



हिन्दुस्तान

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अपना मुजफ्फरपुर

मुजफ्फरपुर, गुरुवार, 4 सितंबर 2025

05



DAV PUBLIC SCHOOL

DARBHANGA ROAD, BAKHARI CHOWK, MUZAFFARPUR
PHONE NO: 7004539175, 9263182197

Tender Notice

Sl. No.	Particulars	Area & Specification of work (In sq.ft.)
1.	Civil & Electrical Works in respect of installation of 10-Passenger Lifts (Junior Building Block-B) & (Newly Constructed Block of the school).	Details available with the Principal of the school as well as on the school website: www.davpsmuzaffarpur.com
2.	Time of Completion of work	120 days
3.	Date of Tender Notification	04-09-2025
4.	Last date for receipt of Bids	19-09-2025
5.	Name and address of office inviting Tender	DAV Public School, Darbhanga Road, Bakhari Chowk Muzaffarpur (Bihar)
6.	e-mail id	davmuzaffarpur@gmail.com

Following points need attention

1. The work shall consist of all civil & electrical items necessary to fully complete the said work
2. Only the quality materials (Branded company) and workmanship will be acceptable.
3. Payment will be released after completion of work and verification by architect.
4. Quoted rates should be inclusive of all taxes/ GST, no extra charges will be paid.
5. Sealed quotations are invited through speed post.

(R.C.Sharma)
Principal

Ravi Kapoor B.Arch, Chd, M.Arch, IIT-KGP, M.Arch & U.D Washington Univ. USA

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Tel: 0612-2267175, Fax: 0612-2275624

Email: contact@kapoors.biz

REF: DAV/02223/2025					Date:-	
ABSTRACT OF COST FOR LIFT (10 PASSENGER)-JUNIOR BLOCK						
DAV PUBLIC SCHOOL, BAKHRI, MUZAFFARPUR						
BASED ON S.O.R. B.C.D.GOV.T. OF BIHAR EFFECTIVE FROM 01/01/2022/MR						
SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
		SUBHEAD-A (CIVIL WORKS)				
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	0.25		
2	2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well es 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	14.80		
3	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		
4	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	14.796		
5	2.25(A)	Excavating, supplying and filling of local earth (including royalty but excluding cairriage cost) by mechanical transport upto a lead of 3km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete. If local earth is available at more than 3 km lead the actual lead must be approved by compitent authority. cairraiage of material will be paid seperately and calculated after deducting initial lead.	Cum	0.000		
6	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.414		
7	20.3	Boring,with hydraulic piling rigs with power units, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, 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 the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
i	20.3.1	300 mm dia piles	metre	48.000		
8	20.4.1	Extra over item No. 23.3 for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid). 300mm dia piles.	each	12.000		
9	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 agregate 40mm nominal size)	cum	1.508		
10	4.3	Centering and shuttering including strutting, proping etc. and removal of form work for:				
	4.3.1	Foundations, footings, bases for columns	Sqm	1.41		

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
11	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Sqm	3.16		
12	4.12	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.	per 50 kg cement	1.01		
	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.				
13	5.33.1.1	upto plinth -Concrete of M-25 grade with minimum cement content of 330 kg/cum	cum	14.51		
14	5.33.2.1	Above Plinth Concrete of M-25 grade with minimum cement content of 330 kg/cum	cum	17.81		
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for:				
15	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	11.46		
16	5.9.2	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm	39.22		
17	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	33.13		
18	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	52.50		
19	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	98.09		
20	5.9.16	Edges of slabs and breaks in floors and walls.				
	5.9.16.1	Under 20cm wide	Metre	69.50		
	5.22	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
21	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia	Kg	499.49		
22	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	Kg	249.75		
23	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia	Kg	1498.48		
24	5.22.7D	Thermo-Mechanically Treated bars TMTC-500-16mm dia	Kg	1248.74		
25	5.22.7E	Thermo-Mechanically Treated bars TMT Fe-500-20mm dia	Kg	998.99		
26	5.22.7F	Thermo-Mechanically Treated bars TMT Fe-500-25mm dia	Kg	499.49		
27	6.1A	Brick work with bricks of class designation 100A in foundations and plinth in				
	6.1.12A	Cement mortar 1:4(1 cement:4 coarse sand)	cum	4.90		
28	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in superstructure above plinth level upto floor V Level				
	6.1.14C +6.3C	Cement mortar 1:6(1 cement:6 coarse sand)	cum	30.34		
29	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in superstructure above plinth and upto floor V level.				
	6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	sqm	5.00		

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
30	6.21A	Extra for providing and placing in position 2 nos. 6mm dia, MS bars at every third course of half brick masonry (with F.P.S bricks)	sqm	5.00		
31	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.				
	10.32.1	In stringers, treads landings etc. of stair cases including use of required plates wherever required all complete.	Kg	110.00		
32	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners.all necessary fittings completeincluding applying a priming coat of approved steel primer.				
	10.5.1	Using M.S. angle 40x40x6 mm for diagonal braces	Sqm	0.00		
33	11.39	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours such as white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc.complete	sqm	23.95		
34	8.9.1.2	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete. 8 mm thick Granite of any colour and shade.	sqm	15.18		
35	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	12.32		
36	12.38.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement:2 coarse sand:4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 cement::3 coarse sand)as per standard design In 75x75 mm deep chase.	rmt.	0.00		
37	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	1.00		
38	13.11	12mm cement plaster of mix:				
	13.11.4	1:6(1 cement: 6 coarse sand)	sqm	40.02		
39	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 coarse sand)	sqm	40.02		
40	13.13	20mm cement plaster of mix:				
	13.13.2	1:4(1 cement: 4 coarse sand)	sqm	154.99		
41	13.24	6mm cement plaster to ceiling of mix:				
	13.24.2	1:4(1 cement: 4 coarse sand)	sqm	19.32		
42	13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
	13.92.1	Two or more coats on new work	sqm	99.36		
43	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	254.35		
44	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	sqm	254.35		

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
45	13.45.1	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/ 10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm	sqm	154.99		
46	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	11.00		
47	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 roprietary 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 froofing compound conforming to IS 2545 to reuires 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 specifed by the Engineer-in-Charge.				
	22.8.1	With average thickness of 120mm and minimum thickness at khurras point to be 65.	sqm	0.00		
48	12.52	Grading roof for water proofing treatment with				
	12.52.2	Cement concrete 1:2:4(1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size	cum	0.00		
49	MR /as per quotation	Hillti Work for anchoring rods from existing floor to link connection of the lift slab	Nos	32.00		
50	MR	S/I/T/C of 1 number high quality elevator (Make- OTIS / Thyssenkrupp / KONE/) all complete, all complete in all respects, as per the following specifications:-				

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
		PRODUCT : GeN2-Nova_MRL-1MPS DETAILS : GeN2-Nova_MRL-1MPS CAPACITY (kgs) : 680 Kg, 10 persons. SPEED (mps) : 1 mps RISE (m) : 12.9 m STOPS : 4 Stops With (all opening on the same side) CONTROLLER TYPE : ACD5-MRL DRIVE : VF Regenerative (Closed Loop) POWER SUPPLY : 400/415 Volts (3 Phase AC) OPERATION : Full collective operation CAR GROUP : One car (simplex) MACHINE : PM Gearless (Located in shaft on top of guide rails) TRACTION MEDIA : Flat Coated Steel Belt CAR FINISH : • Rear Mid Panel = GLASS PANEL • Rear Corner Panels = GLASS PANEL • Side Mid Panels = Stainless Steel #4(Hairline) • Side Corner Panels = Stainless Steel #4(Hairline) • Front Panels = Stainless Steel #4(Hairline) FALSE CEILING TYPE : CD-42 FLASE CEILING FINISH : Stainless Steel Mirror Finish VENTILLATION : Cross flow fan HAND RAILS : Stainless Steel Mirror Finish Handrails on rear car panels				NOT REQUIRED
		CAR DIMENSIONS (W x D x H - mm) : 1100 mm W x 1600 mm D x 2200 mm D CAR & HOISTWAY DOOR TYPE : Central opening (CO) doors DOOR OPENING (W x H - mm) : 800 mm W x 2000 mm H DOOR OPERATOR : DC Door Operator COP : COP for stops <= 12 (950mm) in Stainless Steel #4(Hairline) CAR POSITION INDICATOR : Monochrome LCD-Blue Background & White font Dot matrix (LED) Scrolling Display HALL FIXTURES : O2000 Flat Type Fixture , HALL FIXTURE FACE PLATE : Stainless Steel #4(Hairline) HALL BUTTON ARRANGEMENT : LCD Monochrome type STANDARD FEATURES : Anti-nuisance Car Call Protection Independent Service (for Duplex only) Overload Device Nudging Emergency Car Light Unit Infrared Curtain Door Protection Door Time Protection Emergency Alarm Button Extra Door Time of Lobby & Parking Door Open/Close Button Manual Rescue Operation Belt Inspection Drive Auto Fan Cut Off OPTIONS INCLUDED : Grounding Switch, Automatic Rescue operation, Voice Synthesizer,				NOT REQUIRED

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT	
		SUBTOTAL-A				3175593.41	
		SUBHEAD-B (ELECTRICAL WORKS)					
		WIRING					
51	1.3.3	Wiring for light point/ fan point/ exhaust fan point / call bell point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch , modular plate suitable size G.I. box etc as required. Group C	Point	6.00			
52	1.7	Wiring for submain with circuit /light plug point wiring/submain along with earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in recessed medium class PVC conduit as required.					
	1.7.2	2x2.5 sq.mm +1x2.5 sq mm earth wire	Meter	40.00			
	1.7.12	4x10 sq.mm +1x6 sq mm earth wire	Meter	60.00			
53	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet & 6A modular type switch connection etc. as required.	Point	1.00			
54	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 5/6 & 15/ 16 amps modular socket outlet & 15/16A modular type switch connection etc. as required.	Point	1.00			
55	1.26	Supplying and fixing modular blanking plate on the existing modular plate & metal box excluding modular plate, etc. as required.	Each	2.00			
		D.B.s					
56	2.8	Supplying and fixing following way horizontal type single pole and Neutral sheet steel M.C.B. Distribution board, 240 Volts, on surface/ recess, complete with tinned copper busbar, neutral bus bar, earth bar, din bar, interconnection, powder painted including earthing etc. as required (But without MCB/ RCCB / Isolator)					
	2.8.3	2+6 Way single door	Each	2.00			
57	2.12	Supplying and fixing of following rating C series MCB suitable for inductive and other loads of following poles in the existing MCB DB complete with connections ,testing and commissioning etc. as required .					
	2.12.1	6 Amp. To 32 Amp. SP MCB 240 Volt	Each	1.00			
	2.12.7	40/63 Amp TP MCB 415 Volt	Each	2.00			
		SUPPLY & INSTALLATION OF FIXTURES					
58	5.8.3	Supplying and fixing surface mounted 18 watt LED downlighter with minimum efficacy 100lm/w in pressure die cast aluminium housing and integrated electronic driver etc. directly on ceiling including connection with 1.5 sq mm FRLS PVC insulated copper conductor cable etc as required.	Each	6.00			
59	1.34	Supplying and fixing batten / angle holder including connections etc. as required.	Each	1.00			
60		Supplying and fixing following types lamp in existing electrical fitting/ fixture etc as required.					
	6.1.6	15 watt LED lamp	Each	1.00			
		SUBTOTAL-B					
		GRAND TOTAL(A+B)					

Boq.

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REF: DAV/02221/2025					Date:-	
ABSTRACT OF COST FOR LIFT (10 PASSENGER)-NEW BLOCK						
DAV PUBLIC SCHOOL, BAKHRI, MUZAFFARPUR						
BASED ON S.O.R. B.C.D.GOV.T. OF BIHAR EFFECTIVE FROM 01/01/2022/MR						
SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
SUBHEAD-A (CIVIL WORKS)						
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	0.25		
2	2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well es 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	14.80		
3	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		
4	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	14.796		
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6	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.414		
7	20.3	Boring,with hydraulic piling rigs with power units, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M 25 cement concrete, 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 the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
i	20.3.1	300 mm dia piles	metre	48.000		
8	20.4.1	Extra over item No. 23.3 for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid). 300mm dia piles.	each	12.000		
9	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 agregate 40mm nominal size)	cum	1.508		
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	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.				
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24	5.22.7D	Thermo-Mechanically Treated bars TMTFe-500-16mm dia	Kg	1248.74		
25	5.22.7E	Thermo-Mechanically Treated bars TMT Fe-500-20mm dia	Kg	998.99		
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	10.32.1	In stringers, treads landings etc. of stair cases including use of required plates wherever required all complete.	Kg	110.00		
32	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3mm MS gusset plates at the junction and corners.all necessary fittings completeincluding applying a priming coat of approved steel primer.				
	10.5.1	Using M.S. angle 40x40x6 mm for diagonal braces	Sqm	0.00		
33	11.39	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent make in colours such as white , Ivory , Grey , Fume , Red , Brown , laid on 20 mm thick cement motar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc.complete	sqm	23.95		
34	8.9.1.2	Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete. 8 mm thick Granite of any colour and shade.	sqm	15.18		
35	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	12.32		
36	12.38.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement:2 coarse sand:4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 cement::3 coarse sand)as per standard design In 75x75 mm deep chase.	rmt.	0.00		
37	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	1.00		
38	13.11	12mm cement plaster of mix:				
	13.11.4	1:6(1 cement: 6 coarse sand)	sqm	40.02		
39	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 coarse sand)	sqm	40.02		
40	13.13	20mm cement plaster of mix:				
	13.13.2	1:4(1 cement: 4 coarse sand)	sqm	154.99		
41	13.24	6mm cement plaster to ceiling of mix:				
	13.24.2	1:4(1 cement: 4 coarse sand)	sqm	19.32		
42	13.92	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:				
	13.92.1	Two or more coats on new work	sqm	99.36		
43	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	254.35		
44	13.78	Applying one coat of cement primer of approved brand and manufacture on wall surface:				
	13.78.1	Cement primer	sqm	254.35		

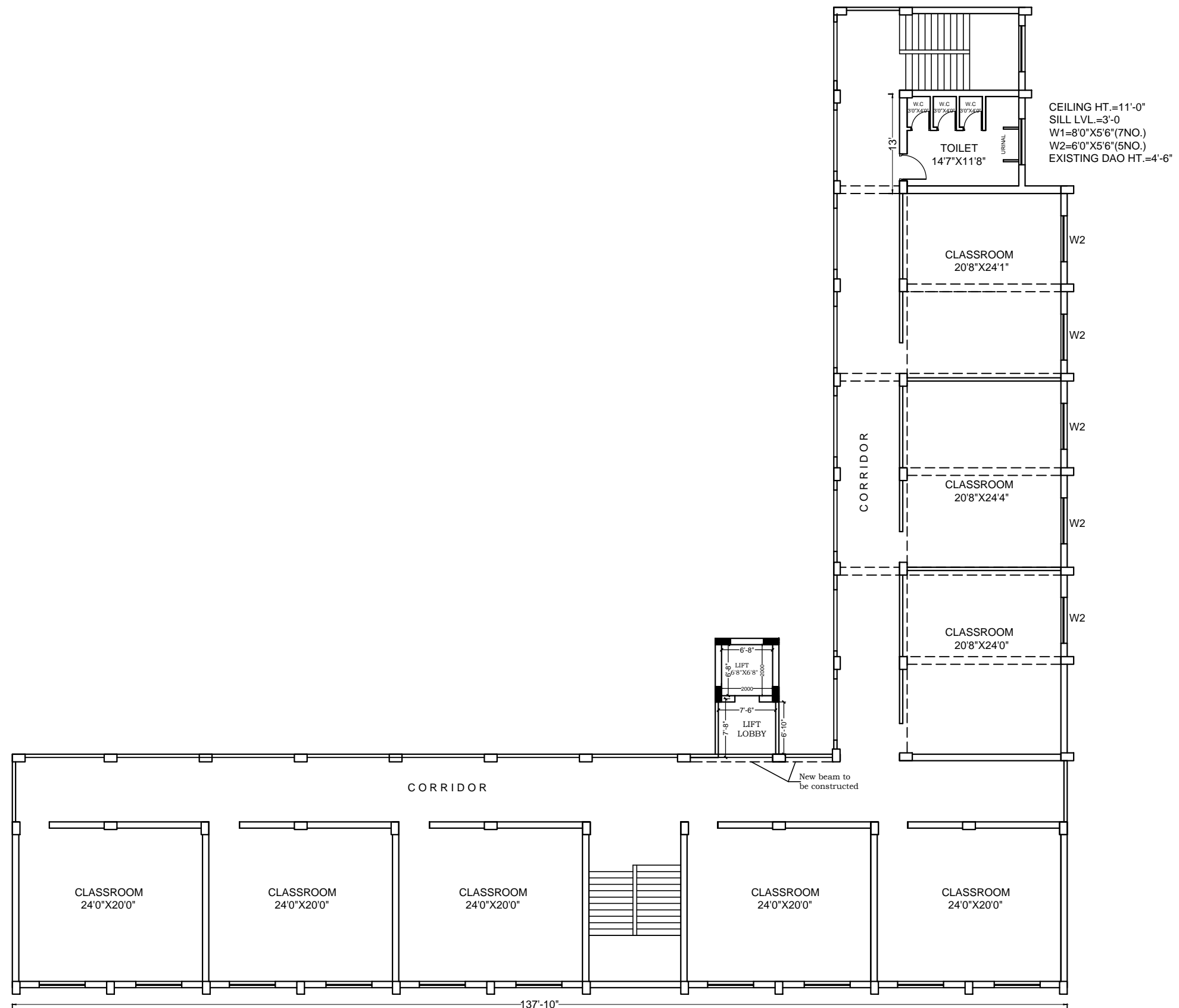
SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
45	13.45.1	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/ 10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm	sqm	154.99		
46	13.94	Painting with synthetic 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	11.00		
47	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 roprietary 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 froofing compound conforming to IS 2545 to reuired slope and treating similary 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	0.00		
48	12.52	Grading roof for water proofing treatment with				
	12.52.2	Cement concrete 1:2:4(1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size	cum	0.00		
49	MR/as per quotation	Hillti Work for anchoring rods from existing floor to link connection of the lift slab	Nos	32.00		
50	MR	S/I/T/C of 1 number high quality elevator (Make- OTIS / Thyssenkrupp / KONE/) all complete, all complete in all respects, as per the following specifications:-				

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
		PRODUCT : GeN2-Nova_MRL-1MPS DETAILS : GeN2-Nova_MRL-1MPS CAPACITY (kgs) : 680 Kg, 10 persons. SPEED (mps) : 1 mps RISE (m) : 12.9 m STOPS : 4 Stops With (all opening on the same side) CONTROLLER TYPE : ACD5-MRL DRIVE : VF Regenerative (Closed Loop) POWER SUPPLY : 400/415 Volts (3 Phase AC) OPERATION : Full collective operation CAR GROUP : One car (simplex) MACHINE : PM Gearless (Located in shaft on top of guide rails) TRACTION MEDIA : Flat Coated Steel Belt CAR FINISH : • Rear Mid Panel = GLASS PANEL • Rear Corner Panels = GLASS PANEL • Side Mid Panels = Stainless Steel #4(Hairline) • Side Corner Panels = Stainless Steel #4(Hairline) • Front Panels = Stainless Steel #4(Hairline) FALSE CEILING TYPE : CD-42 FLASE CEILING FINISH : Stainless Steel Mirror Finish VENTILLATION : Cross flow fan HAND RAILS : Stainless Steel Mirror Finish Handrails on rear car panels				
		CAR DIMENSIONS (W x D x H - mm) : 1100 mm W x 1600 mm D x 2200 mm D CAR & HOISTWAY DOOR TYPE : Central opening (CO) doors DOOR OPENING (W x H - mm) : 800 mm W x 2000 mm H DOOR OPERATOR : DC Door Operator COP : COP for stops <= 12 (950mm) in Stainless Steel #4(Hairline) CAR POSITION INDICATOR : Monochrome LCD-Blue Background & White font Dot matrix (LED) Scrolling Display HALL FIXTURES : O2000 Flat Type Fixture , HALL FIXTURE FACE PLATE : Stainless Steel #4(Hairline) HALL BUTTON ARRANGEMENT : LCD Monochrome type STANDARD FEATURES : Anti-nuisance Car Call Protection Independent Service (for Duplex only) Overload Device Nudging Emergency Car Light Unit Infrared Curtain Door Protection Door Time Protection Emergency Alarm Button Extra Door Time of Lobby & Parking Door Open/Close Button Manual Rescue Operation Belt Inspection Drive Auto Fan Cut Off OPTIONS INCLUDED : Grounding Switch, Automatic Rescue operation, Voice Synthesizer,				

NOT REQUIRED

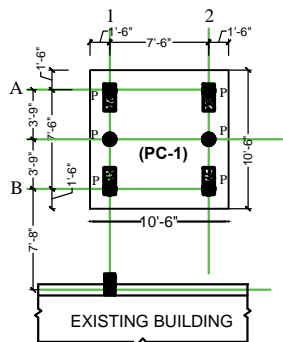
NOT REQUIRED

SL.NO	ITEM NO.	DESCRIPTION	UNIT	Qty.	RATE	AMOUNT
		SUBTOTAL-A				
		SUBHEAD-B (ELECTRICAL WORKS)				
		WIRING				
51	1.3.3	Wiring for light point/ fan point/ exhaust fan point / call bell point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch , modular plate suitable size G.I. box etc as required. Group C	Point	6.00		
52	1.7	Wiring for submain with circuit /light plug point wiring/submain along with earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in recessed medium class PVC conduit as required.				
	1.7.2	2x2.5 sq.mm +1x2.5 sq mm earth wire	Meter	40.00		
	1.7.12	4x10 sq.mm +1x6 sq mm earth wire	Meter	60.00		
53	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 amps modular socket outlet & 6A modular type switch connection etc. as required.	Point	1.00		
54	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 5/6 & 15/ 16 amps modular socket outlet & 15/16A modular type switch connection etc. as required.	Point	1.00		
55	1.26	Supplying and fixing modular blanking plate on the existing modular plate & metal box excluding modular plate, etc. as required.	Each	2.00		
		D.B.s				
56	2.8	Supplying and fixing following way horizontal type single pole and Neutral sheet steel M.C.B. Distribution board, 240 Volts,on surface/ recess, complete with tinned copper busbar, neutral bus bar, earth bar, din bar, interconnection, powder painted including earthing etc. as required (But without MCB/ RCCB / Isolator)				
	2.8.3	2+6 Way single door	Each	2.00		
57	2.12	Supplying and fixing of following rating C series MCB suitable for inductive and other loads of following poles in the existing MCB DB complete with connections ,testing and commissioning etc. as required .				
	2.12.1	6 Amp. To 32 Amp. SP MCB 240 Volt	Each	1.00		
	2.12.7	40/63 Amp TP MCB 415 Volt	Each	2.00		
		SUPPLY & INSTALLATION OF FIXTURES				
58	5.8.3	Supplying and fixing surface mounted 18 watt LED downlighter with minimum efficacy 100lm/w in pressure die cast aluminium housing and integrated electronic driver etc. directly on ceiling including connection with 1.5 sq mm FRLS PVC insulated copper conductor cable etc as required.	Each	6.00		
59	1.34	Supplying and fixing batten / angle holder including connections etc. as required.	Each	1.00		
60		Supplying and fixing following types lamp in existing electrical fitting/ fixture etc as required.				
	6.1.6	15 watt LED lamp	Each	1.00		
		SUBTOTAL-B				
		GRAND TOTAL(A+B)				

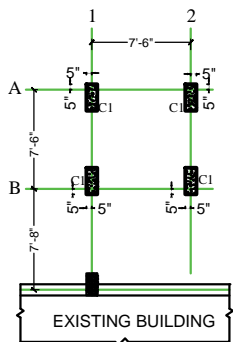


1ST,2ND AND 3RD FLOOR PLAN

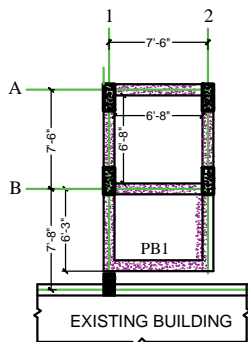
PROJECT- DAV PUBLIC SCHOOL AT -BAKHRI MUZAFFARPUR	DATE- 26-07-2025	ARCHITECTS- KAPOOR AND ASSOCIATES ARCHITECTS,ENGINEERS.COMPUTER DIED DESIGN 100 B PATLIPUTRA COLONY OPPOSITE- P&M MALL,PATNA-13, NEAR NOTRE DAME ACADEMY
DRWG. TITLE 1ST, 2ND AND 3RD FLOOR PLAN	SCALE-	



FOUNDATION LAYOUT PLAN



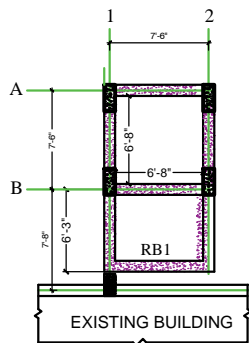
COLUMN LAYOUT PLAN



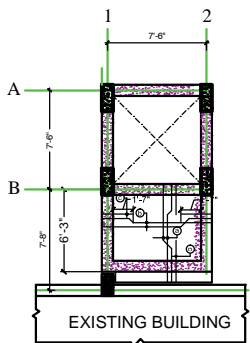
PLINTH BEAM LAYOUT PLAN

DETAILS PILE						
TYPE OF PILE	PILE LENGTH	PILE DIA	BULB DIA	NO OF BULBS	REINFORCEMENT	
					MAIN	RINGS
P	8 M	300	7500	2	6-12ØTor	#8@150C/C

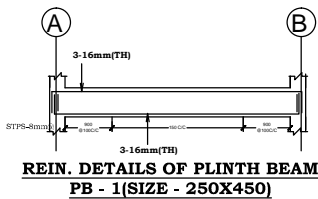
DETAILS OF PILE CAP					
TYPE OF CAP	PILE CAP THICKNESS (D)	SIZE OF CAP	REINFORCEMENT		
			BOTTOM (G) Along longer direction	BOTTOM (K) Along shorter direction	TOP (a)
PC-1	600	3650x3000	#16@100C/C	#16@100C/C	#12@100C/C BOTH



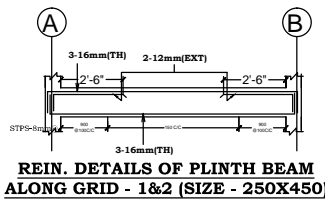
ROOF BEAM LAYOUT PLAN



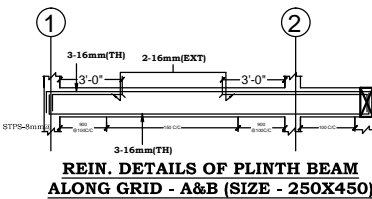
ROOF SLAB LAYOUT PLAN



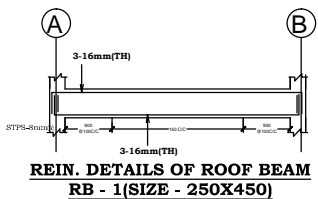
REIN. DETAILS OF PLINTH BEAM PB - 1(SIZE - 250X450)



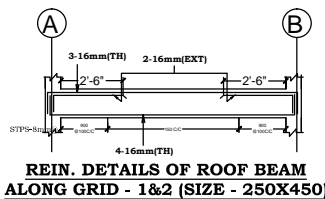
REIN. DETAILS OF PLINTH BEAM ALONG GRID - 1&2 (SIZE - 250X450)



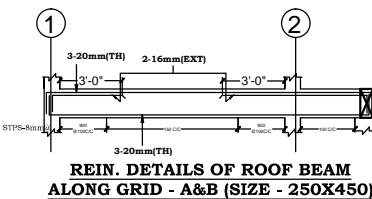
REIN. DETAILS OF PLINTH BEAM ALONG GRID - A&B (SIZE - 250X450)



REIN. DETAILS OF ROOF BEAM RB - 1(SIZE - 250X450)



REIN. DETAILS OF ROOF BEAM ALONG GRID - 1&2 (SIZE - 250X450)

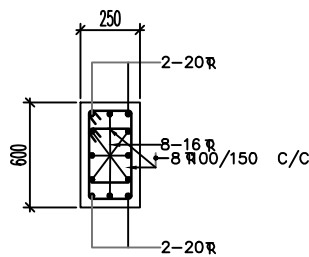


REIN. DETAILS OF ROOF BEAM ALONG GRID - A&B (SIZE - 250X450)

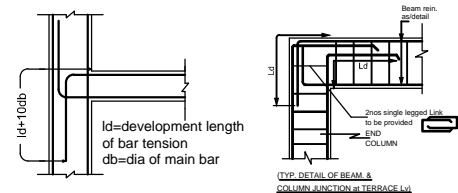
(f)	10 Ø @ 300 c/c (extra top)
(e)	10 Ø @ 150 c/c
(d)	10 Ø @ 150 c/c
(c)	8 Ø @ 300 c/c (extra top)
(b)	8 Ø @ 150 c/c
(a)	8 Ø @ 150 c/c
Symbol	Spacing

LEGEND

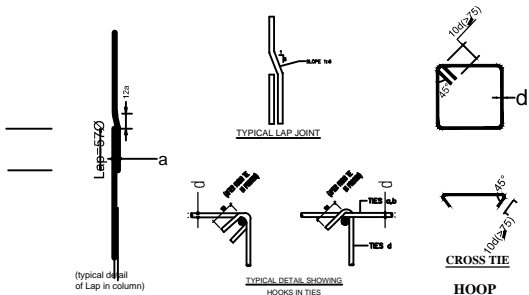
ALL SLAB THICKNESS 125



COLUMN (C1) 250x600



TYP. DETAIL OF BEAM & COLUMN JUNCTION AT TERRACE LEVEL

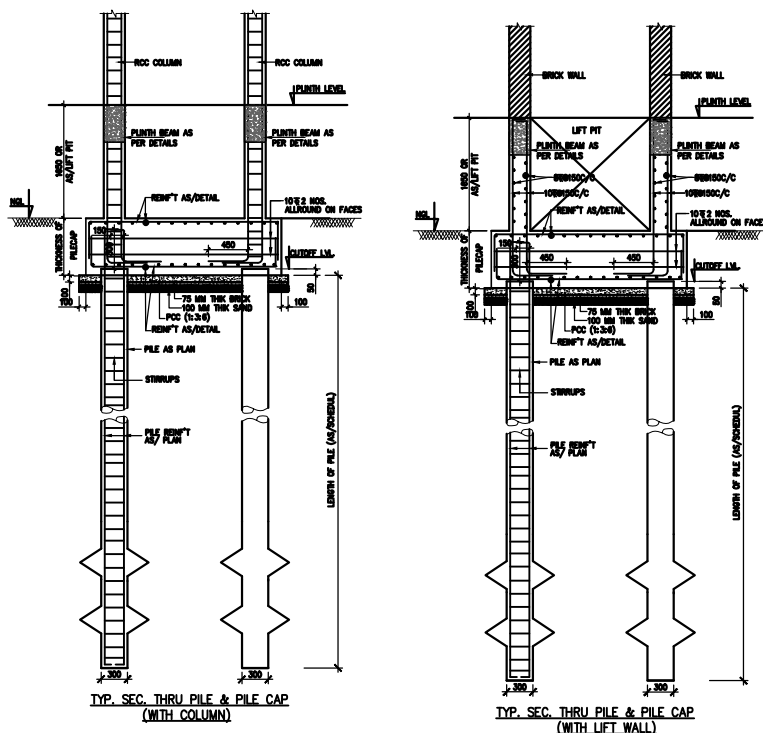


TYPICAL LAP JOINT

TYPICAL DETAIL SHOWING JOINTS IN TIE

CROSS TIE

HOOP



TYP. SEC. THRU PILE & PILE CAP (WITH COLUMN)

TYP. SEC. THRU PILE & PILE CAP (WITH LIFT WALL)

NOTES :-

- ALL DIMENSIONS ARE IN MM (EXCEPT MENTIONED. FOLLOW WRITTEN DIMENSIONS ONLY).
- NOTES AND INSTRUCTIONS INDICATED BELOW SHALL BE FOLLOWED WITH DUE RESPONSIBILITY BY ENGINEER-IN-CHARGE DURING EXECUTION OF THE PROJECT.
- THE ENGINEER-IN-CHARGE SHALL STUDY IN DEPTH THE ARCHITECTURAL / STRUCTURAL DRAWINGS OF THE BUILDING / STRUCTURE ENCLOSED. BEFORE EXECUTION AND AMBIGUITY IF ANY NOTICED BY HIM SHALL BE REPORTED TO HEAD QUARTER / CONSULTANT. FOR NECESSARY ACTION.
- ONLY STEEL SHUTTERING / CENTERING SHALL BE USED AT WORK SITE FOR CONSTRUCTION OF R.C.C. FRAMED BUILDING.
- QUALITY AND MIX PROPORTION OF MATERIALS TO BE USED IN CONCRETING I.e. WATER / CEMENT / SAND / CHIPS SHALL BE STRICTLY AS PER DESIGN MIX REPORT.
- THE CRUSHING STRENGTH OF CUBES PREPARED WITH CONCRETE MIX AT WORK SITE SHALL CONFORM THE ACCEPTANCE CRITERIA AS MENTIONED IN I.S.456:2000.
- COVER BLOCK WITH PROPER SIZE & SPECIFIED STRENGTH SHALL BE PROVIDED IN SLAB / BEAM / COLUMN / FOUNDATION BEFORE R.C.C. CASTING @ SPACE NOT EXCEEDING ONE METER C/C.
- COVER BLOCK SHALL BE PROPERLY TIED WITH THE REINFORCEMENT FOR FIXITY DURING VIBRATION.
- IN CASE OF PILE FOUNDATION IT IS ESSENTIAL TO HAVE ACTUAL PILE LOAD TEST REPORT ALONG WITH PILE CAPACITY BASED ON SOIL PARAMETERS. SO IT IS INSTRUCTED TO ALL ENGINEER-IN-CHARGE TO GET THE ACTUAL PILE LOAD TEST REPORT BEFORE EXECUTION AND REPORT TO H.Q. / CONSULTANT FOR REVIEW AND FINAL CONCLUSION.
- IN CASE OF PILE FOUNDATION HAVING HIGH WATER TABLE USE BENTONITE SOLUTION, CASING AND QUICK SETTING CEMENT, THE ENGINEER-IN-CHARGE SHALL TAKE FINAL DECISION AS PER ACTUAL SITE CONDITION.
- ALL CONCRETE SHALL BE MACHINE MIXED AND PROPERLY COMPACTED BY VIBRATOR.
- NOMINAL COVER (I.e. CLEAR CONCRETE COVER TO ALL REINFORCEMENTS INCLUDING LINKS) FOR FOUNDATION = 50, PILE CAP = 75, COLUMN = 40, BEAM = 30 AND SLAB = 25 MM SHALL BE PROVIDED.
- PROPER CURING OF R.C.C. SLAB / COLUMN / FOUNDATION / B/W PLASTER ETC. SHALL BE ENSURED.
- BEFORE PLACING OF REINFORCEMENT POLYTHENE SHEET SHALL BE SPREAD OVER SHUTTERING TO PREVENT THE ESCAPE CEMENT SLURRY FROM CONCRETE MIX.
- LAP SPICE - NOT MORE THAN 50% OF AREA OF STEEL (LONG) IN COLUMN BARS SHALL BE SPICED AT ANY ONE SECTION. LAPPING OR WELDING OF REINFORCEMENT SHALL BE STAGGERED. IT SHALL BE WITHIN THE LAPPING ZONE AS SHOWN IN THE DRAWING THE LAP LENGTH SHALL NOT BE LESS THAN DEVELOPMENT LENGTH OF ROD (50 TIMES DIA OF BAR).
- LAP LENGTH > L = L = EFFECTIVE DEVELOPMENT LENGTH CONSIDERING TENSION - 50X BAR DIA.
- BEFORE R.C.C. CASTING OF BEAMS/SLAB FORM WORK SHALL BE CHECKED PROPERLY TO AVOID ANY DEFLECTION.
- REMOVAL OF FORM WORK SHALL BE AS PER STRIPPING TIME PRESCRIBED VIDE CL. 11.3 OF I.S. 456-2000 WHICH SHALL BE CHECKED BY ENGINEER-IN-CHARGE.
- NECESSARY ARRANGEMENTS SHALL BE MADE FOR PLINTH PROTECTION OF BUILDING AT LEVEL DECIDED BY ENGINEER-IN-CHARGE TO AVOID WATER LOGGING AROUND BUILDING. THE WIDTH SHALL BE DECIDED AS PER ACTUAL SITE CONDITION BY ENGINEER-IN-CHARGE.
- WATER PROOFING COMPOUND SHALL BE USED IN CASTING OF SUNKEN SLAB & TERRACE FLOOR SLAB TO PREVENT SEEPAGE.
- ALL DESIGN MIX CONCRETE OF GRADE M-25 HAVING MINIMUM CEMENT CONTENT 300 kg/cum, Max. W/C RATIO = 0.5 FOR COARSE AGGREGATE 20 MM SIZE.
- # INDICATES HYSD BARS OF GRADE Fe 500.
- ALL CONCRETE SHALL BE MACHINE MIXED AND VIBRATED.
- SIDE FACE REINFORCEMENT IN BEAMS = 0.1% OF WEB AREA EQUALLY DISTRIBUTED ON BOTH FACES WHERE DEPTH OF WEB > 750 FOR STRAIGHT BEAMS IN FLEXURE ONLY @ < 300 c/c OR WEB THICKNESS, WHICHEVER IS LESS.
- SIDE FACE REINFORCEMENT IN BEAMS RESISTING TORSION AND HAVING DEPTH OF CROSS SECTION > 450 SHALL BE SAME AS IN NOTE (24). THIS DRAWING SHALL BE READ ALONG WITH GAD.

SPECIFICATION :-

- DESIGN LOAD - G+3
- EARTHQUAKE ZONE - IV
- EXPANSION JOINT OF MIN 25 MM IS TO BE PROVIDED BETWEEN OLD AND NEW STRUCTURE.
- FOUNDATION SHALL REST ON HARD SOIL.

SHEET TITLE - LIFT RCC DETAILS

CLIENT NAME	DAV		
PROJECT NAME	LIFT AT DAV BAKHRI MUZAFFARPUR		
ARCHITECTS	100 - B, Patliputra colony, Opp. P & M Mall, Near Notre Dame Academy, Patna 800013 Tel / Fax: 2267175 / 2275624 E: contact@kapoors.biz - Web: WWW.Kapoors.Biz k&a Kapoor and associates ARCHITECTURE INTERIOR DESIGN URBAN DESIGN		
CONSULTANT	SECURE STRUCTURE A-201,SAKET VIHAR, BAILEY ROAD PATNA - 800014 E MAIL - securestructure16@gmail.com WEB - securestructure.in		
DRAWN : M.S.	CHECKED :A.A.	SCALE :NTS	CONSULT. DRG. NO. - 22/SSC/KA/2024
DATE: 31-07-2025		SHEET ST-01	REV. R0