cum	30.476		
6	2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	Cum	1201.59		
7	2.26	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.	Cum	722.95		
8	2.27	Extra for every additional lift of 1.5 m or part thereof in :				
	2.27.1	All kinds of soil	Cum	0.00		
9	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	805.77		
10	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work up to plinth level:				
	4.1.8	1:4:8 (1 Cement: 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	67.38		
	4.1.5	1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	76.89		
11	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for:				
	4.3.1	Foundations, footings, bases for columns	Sqm	80.59		
12	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc. up to floor five level, excluding the cost of centering, shuttering and finishing:				
	4.2.6	1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size)	cum	80.84		
13	Derived from 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 one brick flat soling well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm	107.23		

14	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana /Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate /retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement				
		content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	5.33.1	All works up to plinth level				
	5.33.1.1	Concrete of M-25 grade with minimum cement content of 330 kg/cum	cum	607.30		
	5.33.2	All work from plinth level upto floor V level				
	5.33.2.1	Concrete of M-25 grade with minimum cement content of 330 kg/cum	cum	1160.59		
15	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	831.54		
16	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.	Sqm	529.13		
	5.9.2	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm	80.46		
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	3333.69		
	5.9.4	Shelves (Cast in situ)	sqm	60.86		
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	3601.75		
	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	2391.10		
	5.9.7	Stairs, (excluding landings) except spiral-staircases.	sqm	180.12		
	5.9.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	sqm	512.41		
	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20cm wide	Metre	661.74		
	5.9.19	Weather shade, Chajjas, corbels, etc. including edges.	sqm	61.20		
17	5.11	Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and de centring at all levels over a height of 3.5 m ,for every additional height of 1 metre or part thereof (Plan area to be measured)				
	5.11.1	Suspended floors, roots, laning, beams and balconies (Plan area to be measured)	sqm	3948.19		
18	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia	Kg	47787.26		
	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	Kg	47787.26		

	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia	Kg	44373.88		
	5.22.7D	Thermo-Mechanically Treated bars TMTC-500-16mm dia	Kg	40960.51		
	5.22.7E	Thermo-Mechanically Treated bars TMTC-500-20mm dia	Kg	139948.39		
	5.22.7F	Thermo-Mechanically Treated bars TMTC-500-25mm dia	Kg	20480.25		
19	5.25	Providing and fixing in position copper plate as per design for expansion joints.	Kg	235.96		
20	5.26	Providing and filling in position, blown bitumen in expansion joints.	100mLx1cmWx1cmD	126.25		
21	5.29	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.				
	5.29.2	Aluminium fluted strips 3.15 mm thick				
	5.29.2.1	150mm wide.	metre	114.55		
22	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)	cum	20.09		
23	6.1A	Brick work with bricks of class designation 100A in superstructure above plinth level upto floor V Level				
	6.1.14A+6.3A	Cement mortar 1:6(1 cement:6 coarse sand)	cum	944.12		
24	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 send)	sqm	0.00		
25	6.18A	Half brick masonry with bricks of class designation 100A in superstructure above pinth level upto floor V level				
	6.18.4A+6.19A	Cement mortar 1:4 (1 cement: 4 coarse send)	sqm	301.43		
26	6.13A	Brick work 7cm thick with brick of class designation 100A cement mortar 1:3 (1 cement: 3 coarse sand) in super structure	sqm	28.85		
27	Derived from 6.21A	Extra for providing and placing in position 1 no. 6mm dia, MS bars at every fourth course of half brick masonry (with F.P.S bricks)	sqm	301.43		
28	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	9.21.1	35mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	304.26		
29	9.23	Extra for providing lipping with 2nd class teak wood battens 25mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	sqm	304.26		
30	9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.				
	9.9.3	Kiln seasoned selected planks of sheesham wood				
	9.9.3.2	30 mm thick	sqm	27.61		
31	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	Kg	2425.50		
	9.48.2	Fixed to openings / wooden frames with rawl plugs screws etc.	Kg	0.00		

32	9.96	Providing and fixing aluminium 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	Each	100.00		
	9.96.2	250x16mm	Each	0.00		
33	9.97	Providing and fixing aluminium tower bolts 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. complete:				
	9.97.1	300x10mm	Each	200.00		
	9.97.4	150x10mm	Each	210.00		
34	9.100	Providing and fixing aluminium handles anodised ISI Marked (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour or shade with necessary screws etc. complete:				
	9.100.1	125mm	Each	340.00		
35	9.101	Providing and fixing aluminium 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	Each	170.00		
36	9.103	Providing and fixing bright finished brass 100mm mortice latch and lock with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS:1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality).	Each	74.00		
37	21.1	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	43.92		
	21.1.2	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	21.96		

38	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With glass panes of 4.0mm thickness (weight not less than 10.0 kg/sqm)	Sqm	0.00		
	21.3.2	With glass panes of 5.50 mm thickness(weight not less than 13.75 kg/sqm)	Sqm	0.00		
	21.3.3	With float glass panes of 8 mm thickness(weight not less than 20 kg/sqm).	Sqm	6.22		
39	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors,embedding in floors as required and making good the same matching to the existing floor finishing 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.				
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	2.00		
40	21.8	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
	21.8.1	Upto 5mm depth and 5mm width.	Metre	7.88		
41	21.13	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	1.00		
42	21.16	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of Engineer-in-charge				
	21.16.1	Anodized (AC 15) aluminium	each	4.00		
43	10.12	Providing and fixing steel glazed doors, windows and ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm lugs 10 cm long with steel lugs embedded 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 raw) plugs and screws or with fixing dips or with bolts and nuts as required, including providing and fixing of glass panes with glazing dips and special metal-sash putty of approved make complete including applying a priming coat of approved steel primer; excluding the cost of metal beading and other fitting except necessary hinges or pivots as required.				
	10.12.1	Windows	sqm	242.55		
44	10.13	Extra for providing and fixing steel beading of approved shape and section with screws instead of glazing clips and met. Sash putty in steel doors, windows, Ventilators and composite units.				
	10.13.B	Steel windows	sqm	231.75		
	10.13.C	Steel ventilators	sqm	10.80		
45	10.29	Providing and fixing bright finished brass peg stays 300mm long of minimum weight 330 gms. to side hung steel windows with necessary welding and machine screws etc. complete.	Each	388.00		

46	10.15	Providing and fixing pressed steel door confirming IS code 351 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 50 x 25 mm or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel 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:				
	10.15.1	Profile B				
	10.15.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	1058.90		
47	10.18	Providing and fixing circular/hexagonal cast iron or M.S sheet box for ceiling fan clamp 140 mm internal dia, 73 mm height, 5 mm thick rim bottom and top lids, 1.5 mm thick 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.	Each	200.00		
48	10.32	Steel work welded in built up sections/framed work including cutting hoisting, rixing in position and applying a priming coat of approved steel primer using structural steel, etc. as required.				
	10.32.2	In gratings, frames, guard bar, ladders,	Kg	1536.48		
49	10.33	Providing and fixing hand rail by welding etc. to steel ladder railings & staircases railing including applying a priming coat of approved steel primer				
	10.33.1	MS tube (medium) 40mm nominal bore	Kg	308.15		
50	11.41	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufacturer} with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc., complete.Flooring (SOMANY / KAJARIA / RAK / JOHNSON) double charged (Soluble Salt tiles shall not be permitted)				
	11.41.2	Size of Tile 60x60 cm	sqm	198.85		
51	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.(SOMANY / KAJARIA / RAK / JOHNSON) double charged (Soluble Salt tiles shall not be permitted)				
	11.46.2	Size of Tile 600 x 600 mm.	sqm	14.00		
52	11.38	Providing and laying Ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS:15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brow 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	sqm	377.16		

53	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 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 jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	1318.85		
54	8.2	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 : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite of any colour and shade				
	8.2.2.2	Area of slab over 0.50 sqm	sqm	49.20		
55	8.4	Extra for fixing marble/granite stone over and above coresponding basic ite, in facia and drops of width upto 150 mm with expoxy resin based (Araldite or equivalent) adhesive including cleaning etc. complete.	m	65.60		
56	8.5	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform. Vanity counters and similar location in marble/stone work including necessary holes for pillar taps etc. including rubing and polishing of cut edges etc. complete.	each	88.00		
57	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. Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand) / 1:4 (1 cement: 4 coarse sand)				
	11.26.1	20 to 25mm thick	sqm	2598.89		
58	11.27	Kota stone slab 20 mm thick in risers of steps skirting. Dado & 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 slab including rubbing and polishing complete.	sqm	325.38		
59	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 and direction of E/I.	sqm	899.04		
60	12.39	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate of 20mm nominal size) over P.V.C sheet 1mx1mx400 micron, finished with 12mm cement plaster 1:3(1 cement: 3 coarse sand) and a coat of neat cement rounding the edge sand making and finishing the outlet complete.	Each	15.00		
61	13.11	12mm cement plaster of mix:				
	13.11.2	1:4(1 cement :4 coarse sand)	sqm	1692.08		
	13.11.4	1:6(1 cement: 6 coarse sand)	sqm	3564.69		
62	13.12	15mm cement plaster on the rough side of single or half brick wall of mix:				
	13.12.4	1:6(1 cement: 6 course sand)	sqm	3564.69		
63	13.13	20mm cement plaster of mix:				
	13.13.4	1:6(1 cement: 6 course sand)	sqm	3111.13		

64	13.24	6mm cement plaster to ceiling of mix:				
	13.24.2	1:4(1 cement: 4 coarse sand)	sqm	3214.26		
65	13.37	Extra for plastering exterior walls of height more than 10m from ground level for every additional height of 3 m or part there of	sqm	2619.09		
66	13.77	Distempering with oil bound acrylic distemper of approved brand and manufacture to give an even shade .				
	13.77.2	New work (two or more coats) over and including priming coat with cement primer	sqm	697.51		
67	13.70	White washing with lime to give an ever shade				
	13.70.1	New work (three or more coats)	sqm	10344.38		
68	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	sqm	697.51		
69	13.46	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)	sqm	4104.95		
70	13.81	Applying priming coat:				
	13.81.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	921.64		
71	13.94	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	13.94.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	1505.76		
72	13.116	Forming groove of uniform size from 12x12mm and upto 25x15mm in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	Metre	615.36		
73	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions.(ii) 11 nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand)mixed with water proofing compound in recommended proportion, (iii) Illrd course of applying blown or/residual bitumen applied hot at 1.7 kg. per sqm of area, (iv) Ivth course of 400 micron thick PVC sheet.(Overlaps at joints of PVC shet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	sqm	483.98		

74	22.8	Providing and laying integral cement based water proofing treatment including prepatation of surface as required for treatment of roofs, balconies , terraces etc, consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, (b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming				
		to IS 2545 to reured slope and treating similiary the adjoining walls upto 300 mm height including rounding of junctions, or walls ad slabs. (c) After two days of proper curing applying a secoung coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test, All above operations to be				
		done in order and as directed and specified by the Engineer-in-Charge.				
	22.8.1	With average thickness of 120mm and minimum thickness at khurras point to be 65.	Sqm	916.91		
75	MR	Providing and fixing at all heights and depths between beam , coloumn and foundation 50 MM thick DURABOARD HD-100 conforming to BIS 1838 Part 3 including cost and conveyance of all materials, cutting and placing to the required size, labour charges, sundries, wastage etc. at all levels complete as per drawings and as direction and satisfaction of Engineer-in-charge. DURAboard HD 100 will become one side of the shuttering while the expansion joint is being created.	Sqm	52.741		
		Total				
		Add for PHE Works				
		Add for Electrical Works				
		Grnad Total				
		Rate per S.Ft.				
		Note:-				
	1)	Rate inclusive of GST				
	2)	Carriage cost not included in the estimate as per instruction of DAV CMC, Delhi				