

DPR
(Detailed Project Report)
for
Phase II work
of
District Institute of Education & Training
(DIET)
Campus at
Noorsarai, Nalanda

Estimated Cost : Rs. 393.257 Lac

Submitted to:

*Education Department,
Government of Bihar, Patna*

***Bihar State Educational Infrastructure Development Corporation Ltd.
Siksha Bhawan, Bihar Rashtrabhasha Parishad, Saidpur, Patna - 800004***

REPORT

Project : Phase II Work of DIET Campus at Noorsarai, Nalanda

Government of Bihar has decided to have progressive and quality improvement of Education in Bihar and has sanctioned the construction of DIET Buildings in the 1st phase. The construction of the sanctioned work is about to complete. To run the Institute smoothly, Campus development, Boundary wall & gate, Furnishing etc. are essential. Considering above work project proposal of Phase II work has been prepared. A team of Engineers and Architect has visited the campus and has collected the required data to make the proposal more authentic.

Provisions : In the proposed project work, following provision has been made.

- ▶ Construction of Boundary wall with safety grill.
- ▶ Construction of a simple but attractive main gate.
- ▶ Construction of a Principal Quarter and Staff Quarters.
- ▶ Construction of a Guard Room.
- ▶ Campus development work i.e. Earth filling, Landscaping (plantation), Wrought iron Garden benches, Earthen stepped lawn, a separate Tube well and pipe line work to maintain the plantation, which work also as standby Tube well and Pump for other buildings.
- ▶ Development of Approach Road, Pathways and Open Parking area using Interlocking Paver tiles and PCC as per necessity.
- ▶ Provision for campus lighting including garden light.
- ▶ Provision for Signage's, Fire fighting arrangement (sand filled buckets type).
- ▶ Provision for cycle / motor cycle stand using MS pipe truss and GCI sheet.
- ▶ Provision for Acoustic panel in existing double height multipurpose hall.
- ▶ Provision for Furnishing (Furnitures, ceiling fans, Wall bracket fan, fress air fan, Water filter and Water coolar, CCTV for campus, TV's for Hostel, Play equipments) for all buildings.
- ▶ Provision for Solar Hybrid Power Plant (For Both the Hostels & Institutional Building)

Specifications : Specifications of all Items of work will be as per standard building specifications and the relevant IS codes. Other materials (fixtures) will be as per ISI and standered reputed make.

Rates: Rates has been taken as per BCD (Building Construction Deptt.) Schedule of Rate 2016 (effective from 17.10.16), BCD Electrical SOR 2016, Delhi Schedule of Rate (DSR-2016). Provision for Non-scheduled items or materials are as per market rate.

The total project cost is Rs. 393.257 Lac. In views of utility and essentiality of proposed work, sanction of the project may kindly be accorded.

GENERAL ABSTRACT OF COST

----- Phase II Work of DIET Campus at Noorsarai, Nalanda

Sl. No.	Particulars	Estimated Amount
1.	Construction of Boundary wall	: Rs. 1338026.00
2.	Construction of Main Gate	: Rs. 510054.00
3.	Construction of Principal & Staff Quarters	: Rs. 14161915.00
3.	Construction of Guard Room.	: Rs. 424942.00
4.	Campus Development and Landscaping	: Rs. 3252000.00
5.	Construction of Cycle/Motor cycle stand	: Rs. 1115640.00
6.	Development of Campus Lighting	: Rs. 1065788.00
7.	Provision for Furnishing (Furniture)	: Rs. 11699893.00
8.	Provision for Solar Hybrid Power Plant	: Rs. 2100000.00
9.	Miscellaneous Work (Signage, Fire fighting, Acoustic paeling in conference hall, Earthen Seating platform, Wrought iron Garden Bench, PCC paver block parking area, etc.)	: Rs. 1084698.00
	Total	: Rs. 36752956.00
10.	Add Centage @ 7% (Supervision charge for BSEIDC)	: Rs. 2572744.00
	Grand Total	: Rs. 39325700.00
		Say Rs. 393.257 Lac

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda

BOUNDARY WALL

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
		Length of Boundary Wall				
		New Construction : 60.00 m. Raising & Repair : 180.00 m.				
		Civil Work				
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a	cum	27.97	230.50	6447.00
2	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	27.97	74.50	2084.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	1.67	204.40	341.00
4	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/l.	sqm	31.70	253.80	8045.00
5	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size)	cum	1.67	2775.70	4635.00
6	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	5.27	6035.20	31806.00
7	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement. ; 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	18.60	6644.60	123590.00
8	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.		0.00		
9	5.22.7A	TMTC-500 8mm dia	kg	1450.00	56.00	81200.00
9.1	5.22.7b	TMTC-500 10mm dia	kg	750.00	54.70	41025.00
9.2	5.22.7C	TMTC-500 12mm dia	kg	1600.00	53.40	85440.00
10.2	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	sqm	16.56	169.00	2799.00
11.2	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts	sqm	62.70	357.60	22422.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
10	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for Lintel, beams, plinth beams, girders, bressumers and cantilevers.	sqm	117.00	261.70	30619.00
11.3	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand) Extra for Brick work in superstructure above plinth level upto floor V level	cum	42.75	5003.90	213917.00
12.3	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	852.00	101.20	86222.00
10.2	9.48.1	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flat square or round bars etc all complete fixed to steel windows by welding.	kg	3600.00	86.00	309600.00
13.3	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade :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	852.00	71.10	60577.00
14.3	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.	sqm	144.00	22.80	3283.00
15.3	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)	sqm	144.00	54.10	7790.00
16.3		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
16.4		Local Sand	cum	4.73	181.50	858.00
16.5		Coarse Sand	cum	82.49	1206.30	99508.00
16.6		Stone Chips	cum	49.50	1022.20	50599.00
16.7		Bricks	%o no.	51743.00	531.00	27476.00
16.8		Cement	MT	36.95	282.30	10431.00
16.9		Steel	MT	3.800	282.30	1073.00
17.3		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
17.4		Bricks	%o no.	51743	279.30	14452.00
17.5		Cement	MT	36.950	319.00	11787.00
		Grand Total				1338026.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda

MAIN GATE

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
		Civil Work		1		
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	16.46 cum	230.50	3794.00
2	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	16.46 cum	74.50	1226.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.92 cum	204.40	188.00
4	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	8.00 sqm	253.80	2030.00
5	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size)	cum	0.80 cum	2775.70	2221.00
6	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	2.47 cum	6035.20	14907.00
7	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement. ; 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	8.40 cum	6644.60	55815.00
7	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	sqm	3.76 sqm	169.00	635.00
8	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts	sqm	68.00 sqm	357.60	24317.00
9	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
9.1	5.22.7A	TMTC-500 8mm dia	kg	600 kg	56.00	33600.00
9.2	5.22.7C	TMTC-500 12mm dia	kg	1350 kg	53.40	72090.00
10	6.1.12A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:4 (1cement :4 coarse sand) Extra for Brick work in superstructure above plinth level upto floor V level	cum	2.50 cum	5237.70	13094.00
11	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	10.00 sqm	101.20	1012.00

12	8.2.2.2	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 : 4 coarse 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 Granite of any colour and shade Area of slab over 0.50 sqm	sqm	57.98 sqm	3573.70	207203.00
10.1	10.32.2	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel, etc. as required. In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	680.00 kg	76.70	52156.00
13	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)	sqm	13.50 sqm	54.10	730.00
14		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
14.1		Local Sand	cum	1.08 cum	181.50	196.00
14.2		Coarse Sand	cum	8.20 cum	1206.30	9892.00
14.3		Stone Chips	cum	9.99 cum	1022.20	10212.00
14.4		Bricks	%o no.	1493 no.	531.00	793.00
14.5		Cement	MT	4.950 MT	282.30	1397.00
14.6		Steel	MT	1.950 MT	282.30	550.00
15		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
15.1		Bricks	%o no.	1493 no.	279.30	417.00
15.2		Cement	MT	4.950 MT	319.00	1579.00
		Grand Total				510054.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nala

PRINCIPAL QUARTER & STAFF QUARTER

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
1	2	3	4	5		6
Civil Work						
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	663.74	663.74 cum	230.50
2	2.29.1	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	100 sqm	220.00	220.00 100 sqm	806.00
3	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	878.40	878.40 cum	74.50
4	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	183.49	183.49 cum	204.40
5	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	508.61	508.61 sqm	253.80
6	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	21.00	21.00 cum	3323.10
7	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (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 Brown 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	79.00	79.00 sqm	799.40
8	11.36	Providing and fixing 1st quality Ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades, except burgundy, bottle green, black of any size as approved by E/I in skirting, risers of step 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 pigments of matching shade complete.	sqm	291.35	291.35 sqm	766.30

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
9	8.2.1.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels Rajnagar plain white marble /Udaipur green marble/ Zebra black marble Area of slab upto 0.50 sqm	sqm	579.40	579.40 sqm	1923.90
10	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1 cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	138.87	138.87 cum	6035.20
7	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement. ; 1:1:2 (1 cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	53.35	53.35 cum	6644.60
8	5.3.1b	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4graded stone aggregate 20 mm nominal size). Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-15 grade R.C.C instead of M-20 grade R.C.C, Providing M-25 grade R.C.C. instead of M-20 grade R.C.C	cum	205.82	205.82 cum	5319.10
11	6.1.14A	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:6 (1 cement :6 coarse sand)	cum	17.01	17.01 cum	4490.60
11	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand) Extra for Brick work in superstructure above plinth level upto floor V level	cum	218.99	218.99 cum	5003.90
12	6.18.4A + 6.19A	Half brick masonry with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:4 (1 cement: 4 coarse sand) Extra for half Brick masonry in superstructure above plinth level upto floor V level.	sqm	602.23	602.23 sqm	608.40
12	6.21A	Extra for providing and placing in position 2 Nos, 6 mm dia, MS bars at every third course of half brick masonry (with F. P. S. bricks)	sqm	602.23	602.23 sqm	55.40
13	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	sqm	1222.02	1222.02 sqm	140.40

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
13	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	2209.19	2209.19 sqm	101.20
14	13.24.2	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)	sqm	601.41	601.41 sqm	87.40
14	11.3.1 + 11.8	Cement concrete flooring 1:2:4 (1 cement:2 coarse:sand:4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, etc. but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate. Extra for making checkers of approved pattern on cement concrete floors, steps, landing, pavements etc.	sqm	220.00	220.00 sqm	267.70
15	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	4032.62	4032.62 sqm	118.40
15	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade :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	1222.02	1222.02 sqm	71.10
16	13.77.2	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including priming coat with cement primer.	sqm	2810.60	2810.60 sqm	69.10
11	13.81.1	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)	sqm	241.92	241.92 sqm	26.70
12	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.	sqm	106.08	106.08 sqm	22.80
17	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)	sqm	366.14	366.14 sqm	54.10
18	10.14.1	Providing and fixing T-iron frames for doors. windows and ventilators of mild steel Tee-sections, joints miltred and welded with 15x3 mm lugs 10 cm long 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 rawl plugs and screws or with fixing clips or with bolts and nuts as required including Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	kg	1102.50	1102.50 kg	70.90
19	9.21.1	Providing and fixing flush door shutters conforming to IS : 2202 (Part-I) non-decorative type core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including anodized aluminum butt hinges with necessary screws.	sqm	148.68	148.68 sqm	1698.20

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
19	9.100.1	Providing and fixing aluminium 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. complete: 125 mm	each	142.00	142 no.	69.40
20	9.97.1	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: 300 x 10 mm	each	71.00	71 no.	111.70
21	9.98	Providing and fixing aluminium pull bolt lock, 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 bolts, nut and washers etc. complete.	each	71.00	71 no.	69.60
22	9.96.1	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 or shade, with nuts and screws etc. complete: 300 x 16 mm	each	71.00	71 no.	218.70
23	9.101.2	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. Twin rubber stopper	each	71.00	71 no.	83.80
24	10.12.1 + 10.13B	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. lugs 10cm long with steel legs embedded in cement concrete blocks 15x10x10cm. of (1:3:6) 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 glass panels with glazing clips 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. 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. (Steel window)	sqm	86.64	86.64 sqm	3175.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
25	10.12.1 + 10.13C	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. lugs 10cm long with steel legs embedded in cement concrete blocks 15x10x10cm. of (1:3:6) 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 glass panels with glazing clips 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. 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. (Steel Ventilators.)	sqm	5.76	5.76 sqm	3181.80
24	9.48.1	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flat square or round bars etc all complete fixed to steel windows by welding.	kg	2333.76	2333.76 kg	86.00
26	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
26.1	5.22.7A	TMTC-500 8mm dia	kg	20900	20900 kg	56.00
26.2	5.22.7B	TMTC-500 10mm dia	kg	6950	6950 kg	54.70
26.3	5.22.7C	TMTC-500 12mm dia	kg	6400	6400 kg	53.40
26.4	5.22.7D	TMT-500 16mm dia	kg	7500	7500 kg	54.40
26.5	5.22.7E	TMT-500 20mm dia	kg	10700	10700 kg	53.60
26.5	5.22.7F	TMT-500 25mm dia	kg	10200	10200 kg	53.60
27	10.17	Providing and fixing M.S fan clamp type I or II of 16 mm dia. M.S bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop, all as per standard design complete.	each	90.00	90 no.	97.00
28	10.33.1	Providing & fixing hand rail by welding etc. to steel ladder railing & staircases railing including applying a priming coat of approved steel primer. MS tube (medium) 40mm nominal bore.	kg	450.00	450 kg	90.70
29	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm	46.48	46.48 sqm	359.80
30	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	sqm	177.53	177.53 sqm	169.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
31	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for Lintel, beams, plinth beams, girders, bressumers and cantilevers.	sqm	722.08	722.08 sqm	261.70
32	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts	sqm	533.52	533.52 sqm	357.60
33	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform.	sqm	754.84	754.84 sqm	291.00
PLUMBING & SANITARY WORKS						
34	12.78.2	Providing and fixing on wall face unplasticised PVC (working pressure 4 kgf per sqm) rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. 110 mm dia	m	80.00	80.00 m	212.40
35	12.80.2	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe / soil waste and vent pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete for 110 mm dia pipe	each	80.00	80 no.	144.50
36	17.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast iron P or S tap, 10 litre low white P.V.C. Flushing cistern with manually controlled device (handle level) conforming to IS : 7231 Parryware/Hindware with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. White Vitreous China Orissa pattern W C pan of size 580 x 440 mm with integral type foot rest.	each	2	2 no.	3049.30
37	17.2.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked black solid plastic seat and lid	each	10	10 no.	2903.00
38	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :				
	17.4.3	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	each	12	12 no.	6205.20

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
39	17.7.4	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Wash basin size 550 x 400 mm with a single 15 mm C.P. brass pillar taps.	each	8	8 no.	1604.90
39	17.10.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040 mm bowl depth 250 mm	each	6	6 no.	7099.60
40	17.28.2.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	each	25	25 no.	76.10
40	17.28.2.2	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 40 mm dia	each	15	15 no.	78.50
41	17.32.2	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453 x 357 mm	each	12	12 no.	636.90
42	17.33	Providing and fixing 600 x 120 x 5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	12	12 no.	473.70
43	18.8.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes joining of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of E/I Concealed work including cutting chases and making good the same. 15 mm nominal outer dia Pipes	m.	75	75.00 m.	221.4
44	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of E/I.				
44.1	18.9.2	20 mm nominal outer dia Pipes (External work)	m.	100	100.00 m.	147.30
44.2	18.9.3	25 mm nominal outer dia Pipes (External work)	m.	50	50.00 m.	193.60
45	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	litre	4000	4000.00 litre	6.60

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
46	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	each	18	18 no.	481.60
47	18.55.2	Providing and fixing PTMT stop cock of approved quality and colour. 20 mm nominal bore, 89 mm long, weighing not less than 88 gms	each	20	20 no.	175.30
48	19.6.2	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete: 150 mm dia R.C.C. pipe	m.	40	40.00 m.	329.40
49	19.27.1	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6	6 no.	3384.80
50	19.30.3.1	Constructing brick masonry chamber for Underground C.I. Inspection Chamber and bend with 7.5 class designation bricks in cement mortar 1:4, C.I. Cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg. (weight of cover 23 kg. and weight of frame 15 kg.), RCC top slab with 1:1.5:3 mix, foundation concrete 1:5:10 mix, inside plastering 12 mm thickness. with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design. Inside dimensions 600x850 mm and 45cm deep for pipe line with three or more inlets : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2	2 no.	5352.70
51	19.32.1	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with brick and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1	1 no.	28775.50
52	CST	Construction of Septic Tank complete (as per detailed)	each	1	1 no.	84878.00
53	MTW	Providing all labour, tools and material for manual bored Tube well of size 125 x 40 mm complete job including supply and installation of 1 H.P Submersible pump (as per detailed attached)	each	1	1 no.	60432.00
ELECTRICAL ITEMS OF WORK						
54	1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
54.1	1.3.2	Group B	point	20	20 point	567.00
54.2	1.3.3	Group C	point	120	120 point	675.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
55	1.4	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box etc. as required.	point	6	6 point	720.00
56	1.5	Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	m.	400	400.00 m.	193.00
57	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
57.1	1.7.2	2x2.5 sqmm + 1x2.5 sq mm earth wire	m.	300	300.00 m.	150.00
57.2	1.7.3	2x4 sqmm + 1x4 sqmm earth wire (For AC, Industrial Socket)	m.	10	10.00 m.	193.00
57.3	1.7.5	2x10 sqmm + 1x6 sqmm earth wire	m.	10	10.00 m.	417.00
58	1.16	Supplying and drawing, following pair, 0.5 sq.mm FR PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface / recessed steel / PVC conduit as required.				
	1.16.2	2 pair	m.	300	300.00 m.	19.00
59	1.17	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	m.	300	300.00 m.	24.00
60	1.29	Supplying and fixing metal/PVC box of 150 mm X 75 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 A socket outlet and 5/6 A piano type switch, connections, painting etc. as required	each	30	30 no.	199.00
61	1.30	Supplying and fixing metal/PVC box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 and 15/16 A socket outlet and 5/6 & 15/16A piano type switch, connections, painting etc. as required	each	15	15 no.	313.00
62	1.24	Supplying and fixing following modular type switch / socket on the existing modular plate and switch box including connections but excluding modular plate etc as required.				
62.1	1.24.1	5/6 A switch	each	50	50 no.	98.00
62.2	1.24.2	2 way, 5/6 A switch	each	6	6 no.	108.00
62.3	1.24.3	15/16 A switch	each	10	10 no.	125.00
62.4	1.24.4	3 pin 5/6 A socket outlet	each	30	30 no.	120.00
62.2	1.24.6	Telephone socket outlet	each	10	10 no.	103.00
62.5	1.24.7	TV antenna socket outlet	each	15	15 no.	103.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
63	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	each	24	24 no.	387.00
64	1.33	Supplying and fixing 3 pin, 6A ceiling rose on the existing junction box/ wooden block including connection etc as required.	each	40	40 no.	35.00
65	1.34	Supplying and fixing batten / angle holder including connection etc as required.	each	50	50 no.	48.00
66	2.12	Supplying and fixing following rating, 240/415 V, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required				
66.1	2.12.1	6 to 32 amp, Single Pole	each	20	20 no.	208.00
66.2	2.12.2	6 to 32 amp, SPN	each			340.00
66.3	2.12.3	40 amp, Single Pole and neutral	each	8	8 no.	819.00
67	2.9	Supplying and fixing of following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required (But without MCB/RCCB/ISOLATOR).				
	2.9.4	4 Ways (4+12 ways) double door	each	6	6 no.	2971.00
68	2.17	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
68.1	2.17.3	63 A	each	6	6 no.	3277.00
72	2.14	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required	each	40	40 no.	16.00
73	3.6	Earthing with copper earth plate 600mmx 600mm x 3mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc with charcoal/cock and salt as required.	set	2	2.00 set	11703.00
74	3.7	Supplying and laying 6 SWG G.I. wire at 0.50 meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required	m.	20	20.00 m.	18.00
75	3.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	m.	100	100.00 m.	141.00
76	XLPE35	Supplying of 3.5 core 35 Sqmm XLPE PVC insulated and sheathed armoured cable with alluminium conductor of approved make for working voltage upto and including 1100 volts. (material rate x 1.15 x 1.01)	m.	150	150.00 m.	351.90
77	7.1	Laying of one number PVC insulated and PVC Sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
77.1	7.1.1	Upto 35 sqmm	m.	150	150.00 m.	149.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
79	2.3	Supplying and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with IS marked HRC fuses including drilling holes in cubical panel making connections etc. as required.				
79.1	2.3.3	100 A TP&N	each			5812.00
80	4.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required	each	1	1 no.	371.00
81	4.7	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required. (For horizontal run)	m.	20	20.00 m.	67.00
82	4.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or on surface of wall for lightning conductor complete as required. (For vertical run)	m.	20	20.00 m.	86.00
83	2.5.3	Providing & fixing following capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty, complete with all accessories including connections, earthing the body etc. as required 200 Amps	each	1	1 no.	6360.00
84		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
84.1		Local Sand	cum	193.66	193.66 cum	181.50
84.2		Coarse Sand	cum	327.81	327.81 cum	1206.30
84.3		Stone Chips	cum	357.03	357.03 cum	1022.20
84.4		Bricks	%o no.	167018	167018 no.	531.00
84.6		Cement	MT	287.200	287.200 MT	282.30
84.7		Steel	MT	62.650	62.650 MT	282.30
88		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
88.1		Bricks	%o no.	167018	167018 no.	279.30
88.2		Cement	MT	287.200	287.200 MT	319.00
		Total (Schedule Items)				
		Non Schedule Items (on Tendered Rate)				
89.2	SP01	Providing and fixing uPVC soil, waste and vent pipes including cut length pipes as required, fixing the exposed pipe with clamps at 1.00 m spacing, joining of pipes & fittings with one step PVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of E/I. 110 mm dia	m	50	50.00 m	305.00
90.2	SP03	Supplying fitting and fixing following uPVC (soil, waste and vent) pipe fittings complete				
90.3	SP04	DOOR TEE 110 mm dia	each	10	10 no.	303.00
90.4	SP05	DOOR BEND 110 mm dia	each	20	20 no.	243.00
90.5	SP06	BEND 45 / 87.5 degree 110 mm dia	each	10	10 no.	153.00
90.6	SP07	VENT COWEL 110 mm dia	each	8	8 no.	55.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
90.7	SP08	FLOOR TRAP 110X110 mm dia	each	12	12 no.	365.00
FIRE EXTINGUISHER						
91.7	FE	Brand new ISI marked Life Guard ABC type multipurpose Fire Extinguishers 4 Kgs. Capacity, fitted with pressure gauge complete in all respects, ready to use, complete installation kit.	each	10	10 no.	6100.00
Total (Non Schedule Items)						
Grand Total						

nda
Amount (Rs.)
7
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1530.00
440.00

Amount (Rs.)
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14161915.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda

GUARD ROOM

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
Civil Work						
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	12.96 cum	230.50	2987.00
2	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	12.96 cum	74.50	966.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	11.62 cum	204.40	2375.00
4	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	sqm	19.56 sqm	253.80	4964.00
5	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size)	cum	1.22 cum	2775.70	3386.00
6	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	5.55 cum	6035.20	33495.00
7	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement. ; 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	2.43 cum	6644.60	16146.00
8	5.3.1b	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4graded stone aggregate 20 mm nominal size). Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-15grade R.C.C instead of M-20 grade R.C.C, Proiding M-25 grade R.C.C. instead of M-20 grade R.C.C	cum	4.29 cum	5319.10	22819.00
9	6.1.14A	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:6 (1cement :6 coarse sand)	cum	4.56 cum	4490.60	20477.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
10	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand) Extra for Brick work in superstructure above plinth level upto floor V level	cum	8.33 cum	5003.90	41682.00
11	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	37.21 sqm	101.20	3766.00
12	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	sqm	66.22 sqm	140.40	9297.00
13	13.24.2	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)	sqm	9.30 sqm	87.40	813.00
14	11.26	Kota stone slab flooring over 20 mm (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 CM 1:4 20 to 25 mm thick	sqm	14.73 sqm	998.30	14705.00
15	10.14.1	Providing and fixing T-iron frames for doors. windows and ventilators of mils steel Tee-sections, joints miltred and welded with 15x3 mm lugs 10 cm long 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 rawl plugs and screws or with fixing clips or with bolts and nuts as required including Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately).	kg	18.20 kg	70.90	1290.00
16	9.21.1	Providing and fixing flush door shutters conforming to IS : 2202 (Part-I) non-decorative type core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including	sqm	2.10 sqm	1698.20	3566.00
17	9.100.1	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. complete: 125 mm	each	2 no.	69.40	139.00
18	9.97.1	Providing and fixing alluminium 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: 300 x 10 mm	each	1 no.	111.70	112.00
19	9.96.1	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 or shade, with nuts and screws etc. complete: 300 x 16 mm	each	1 no.	218.70	219.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
20	10.12.1 + 10.13B	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. lugs 10cm long with steel legs embedded in cement concrete blocks 15x10x10cm. of (1:3:6) 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 glass panels with glazing clips 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. 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. (Steel window)	sqm	3.00 sqm	3175.00	9525.00
21	9.48.1	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flat square or round bars etc all complete fixed to steel windows by welding.	kg	54.00 kg	86.00	4644.00
22	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
22.1	5.22.7A	TMTC-500 8mm dia	kg	1200 kg	56.00	67200.00
22.2	5.22.7C	TMTC-500 12mm dia	kg	1000 kg	53.40	53400.00
23	10.17	Providing and fixing M.S fan clamp type I or II of 16 mm dia. M.S bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop, all as per standard design complete.	each	1 no.	97.00	97.00
24	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	112.73 sqm	118.40	13347.00
25	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade :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	66.22 sqm	71.10	4708.00
26	13.77.2	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including priming coat with cement primer.	sqm	46.51 sqm	69.10	3214.00
27	13.81.1	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)	sqm	4.62 sqm	26.70	123.00
28	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.	sqm	6.00 sqm	22.80	137.00
29	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)	sqm	10.62 sqm	54.10	575.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
30	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm	9.60 sqm	359.80	3454.00
31	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	sqm	16.10 sqm	169.00	2721.00
32	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for Lintel, beams, plinth beams, girders, bressumers and cantilevers.	sqm	29.78 sqm	261.70	7793.00
33	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts	sqm	32.40 sqm	357.60	11586.00
34	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform.	sqm	19.13 sqm	291.00	5567.00
		ELECTRICAL ITEMS OF WORK				
35	1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.3.2	Group B	point	6 point	567.00	3402.00
36	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.7.2	2x2.5 sqmm + 1x2.5 sq mm earth wire	m.	30.00 m.	150.00	4500.00
37	1.30	Supplying and fixing metal/PVC box of 180 mm X 100 mm X 60 mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 and 15/16 A socket outlet and 5/6 & 15/16A piano type switch, connections, painting etc. as required	each	2 no.	313.00	626.00
38	1.23	Supplying and fixing following piano type switch/ socket on the existing switch box/ cover including connections etc. as required.				
38.1	1.23.1	5/6 A Switch	each	6 no.	32.00	192.00
38.2	1.23.4	3 pin 5/6 A socket outlet	each	2 no.	44.00	88.00
39	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	each	1 no.	387.00	387.00
40	1.33	Supplying and fixing 3 pin, 6A ceiling rose on the existing junction box/ wooden block including connection etc as required.	each	2 no.	35.00	70.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
41	1.34	Supplying and fixing batten / angle holder including connection etc as required.	each	2 no.	48.00	96.00
42	2.12	Supplying and fixing following rating, 240/415 V, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	2.12.2	6 to 32 amp, SPN	each	1 no.	340.00	340.00
43		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
43.1		Local Sand	cum	12.01 cum	181.50	2180.00
43.2		Coarse Sand	cum	11.91 cum	1206.30	14367.00
43.3		Stone Chips	cum	11.58 cum	1022.20	11837.00
43.4		Bricks	%o no.	5864 no.	531.00	3114.00
43.6		Cement	MT	6.800 MT	282.30	1920.00
43.7		Steel	MT	2.200 MT	282.30	621.00
44		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
44.1		Bricks	%o no.	5864 no.	279.30	1638.00
44.2		Cement	MT	6.800 MT	319.00	2169.00
		Total (Schedule Items)				418842.00
		Non Schedule Items (on Tendered Rate)				
45.2	FE	Brand new ISI marked Life Guard ABC type multipurpose Fire Extinguishers 4 Kgs. Capacity, fitted with pressure gauge complete in all respects, ready to use, complete installation kit.	each	1 no.	6100.00	6100.00
		Total (Non Schedule Items)				6100.00
		Grand Total				424942.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalan

CAMPUS DEVELOPMENT & LAND SCAPPING

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
1	2	3	4	5		6
		Campus Filling				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	3444.00	3444.00 cum	204.40
1.1		Carriage of Local sand by an average lead 3.00 km	cum	3444.00	3444.00 cum	181.50
		LAND SCAPPING & PLANTATION				
1	23.14.2	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water,dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately): Holes 60 cm dia. And 60 cm deep.	each	231.00	231 no.	42.20
2	23.2	Supplying and stacking of good earth at site including royalty but excluding carriage (earth measured in stacks will be reduced by 20% for payment).	cum	33.54	33.54 cum	85.50
3	23.2d	Carriage of good Earth from a ave. lead of 2 km.	cum	33.54	33.54 cum	186.00
4	23.4.1	Supplying and stacking at site dump manure from approved source, excluding carriage (manure measured in stacks will be reduced by 8% for payment) Screened through sieve of I.S. designation 20 mm	cum	8.39	8.39 cum	25.00
5	23.3	Supplying and stacking Sludge at site including royalty and carriage (Sludge measused in stacks will be reduced by 8% for payment)	cum	8.39	8.39 cum	241.60
6	23.9	Mixing earth and sjudge or manure in porportion specified or directed.	cum	50.32	50.32 cum	12.40
7	23.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/and good earth to be paid separately).	cum	50.32	50.32 cum	18.00
		TUBE WELL & PIPELINE WORK				
	MTW	Providing all labour, tools and material for manual bored Tube well of size 125 x 40 mm complete job including supply and installation of 1 H.P Submersible pump (as per detailed attached)	each	1.00	1 no.	60432.00
		Pipe line work to irrigate plantation				
	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of E/I.				
	18.9.2	20 mm nominal outer dia Pipes (External work)	m.	150.00	150.00 m.	147.30

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
	18.54.1	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	8.00	8 no.	138.70
		APPROACH ROAD, PATHWAYS & DRAIN				
		Length of Road = 292.00 m., Length of Drain = 90.00 m.				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	194.18	194.18 cum	204.40
8	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	890.60	890.60 sqm	253.80
9	11.73	Providing designation 100A one brick on edge soling joints filled with local sand including cost of watering taxes royalty all complete as per building specification and direction of E/I.	sqm	890.60	890.60 sqm	407.00
10	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	133.59	133.59 cum	3323.10
11	5.9.1	Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	sqm	87.60	87.60 sqm	169.00
	15.9 (RCD)	Providing Dry Rubble flooring with approved size and type of Rubble (Stone), all complete	cum	52.56	52.56 cum	1336.00
	8.2A (RCD)	Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on	m	584.00	584.00 m	362.00
12	6.47A	Providing 250mm wide brick drain in cement mortar (1:6) with av. 150mm. Clear depth and 250mm apron including cost of E/W involved with 75mm cement concrete (1:4:8) over one brick designation 100-A flat soling in proper grade and slope at the base.the drain duly.plastered in CM. (1:3) with punning over exposed surface all complete as per building specification and dir of E/I.	m	90.00	90.00 m	970.50
12		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
12.1		Local Sand	cum	247.61	247.61 cum	181.50
12.2		Coarse Sand	cum	59.45	59.45 cum	1206.30
12.3		Stone Chips	cum	118.90	118.90 cum	1022.20
12.4		Bricks	%o no.	76663	76663 no.	531.00
12.5		Cement	MT	42.75	42.750 MT	282.30
13		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
13.1		Bricks	%o no.	76663	76663 no.	279.30

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
13.2		Cement	MT	42.750	42.750 MT	319.00
		Total (Schedule Items)				
		Non Schedule Items (on Tendered Rate)				
14.2	MR	Procurement and planting of species (Trees, Shrubs, ground covers and creepers) including watering / irrigation controlling plant disease, pests and weeds, supporting with sturdy stake (as and when required) manuring, pruning and maintenance for 3 month after planting, all complete.				
15.2		Best quality Health shrubs of species				
15.3		shurbs / Hedge	each	40.00	40 no.	152.00
15.4		Marigold	each	35.00	35 no.	42.00
15.5		Roses	each	30.00	30 no.	73.00
15.6		Oleander	each	16.00	16 no.	93.00
15.7		Cycus	each	10.00	10 no.	230.00
15.8		Golden Duranta (ht 6")	each	10.00	10 no.	285.00
15.9		Hamelia	each	10.00	10 no.	90.00
16		Plumeria Albba (Champa)	each	10.00	10 no.	95.00
16.1		Lantanna Depressa	each	10.00	10 no.	92.00
16.2		Best quality healthy trees				
16.3		Amaltas	each	15.00	15 no.	285.00
16.4		Ashoka	each	25.00	25 no.	95.00
16.5		Royal Palm	each	15.00	15 no.	350.00
16.6		Neem	each	5.00	5 no.	85.00
		Total (Non Schedule Items)				
		Grand Total				

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Amount (Rs.) 7
703954.00
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9748.00
2868.00
6238.00
210.00
2027.00
624.00
906.00
60432.00
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Amount (Rs.)
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40708.00
12068.00
21412.00

Amount (Rs.)
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1488.00
2300.00
2850.00
900.00
950.00
920.00
4275.00
2375.00
5250.00
425.00
31473.00
3252000.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda						
CYCLE / MOTOR CYCLE STAND						
Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016						
Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
		Portico (In front of Institutional Building)				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	4.80 sqm	204.40	981.00
2	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	48.00 sqm	253.80	12182.00
3	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	7.20 cum	3323.10	23926.00
4	5.1.3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:2:4 (1cement: 2 coarse sand : 4graded stone aggregate 20mm nominal size)	cum	0.27 cum	3984.50	1076.00
5	13.11.2	12mm thick Cement plaster of mix 1:4 (1 cement : 4 coarse sand)	sqm		114.70	
6	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
6.1	5.22.7A	TMTC-500 8mm dia	kg	15.00 kg	56.00	840.00
6.2	5.22.7B	TMTC-500 10mm dia	kg	35.00 kg	54.70	1915.00
7	10.16.1	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete: Hot finished welded type tubes	kg	1180.00 kg	92.30	108914.00
8	12.1.4	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost or purlins, rafters and trusses 0.8mm thick with zinc coating not less than 275 gm/sqm	sqm	54.18 sqm	729.60	39530.00
9	12.6.1	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with G.I.J. or L hooks . Bolts and nuts 8 mm dia. G. 1. limpet and bitumen washers complete. 0.80 mm thick with zinc coating not less than 275 gm/sqm Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G. I. sheets 0.9 m x 1.8 m ,.	m	6.30 m	499.90	3149.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
10	11.20	Chequerred precast cement concrete tiles 22 mm thick with marbie chips of size 6 mm in footpath & coutyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)				
	11.20.2	Medium shade using 50% white cement 50% grey cement	sqm		861.70	
11		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
11.1		Local Sand	cum	5.76 cum	181.50	1045.00
11.2		Coarse Sand	cum	3.32 cum	1206.30	4005.00
11.3		Stone Chips	cum	6.65 cum	1022.20	6798.00
11.4		Bricks	%o no.	1549 no.	531.00	823.00
11.5		Cement	MT	2.400 MT	282.30	678.00
11.6		Steel	MT	0.050 MT	282.30	14.00
12		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
12.1		Bricks	%o no.	1549 no.	279.30	433.00
12.2		Cement	MT	2.400 MT	319.00	766.00
		Total (Portico)				207075.00
		Cycle / Motor Cycle Stand				
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	38.44 sqm	230.50	8860.00
2	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	38.44 sqm	74.50	2864.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	23.27 cum	204.40	4756.00
4	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	232.65 sqm	253.80	59047.00
5	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	27.81 cum	3323.10	92415.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
6	5.1.3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:2:4 (1cement: 2 coarse sand : 4graded stone aggregate 20mm nominal size)	cum	5.27 cum	3984.50	20998.00
7	6.1.14A	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:6 (1cement :6 coarse sand)	cum	12.14 cum	4490.60	54516.00
8	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	sqm	19.50 sqm	140.40	2738.00
9	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
9.1	5.22.7A	TMTC-500 8mm dia	kg	200.00 kg	56.00	11200.00
9.21	5.22.7B	TMTC-500 10mm dia	kg	350.00 kg	54.70	19145.00
10	10.16.1	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete: Hot finished welded type tubes	kg	4350.00 kg	92.30	401505.00
11	12.1.4	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost or purlins, rafters and trusses 0.8mm thick with zinc coating not less than 275 gm/sqm	sqm	199.82 sqm	729.60	145789.00
12	12.6.1	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with G.I.J. or L hooks . Bolts and nuts 8 mm dia. G. 1. limpet and bitumen washers complete. 0.80 mm thick with zinc coating not less than 275 gm/sqm Consider the length of the ridge 10.35 metres. The ridge will be made out of plain G. I. sheets 0.9 m x 1.8 m ,.	m	20.60 m	499.90	10298.00
13		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
13.1		Local Sand	cum	27.92 cum	181.50	5067.00
13.2		Coarse Sand	cum	18.34 cum	1206.30	22124.00
13.3		Stone Chips	cum	29.44 cum	1022.20	30094.00
13.4		Bricks	%o no.	12439 no.	531.00	6605.00
13.5		Cement	MT	11.500 MT	282.30	3246.00
13.6		Steel	MT	0.550 MT	282.30	155.00
14		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
14.1		Bricks	%o no.	12439 no.	279.30	3474.00
14.2		Cement	MT	11.500 MT	319.00	3669.00
		Total (Cycle Stand)				908565.00
		Grand Total				1115640.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda						
CAMPUS LIGHTING						
Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016						
Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
1	8.13.1	Supplying and erection of 6 metre height Hot-dip Galvanized octagonal street light pole with following arm with top dia 70mm and bottom dia A/F 130 mm, made of 3 mm sheet along with base plate of size 220 x 220 x 12 mm, small door opening for junction box mounting and suitable size foundation bolts with template and and all complete as required. (but without pole collar) Single Arm, 1500 mm	each	14 no.	22703.00	317842.00
2	8.13.2	Supplying and erection of 6 metre height Hot-dip Galvanized octagonal street light pole with following arm with top dia 70mm and bottom dia A/F 130 mm, made of 3 mm sheet along with base plate of size 220 x 220 x 12 mm, small door opening for junction box mounting and suitable size foundation bolts with template and and all complete as required. (but without pole collar) Double Arm, 1500 mm	each	4 no.	24238.00	96952.00
3	8.3	Providing and making steel pole collar with cement concrete 1:3:6 of specified size and shape including form work, plastering if required, curing etc. as required. (Volume of pole/pipe not to deducted)	each	18 no.	6132.00	110376.00
4	5.12.5	Supplying and fixing 40/45 watt LED type street light with die cast aluminium housing for ingress protection of IP65 and complete with all accessories etc., on pole / building including connection with FR PVC insulated copper conductor cable and earthing the body etc. as required	each	22 no.	9624.00	211728.00
5	XLPE6	Supplying of 2 core 6 sqmm XLPE PVC insulated and sheathed armoured cable with alluminium conductor of approved make for working voltage upto and including 1100 volts. (material rate x 1.15 x 1.01)	m.	370.00 m.	548.00	202760.00
6	7.1	Laying of one number PVC insulated and PVC Sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	7.1.1	Upto 35 sqmm	m.	370.00 m.	149.00	55130.00
7	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.7.2	2x2.5 sqmm + 1x2.5 sq mm earth wire	m.	220.00 m.	150.00	33000.00
		Total (Schedule Items)				1027788.00
		Non Schedule Items (on Tendered Rate)				
		Supplying and fixing 10/15 watt LED type garden light with die cast aluminium housing (Philips / Bajaj / Equivalent make) for ingress protection of IP65 and complete with all accessories etc., on pipe post including connection with FR PVC insulated copper conductor cable and earthing the body etc. (complete job) as required	each	10 no.	3800.00	38000.00

		Total (Non Schedule Items)				38000.00
		Grand Total				1065788.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda
(FURNITURE AND FURNISHING)

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
A	Intitutional Building				
A.1	Furniture :				
	Supply of Following Steel Furniture of reputed make as per approved sample, including all taxes and FOR at site.				
1	DESK BENCH : Three Seater Class room Desk cum Bench Dimension-1500 x 895 x 750(Approx.) Desk panel Seat, Back-The panels should be made from 18 mm thick pre-laminated Boards with PVC edge banding on all sides, Understructure-Made of 25.4 x 25.4 mm x1.2 mm thick powder coated ERW tubes at base which are welded to the desk and seat supports that are made of 1.0 mm thick powder coated MS 'C' sections. Stiffeners should be provided between the 2 vertical frames at base and back of seat should be made from 25.4 x25.4 x1.2 mm thick powder coated ERW tubes closed with plastic caps. Additional horizontal supports of 1.5 mm thick powder coated MS 'C' sections should be placed below the desk and seat to add to the rigidity of the structure. The storage shelf is made from 0.8 mm thick powder coated MS sheet which is affixed below the desktop. Hooks are provided on either sides of the vertical frame of the desk, for hanging bags/bottles. They are made from 6.0 mm dia MS rods.	each	160	8500.00	1360000.00
2	CHAIR : (for Staff Room, Girls Common Room, Seminar Room, Vice Principal, Library etc.) Chair with Cushion chair on tubular frame with arm cantilever type made of dia 2.5cm X 14BG MS ERW round Tube with black powder coated paint and Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. Seat height 43cm, back height 80 cm.	each	50	4250.00	212500.00
3	TEACHERS TABLES : (CLASS ROOM) TABLES made of MS ERW round tube dia 25.4 x 1.2 mm thick with 25mm thick pre-laminated top size 900 x 590 x 750 with one drawer unit made of 0.5 mm thick CRCA sheet mild steel, all steel components shall be powder coated paint fitted with lock.	each	15	10100.00	151500.00

4	TEACHERS TABLES : (Canteen) TABLES made of MS ERW round tube dia 25.4 x 1.2 mm thick with 25mm thick pre-laminated top size 900 x 590 x 750 with one drawer unit made of 0.5 mm thick CRCA sheet mild steel, all steel components shall be powder coated paint fitted with lock.	each	15	10100.00	151500.00
5	CHAIR : (for Canteen) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish	each	15	3100.00	46500.00
6	OFFICE TABLE : TABLE made of MS ERW round tube dia 25.4 x 1.2mm thick with 25mm thick pre-laminated top size 1365W x 680D with both side drawer unit one side three drawers & another side two drawers made of 0.5 mm thick CRCA sheet mild steel, All steel components have powder coated paint fitted with both side drawer lock.	each	2	13200.00	26400.00
7	PRINCIPAL TABLE : TABLE of size 1500 x 750 x 750 made up of 18mm thick pre-laminated Particle Board (PLB), all work surface edges are duly sealed with 2mm thick PVC edge banding, Rectangular Frame-Fabricated component in 1.2mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester), Leg-Fabricated component in 38mmx25mmx1.2mm thick MS ERW Tube (IS:7138), Finish: Powder coat (Epoxy polyester)	each	1	14300.00	14300.00
8	MIDBACK CHAIR : (for Principal) CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat shall be extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM . PNEUMATIC HEIGHT ADJUSTMENT . The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded and fitted with 5 nos. twin wheel castors.	each	1	7100.00	7100.00

9	Visitor Chair - CHAIR with Cantilever type frame made of dia 2.54cm x 14 BG thick M.S.ERW tube and coated without arm. Seat/Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. BACK SIZE-38.1 cm (W) X 42.4 cm (D). The seat should be extra thick foam on front edge to give comfort to popliteal area.	each	4	5600.00	22400.00
10	TABLE (for STAFF ROOM, RESOURCE ROOM, ARTS ROOM, PSYCHOLOGY LABS) : TABLE 1800W Dimension- 1800 x 900 x 740 made of Worktop- 25 thick pre-laminated Particle Board (PLB) with 2mm thick PVC Edge beading, Understructure C – Frames 1.6 mm thick M.S C-frame supporting the Top., Legs- Dia. 38.1 x 1.6 mm thick M.S ERW tube.	each	5	10600.00	53000.00
11	LABORATORY TABLE: Laboratory Table of size 1600 x 910 mm with main Storage Unit with cam Lock: 900mm D , 880 mm wide with two Shutters & One Drawer, Add -On Storage Sink Unit With Cam Lock : 900 mm (W) x 355 mm (D), 3 Way Faucet Bench Mounted 3 way water fittings " Swing Gooseneck .	each	4	74000.00	296000.00
12	LAB STOOL : Revolving Lab Stool with Back, Seat Assembly made of flat plywood, moulded Polyurethane foam and upholstered with replaceable synthetic leather covers, SEAT size of 400 mm diameter, 360° Revolving type. BACK Assembly made of contoured Lumbar support for extra comfort. BACK SIZE: 45.0 cm (W) covered with HIGH RESILIENCE (HR) foam as per IS:7888 for 25% compression. HEIGHT should be manually adjustable with locking facility at comfortable position. PEDESTAL Assembly should be fabricated from 2 mm thick HR sheet (IS: DD 1079 I HR), powder coated (DFT 40-60 microns) and fitted with an injection moulded black Polypropylene Hub Cap and twin wheel castors.	each	40	4120.00	164800.00
13	STOOLS : Stool with 300 mm dia made of 1.00 mm thick CR Steel dully welded to the understructure and powder coated (DFT 40-60 microns) painting. UNDERSTRUCTURE should be made of MS ERW tube (22 mm dia). All MS section should be powder coated in approved colour.	each	60	1130.00	67800.00

14	STEEL ALMIRAH : Steel Almirah of size 1980 x 916 x 486 mm with Four Shelves multi bend construction and inter locking design and full length over applying doors and sides. Three-way bolting mechanism. Spot welding & CO2 welding. Anticorrosion treated components, oven baked powder coating process. Material thickness 0.9mm.Top, Bottom, LH& RH sides and back material thickness= 0.9mm,Removable RH & LH main door with stiffeners material thickness= 0.9mm, 4 adjustable shelves of thickness= 0.8mm.	each	10	18500.00	185000.00
15	TABLE (for Library) : TABLE 1800W Dimension-1800 x 900 x 740 made of Worktop- 25 thick pre-laminated Particle Board (PLB) with 2mm thick PVC Edge beading, Understructure C – Frames 1.6 mm thick M.S C-frame supporting the Top., Legs-Dia. 38.1 x 1.6 mm thick M.S ERW tube.	each	5	10600.00	53000.00
16	CHAIR : (for Library) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish	each	20	3100.00	62000.00
17	LIBRARY STEEL GLASS ALMIRAH : Sliding Door Unit,, Dimension- 900 mm (W) x 450 mm (D) (1830 mm H), Construction & Material -Rigid Knock down construction, Prime Quality CRCA Steel – 0.8 mm thick. Sliding Door Arrangement -Sliding Door with top hanging arrangement to prevent derailment. Each door provided with 2 Plastic roller having steel ball bearing for smooth movement of door & less noise. Unit should have Glass door for visibility of the content. Locking & handle - Snap on type aesthetically appealing die cast 5 Lever Cam lock for safe locking, Plastic flush & recessed handle Shelving - Height wise Adjustable Shelf Mounting, Uniformly Distributed Load Capacity per each full shelf is 80 kg approx & for half shelf it is 40 kg with Epoxy Polyester Powder coated to the thickness of 50 microns	each	10	21500.00	215000.00
18	COMPUTER TABLE : Computer Table of size 600 x 450 x 750 mm made of 18mm thick pre-laminated Board with PVC edge banding. Panel of 18mm thick Pre-Laminated Board with Single extrusion slide for Key Board fitted with 4 Nos. Caster	each	40	3150.00	126000.00

19	CHAIR : (for Sick room) Chair with Cushion chair on tubular frame with arm cantilever type made of dia 2.5cm X 14BG MS ERW round Tube with black powder coated paint and Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. Seat height 43cm, back height 80 cm.	each	1	4250.00	4250.00
20	STOOLS (for sick room) : Stool with 300 mm dia made of 1.00 mm thick CR Steel dully welded to the understructure and powder coated (DFT 40-60 microns) painting. Top of stool should be stainless steel	each	1	4822.00	4822.00
21	Single sheet bed (for Sick room) of standard ayush semi flower with Mattress	each	1	4750.00	4750.00
22	MIDBACK CHAIR : (for Principal) CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat shall be extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM . PNEUMATIC HEIGHT ADJUSTMENT . The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded and fitted with 5 nos. twin wheel castors.	each	1	7100.00	7100.00
23	TABLES : TABLES made of MS ERW round tube dia 25.4 x 1.2 mm thick with 25mm thick pre-laminated top size 900 x 590 x 750 with one drawer unit made of 0.5 mm thick CRCA sheet mild steel, all steel components shall be powder coated paint fitted with lock.	each	1	10100.00	10100.00
A.2 Fixture :					
1	Supplying erection and testing of approved make electric ceiling fan of double ball bearing AC-230-250 volts complete with standard down rod canopy, hanging shackle without regulator including connection with all necessary material complete.-1400mm Sweep	each	90	1925.00	173250.00
2	Supplying erection and testing of approved make wall Mounting fan of AC-230-250 volts with all accessories material complete.-400mm Sweep	each	8	2025.00	16200.00
3	Supplying erection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete.-225mm Sweep	each	8	1050.00	8400.00
4	Supplying and Instalation of 30 Ltr capacity water cooler voltas or equivalent make complete job as per direction of engineer encharge.	each	1	15100.00	15100.00

5	Supplying and Instalation of Kent water purifier with UV protection complete job as per direction of engineer encharge.	each	1	10100.00	10100.00
6	Supplying and testing and commissioning of colour camera (Dome Shaped) 800 TVL lookman make model segura SXD -1318 MT day night vision camera IR distance 15m all complete job.	each	12	5200.00	62400.00
7	Supplying and testing and commissioning of Digital video Recorder lookman make 24 Channel model segura SDVR -9224Standalone N/W DVR along with Hard disk HDD 1000GB all complete job.	each	1	52100.00	52100.00
8	Supplying and testing and commissioning of Switcher Comtech make model all complete job.	each	1	9500.00	9500.00
9	Supplying and testing and commissioning of colour TV monitors make sony/samsung 21" all complete job.	each	1	8400.00	8400.00
10	Supplying and testing and commissioning of cable for power I/P to camera laying of cable all complete job.	mtr	300	23.25	6975.00
11	Supplying and testing and commissioning of RJ-6 wire all complete job.	mtr	500	26.50	13250.00
12	Supplying andFixing of following size of PVC conduit along with accessories in surface /recess including cutting the wall and making good the same in case of recess conduit as required 25mm dia.	mtr	500	58.00	29000.00
	Provision for Play & Sports Equipments	LS			120000.00
	Total (Institutional Building)				3770497.00

B Boys Hostel & Girls Hostel

B.1 Furniture :

Supply of Following Steel Furniture of reputed make as per approved sample, including all taxes and FOR at site. (Quantity for both the hostel)

1	Single sheet bed (APO BED) : Bed made of MS ERW tube and CR steel sheet as per approved sample.	each	208	7500.00	1560000.00
2	Study Table : Table of size 600 x 450 x 750 mm made of 18mm thick pre-laminated Board with PVC edge banding. Panel of 18mm thick Pre-Laminated Board with Single drawer	each	200	3000.00	600000.00
3	CHAIR : (Study chair) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish	each	200	3100.00	620000.00
4	King Size Double Bed for Warden as per approved sample.	each	2	20300.00	40600.00

5	Library / Dining Table : TABLE 1800W Dimension-1800 x 900 x 740 made of Worktop- 25 mm Thick PLB Tops with 2mm Thick PVC Edge Beading, Understructure C – Frames 1.6 mm thick M.S C-Frame Supporting the Top., Legs- Dia. 38.1 x 1.6 mm thick M.S ERW tube	each	48	16100.00	772800.00
6	CHAIR : (Dining chair) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish	each	200	3100.00	620000.00
7	TABLE : (for warden)TABLE of size 1500 x 750 x 750 made up of 18mm thick pre-laminated Particle Board (PLB), all work surface edges are duly sealed with 2mm thick PVC edge banding, Rectangular Frame-Fabricated component in 1.2mm thick CRCA (IS:513), Finish: Powder coat (Epoxy polyester), Leg-Fabricated component in 38mmx25mmx1.2mm thick MS ERW Tube (IS:7138), Finish: Powder coat (Epoxy polyester)	each	2	14300.00	28600.00
8	MIDBACK CHAIR : (for Warden) CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat shall be extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM . PNEUMATIC HEIGHT ADJUSTMENT . The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOW ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded and fitted with 5 nos. twin wheel castors.	each	2	7100.00	14200.00
9	Visitor Chair - CHAIR with Cantilever type frame made of dia 2.54cm x 14 BG thick M.S.ERW tube and coated without arm. Seat/Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. BACK SIZE-38.1 cm (W) X 42.4 cm (D). The seat should be extra thick foam on front edge to give comfort to popliteal area.	each	4	5600.00	22400.00

10 Storwel Medium : Steel Almirah of size 1380 x 916 x 486 mm with two Shelves multi bend construction and inter locking design and full length over applying doors and sides. Three-way bolting mechanism. Spot welding & CO2 welding. Anticorrosion treated components, oven baked powder coating process. Material thickness 0.9mm.Top, Bottom, LH& RH sides and back material thickness= 0.9mm,Removable RH & LH main door with stiffeners material thickness= 0.9mm, 4 adjustable shelves of thickness= 0.8mm.

each 201 13100.00 2633100.00

12 Kitchen wall Storage of size 500 x 695 x381 mm as per approved sample

each 10 10000.00 100000.00

13 STOOLS : Stool with 300 mm dia made of 1.00 mm thick CR Steel dully welded to the understructure and powder coated (DFT 40-60 microns) painting. UNDERSTRUCTURE should be made of MS ERW tube (22 mm dia). All MS section should be powder coated in approved colour.

each 4 1130.00 4520.00

14 CHAIR : (Comman room) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish

each 50 3100.00 155000.00

B.2 Fixture :

1 Supplying erection and testing of approved make electric ceiling fan of double ball bearing AC-230-250 volts complete with standard down rod canopy, hanging shackle without regulator including connection with all necessary material complete.-1400mm Sweep

each 142 1925.00 273350.00

2 Supplying erection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete.-225mm Sweep

each 12 1050.00 12600.00

3 Supplying and Instalation of 30 Ltr capacity water cooler voltas or equivalent make complete job as per direction of engineer encharge.

each 2 15100.00 30200.00

4 Supplying and Instalation of Kent water purifier with UV protection complete job as per direction of engineer encharge.

each 2 10100.00 20200.00

5 Supplying and testing and commissioning of LED TV of 42" size of approved brand and model (SONY/ SAMSUNG/ or equivalent) all complete job.

each 2 30500.00 61000.00

Utencils (for both Hostels of 100 student each)

i) For preparation of food (Tawa & Tasla of different size, Pressure Cooker, etc)

LS 36000.00

ii) For Consumption of food (Plate (Thali), Half plate, Quarter plate, Bawls, Spoon, Fork, Service tray, etc)	LS	110000.00
GAS BURNER & CYLLENDER	LS	20000.00

Total (Both Hostel)

7734570.00

C Principal Quarter

C.1 Furniture :

Supply of Following Steel Furniture of reputed make as per approved sample, including all taxes and FOR at site.

1	MIDBACK CHAIR : CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat shall be extra thick foam on front edge to give comfort to popliteal area. Dimension BACK SIZE - 47.5 cm. (W) x 58.0cm. (H) & SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D). ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene. 4) CENTER TILT SYNCHRO MECHANISM . PNEUMATIC HEIGHT ADJUSTMENT -The pneumatic height adjustment has an adjustment stroke of 12.0 cm. TELESCOPIC BELLOWS ASSEMBLY: The bellow is 3 piece telescopic type and injection moulded in black Polypropylene. PEDESTAL ASSEMBLY: The pedestal is injection moulded and fitted with 5 nos. twin wheel castors.	each	1	7100.00	7100.00
2	Visitor Chair - CHAIR with Cantilever type frame made of dia 2.54cm x 14 BG thick M.S.ERW tube and coated without arm. Seat/Back made of chemically treated and seasoned wood, caned and furnished with melamine polish. BACK SIZE-38.1 cm (W) X 42.4 cm (D). The seat should be extra thick foam on front edge to give comfort to popliteal area.	each	4	5600.00	22400.00
3	OFFICE TABLE : TABLE made of MS ERW round tube dia 25.4 x 1.2mm thick with 25mm thick pre-laminated top size 1365W x 680D with both side drawer unit one side three drawers & another side two drawers made of 0.5 mm thick CRCA sheet mild steel, All steel components have powder coated paint fitted with both side drawer lock.	each	1	13200.00	13200.00

4	STEEL ALMIRAH : Steel Almirah of size 1980 x 916 x 486 mm with Four Shelves multi bend construction and inter locking design and full length over applying doors and sides. Three-way bolting mechanism. Spot welding & CO2 welding. Anticorrosion treated components, oven baked powder coating process. Material thickness 0.9mm.Top, Bottom, LH& RH sides and back material thickness= 0.9mm,Removable RH & LH main door with stiffeners material thickness= 0.9mm, 4 adjustable shelves of thickness= 0.8mm.	each	2	18500.00	37000.00
5	SOFA SET : 2-Seater Sofa as per approved sample	each	1	17800.00	17800.00
6	SOFA SET : 1-Seater Sofa as per approved sample	each	2	8800.00	17600.00
7	SOFA SET : Central Table with Glazed top of approved sample	each	1	8500.00	8500.00
8	DINING TABLE SET : Dining Table set with Glazed top with 6 no. Armless Dining Chair as per approved sample	each	1	35051.00	35051.00
9	CHAIR : (Study chair) CHAIR without arm with SEAT/BACK: The Seat and Back should be made of injection moulded high impact strength Polypropylene polymer compound with indoor grade UV resistance. SEAT SIZE: 52.5 cm. (W) x 53.2 cm. (D), * BACK SIZE : 51.6 cm. (W) x 40.5 cm. (H) .S.S. UNDERSTRUCTURE: The tubular welded frame made by Stainless Steel 202 grade tube dully buff polished to give shiny finish	each	1	3100.00	3100.00
10	King Size Double Bed for Warden as per approved sample.	each	1	20300.00	20300.00
C.2 Fixture :					
1	Supplying erection and testing of approved make electric ceiling fan of double ball bearing AC-230-250 volts complete with standard down rod canopy, hanging shackle without regulator including connection with all necessary material complete.-1400mm Sweep	each	5	1925.00	9625.00
2	Supplying erection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete.-225mm Sweep	each	3	1050.00	3150.00
Total (Pricipal Quarter)					194826.00
GRAND Total (Complete Furniture & Fixture)					11699893.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda**SOLAR PANEL****Based on Quotation rate.**

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	3	4	5	6	7
1	Supply, Installation & Commissioning of 5 kWp Solar Hybrid Power Plant set complete system including all cost for Solar Panel 250 Wp x 20 no., 10 no. 12 V- 150AH Battery, 5 kVA Inverter (Hybrid PCU), and other accessories complete with 5 year warranty.	per set	3 set	700000.00	2100000.00
Grand Total					2100000.00

Detailed Estimate and Abstract of Cost for Phase II work of DIET Campus at Noorsarai, Nalanda

Miscellaneous Work

Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
		Fire Fighting Work (Bucket type)				
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	0.37 cum	230.50	85.00
2	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.06 cum	204.40	12.00
3	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	0.81 sqm	253.80	206.00
4	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size)	cum	0.24 cum	2775.70	666.00
5	10.32.2	Steel work welded in built up sections/framed work including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel, etc. as required. In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	50.00 kg	76.70	3835.00
6	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.	sqm	5.40 sqm	22.80	123.00
7	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)	sqm	5.40 sqm	54.10	292.00
9		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
9.1		Local Sand	cum	0.06 cum	181.50	11.00
9.2		Coarse Sand	cum	0.11 cum	1206.30	133.00
9.3		Stone Chips	cum	0.23 cum	1022.20	235.00
9.4		Bricks	%o no.	30 no.	531.00	16.00
9.5		Cement	MT	0.050 MT	282.30	14.00
10		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
10.1		Bricks	%o no.	30 no.	279.30	8.00
10.2		Cement	MT	0.050 MT	319.00	16.00
		Total (Cost of one set)				5652.00
		Hence Cost for 6 set (for 3 Buildings)				33912.00
		SIGNAGES				

1		Providing and fixing of Signages of following type as per approved type and Design including all taxes etc. all complete.				
1.1		Signage in front of main Gate				
1.1.1	8.2.2.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,	sqm	6.00 sqm	3539.50	21237.00
		ACOUSTIC PANEL WORK				
1	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm all complete				
	12.45.4	Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.	sqm	400.20 sqm	1646.40	658889.00
		Open Air Theater type Earthen Seating platform				
1	2.8.1	Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	7.36 cum	230.50	1696.00
2	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	8.27 cum	204.40	1690.00
3	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	17.13 sqm	253.80	4348.00
4	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	1.71 cum	3323.10	5683.00
5	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand) Extra for Brick work in superstructure above plinth level upto floor V level	cum	5.94 cum	5003.90	29723.00
6	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	12.69 sqm	101.20	1284.00
7		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
7.1		Local Sand	cum	8.61 cum	181.50	1563.00
7.2		Coarse Sand	cum	2.49 cum	1206.30	3004.00
7.3		Stone Chips	cum	1.52 cum	1022.20	1554.00

7.4		Bricks	%o no.	2965 no.	531.00	1574.00
7.5		Cement	MT	1.000 MT	282.30	282.00
8		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
8.1		Bricks	%o no.	2965 no.	279.30	828.00
8.2		Cement	MT	1.000 MT	319.00	319.00
Development of Parking Area						
Size of car parking area = 25.00m. x 6.00m.						
2	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	22.50 cum	204.40	4599.00
3	11.79.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method to attain superior smooth finish using PU or equivalent moulds, laid in required Grey colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with coarse sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. all complete as per manufacturer's specifications & direction of E/I. 80 mm thick CC paver block of M-35 grade with approved colour design and pattern.	sqm	150.00 sqm	763.40	114510.00
4	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20mm nominal size)	cum	0.93 cum	3323.10	3090.00
7		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
8.3		Local Sand	cum	22.50 cum	181.50	4084.00
8.4		Coarse Sand	cum	0.41 cum	1206.30	495.00
8.5		Stone Chips	cum	0.83 cum	1022.20	848.00
8.7		Cement	MT	0.300 MT	282.30	85.00
9.2		Add extra cost of material for Patna Rural Zone w.r.t Gaya Zone (as per BCD SOR)				
9.4		Cement	MT	0.300 MT	319.00	96.00
Total (Scheduled Item)						895393.00
Non Schedule Items (on Tendered Rate)						
1		Supplying and installing Stainless steel Bucket of capacity 7.5 ltr for Fire Fighting Work with all fitting as per direction of E/I	each	48 no.	10.00	480.00

SIGNAGES						
2	AR	Labour and material cost of Steel letter including fixing at site all complete with taxes, etc.	/ letter	60.00 letter	322.00	19320.00
3		Signage in front of each Building	each	4 no.	3700.00	14800.00
4		Signage in front of each Room (made on SS plate)	each	185 no.	401.00	74185.00
5		Signage to show the direction of different buildings / activities (made on SS plate)	each	10 no.	840.00	8400.00
<i>For 6 no. Seating Benches for Gearden</i>						
6		Supplying and fixing of Seating benches made of wrought iron as per approved design, sample and make including all taxex, labour, material and tools for fixing at site as per direction all complete job.	each	6 no.	12020.00	72120.00
Total (Non Scheduled Item)						189305.00
Grand Total						1084698.00

Detailed Quantity calculation for Phase II work at DIET Campus at Noorsarai, Nalanda			
Sl. No.	Description	Details	Quantity
Construction of Guard Room			
1	Earthwork in excavation in Foundation	$4 \times 1.20 \times 1.20 \times 2.25 =$	12.96 cum
	Total		12.96 cum
	Filling available excavated earth (excluding rock) in trenches, plinth, Qty same as E/W excavation		12.96 cum
			12.96 cum
	Supplying and filling in plinth with local sand and under floors including,	$4 \times 1.20 \times 1.20 \times 0.08 =$	0.46 cum
		$1 \times 3.05 \times 3.05 \times 1.20 =$	11.16 cum
		=	11.62 cum
	Providing Designation 100A Brick flat Soling	$4 \times 1.20 \times 1.20 =$	5.76 sqm
		$4 \times 3.30 \times 0.25 =$	3.30 sqm
		$1 \times 3.05 \times 3.05 =$	9.30 sqm
		$1 \times 1.20 \times 1.00 =$	1.20 sqm
		=	19.56 sqm
	PCC 1:3:6	$4 \times 1.20 \times 1.20 \times 0.075 =$	0.43 cum
		$1 \times 3.05 \times 3.05 \times 0.075 =$	0.70 cum
		$1 \times 1.20 \times 1.00 \times 0.075 =$	0.09 cum
		=	1.22 cum
	RCC 1:1.5:3 in Foundation & Plinth	$4 \times 1.20 \times 1.20 \times 0.75 =$	4.32 cum
		$4 \times 3.30 \times 0.25 \times 0.30 =$	0.99 cum
		$1 \times 3.20 \times 0.25 \times 0.300 =$	0.24 cum
		=	5.55 cum
	RCC 1:1.5:3 in Column	$4 \times 0.30 \times 0.30 \times 6.75 =$	2.43 cum
		=	2.43 cum
	RCC 1:1.5:3 in beam, Lintel & Slab	$4 \times 3.30 \times 0.25 \times 0.20 =$	0.66 cum
		$4 \times 3.30 \times 0.25 \times 0.30 =$	0.99 cum
		$1 \times 3.96 \times 3.96 \times 0.15 =$	2.35 cum
		$2 \times 2.50 \times 0.45 \times 0.08 =$	0.17 cum
		$1 \times 1.20 \times 1.00 \times 0.10 =$	0.12 cum
		=	4.29 cum
	Brick work with bricks of class designation 100A in Foundation and	$4 \times 3.05 \times 0.25 \times 1.20 =$	3.66 cum
		$1 \times 1.00 \times 1.00 \times 0.60 =$	0.60 cum
		$1 \times 1.00 \times 1.00 \times 0.30 =$	0.30 cum
		=	4.56 cum
	Brick work with bricks of class designation 100A in superstructure in	$4 \times 3.05 \times 0.25 \times 3.15 =$	9.61 cum
		$1 \times 1.00 \times 0.25 \times 2.10 =$	-0.53 cum

	$2 \times 2.00 \times 0.25 \times 0.75 =$	-0.75 cum
	=	8.33 cum
12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	$4 \times 3.05 \times 3.05 =$	37.21 sqm
	=	37.21 sqm
20mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	$4 \times 3.56 \times 4.65 =$	66.22 sqm
	=	66.22 sqm
6mm thick Cement plaster in ceiling of mix 1:4 (1 cement : 4 coarse)	$1 \times 3.05 \times 3.05 =$	9.30 sqm
	=	9.30 sqm
Kotah stone slab flooring	$1 \times 3.05 \times 3.05 =$	9.30 sqm
	$1 \times 1.00 \times 1.00 =$	1.00 sqm
	$3 \times 1.00 \times 0.45 =$	1.35 sqm
	$2 \times 2.50 \times 0.25 =$	1.25 sqm
	$4 \times 3.05 \times 0.15 =$	1.83 sqm
	=	14.73 sqm
Providing and fixing T-iron frames for door choukhat		
Door measured weight		
D (1.00 m x 2.1 m)		18.20 kg
	=	18.20 kg
Providing and fixing Flush door shutter		
D (1.00 m x 2.1 m)	$1 \times 1.00 \times 2.10 =$	2.10 sqm
	=	2.10 sqm
Providing and fixing Gazed Steel window (sliding type)		
W	$2 \times 2.00 \times 0.75 =$	3.00 sqm
	=	3.00 sqm
Providing and fixing M S grill		
		54.00 kg
	=	54.00 kg
Providing M S Reinforcement		
TMTC-500 8mm dia		1200.00 kg
TMTC-500 12mm dia		1000.00 kg
Centering and shuttering including strutting, propping etc. and removal		
PCC	$16 \times 1.20 \times 0.08 =$	1.44 sqm
	$1 \times 3.40 \times 0.08 =$	0.26 sqm
RCC	$16 \times 1.20 \times 0.75 =$	14.40 sqm
	=	16.10 cum

Centering and shuttering including strutting, propping etc. and removal of form for Lintel, beams, plinth beams, girders, bressumers and

PCC	4 x 3.30 x 0.85 =	11.22 sqm
	1 x 3.20 x 0.85 =	2.72 sqm
RCC	4 x 3.30 x 0.60 =	7.92 sqm
	4 x 3.30 x 0.60 =	7.92 sqm
	=	29.78 cum

Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts

PCC	4 x 1.20 x 6.75 =	32.40 sqm
	=	32.40 cum

Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access

RCC	1 x 3.96 x 3.96 =	15.68 sqm
	2 x 2.50 x 0.45 =	2.25 sqm
	1 x 1.20 x 1.00 =	1.20 sqm
	=	19.13 cum

Open Air Theater type Earthen Seating platform

1 E/W excavation

1 x 17.89 x 0.45 x 0.43 =	3.46 cum
1 x 6.10 x 0.45 x 0.43 =	1.18 cum
1 x 3.95 x 0.45 x 0.43 =	0.76 cum
1 x 2.11 x 0.45 x 0.43 =	0.41 cum
2 x 4.00 x 0.45 x 0.43 =	1.55 cum
=	7.36 sqm

2 Supplying and filling in plinth with local sand and under floors including,

1 x 17.89 x 0.45 x 0.10 =	0.81 cum
1 x 6.10 x 0.45 x 0.10 =	0.27 cum
1 x 3.95 x 0.45 x 0.10 =	0.18 cum
1 x 2.11 x 0.45 x 0.10 =	0.09 cum
2 x 4.00 x 0.45 x 0.10 =	0.36 cum
1 x 8.95 x 0.50 x 0.60 =	2.69 cum
1 x 7.12 x 0.75 x 0.45 =	2.40 cum
1 x 5.03 x 0.75 x 0.30 =	1.13 cum
1 x 3.04 x 0.75 x 0.15 =	0.34 cum
=	8.27 cum

3 Brick Flat Soling

1 x 17.89 x 0.45 =	8.05 sqm
1 x 6.10 x 0.45 =	2.75 sqm
1 x 3.95 x 0.45 =	1.78 sqm
1 x 2.11 x 0.45 =	0.95 sqm
2 x 4.00 x 0.45 =	3.60 sqm
=	17.13 sqm

4 PCC 1:2:4

1 x 17.89 x 0.45 x 0.10 =	0.81 cum
1 x 6.10 x 0.45 x 0.10 =	0.27 cum

$$1 \times 3.95 \times 0.45 \times 0.10 = 0.18 \text{ cum}$$

$$1 \times 2.11 \times 0.45 \times 0.10 = 0.09 \text{ cum}$$

$$2 \times 4.00 \times 0.45 \times 0.10 = 0.36 \text{ cum}$$

$$= \mathbf{1.71 \text{ cum}}$$

5 Brick work in CM 1:6

$$1 \times 19.89 \times 0.25 \times 0.75 = 3.73 \text{ cum}$$

$$1 \times 8.18 \times 0.25 \times 0.60 = 1.23 \text{ cum}$$

$$1 \times 5.95 \times 0.25 \times 0.45 = 0.67 \text{ cum}$$

$$1 \times 4.11 \times 0.25 \times 0.30 = 0.31 \text{ cum}$$

$$= \mathbf{5.94 \text{ cum}}$$

6 12 mm Cement Plaster in CM 1:6

$$1 \times 12.48 \times 0.75 = 9.36 \text{ sqm}$$

$$2 \times 1.00 \times 0.60 = 1.20 \text{ sqm}$$

$$2 \times 1.00 \times 0.45 = 0.90 \text{ sqm}$$

$$1 \times 4.11 \times 0.30 = 1.23 \text{ sqm}$$

$$= \mathbf{12.69 \text{ sqm}}$$

Development of Parking Area

Size of car parking area =
25.00m. x 6.00m.

2 Supplying and filling in plinth with local sand and under floors including,

$$1 \times 25.00 \times 6.00 \times 0.15 = 22.50 \text{ cum}$$

$$= \mathbf{22.50 \text{ cum}}$$

3 Interlocking Cement Concrete paver blocks

$$1 \times 25.00 \times 6.00 = 150.00 \text{ sqm}$$

$$= \mathbf{150.00 \text{ sqm}}$$

4 PCC 1:2:4

$$2 \times 31.00 \times 0.15 \times 0.10 = 0.93 \text{ cum}$$

$$= \mathbf{0.93 \text{ cum}}$$

Construction of Approach Road / Pathways

Supplying and filling in plinth with local sand and under floors including,

$$1 \times 292.00 \times 3.05 \times 0.10 = 89.06 \text{ cum}$$

$$1 \times 292.00 \times 1.20 \times 0.30 = 105.12 \text{ cum}$$

$$= \mathbf{194.18 \text{ cum}}$$

Providing Designation 100A Brick flat Soling

$$1 \times 292.00 \times 3.05 = 890.60 \text{ sqm}$$

$$= \mathbf{890.60 \text{ sqm}}$$

Providing Designation 100A one Brick on Edge Soling

$$1 \times 292.00 \times 3.05 = 890.60 \text{ sqm}$$

$$= \mathbf{890.60 \text{ sqm}}$$

PCC 1:2:4

$$1 \times 292.00 \times 3.05 \times 0.150 = 133.59 \text{ cum}$$

$$= \underline{\underline{133.59 \text{ cum}}}$$

Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete

PCC

$$2 \times 292.00 \times 0.15 = 87.60 \text{ sqm}$$

$$= \underline{\underline{87.60 \text{ sqm}}}$$

Providing Dry Rubble flooring with approved size and type of Rubble

$$2 \times 292.00 \times 0.60 \times 0.15 = 52.56 \text{ cum}$$

$$= \underline{\underline{52.56 \text{ cum}}}$$

Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of

$$2 \times 292.00 = 584.00 \text{ m}$$

$$= \underline{\underline{584.00 \text{ m}}}$$

Construction of Main Gate

1 Earthwork in excavation in Foundation

$$2 \times 2.15 \times 2.15 \times 1.78 = 16.46 \text{ cum}$$

Total

$$\underline{\underline{16.46 \text{ cum}}}$$

Filling available excavated earth (excluding rock) in trenches, plinth, Qty same as E/W excavation

$$16.46 \text{ cum}$$

$$\underline{\underline{16.46 \text{ cum}}}$$

Supplying and filling in plinth with local sand and under floors including,

$$2 \times 2.15 \times 2.15 \times 0.10 = 0.92 \text{ cum}$$

$$= \underline{\underline{0.92 \text{ cum}}}$$

Providing Designation 100A Brick flat Soling

$$2 \times 2.00 \times 2.00 = 8.00 \text{ sqm}$$

$$= \underline{\underline{8.00 \text{ sqm}}}$$

PCC 1:3:6

$$2 \times 2.00 \times 2.00 \times 0.100 = 0.80 \text{ cum}$$

$$= \underline{\underline{0.80 \text{ cum}}}$$

RCC 1:1:2 in Foundation & Plinth

$$2 \times 1.80 \times 1.80 \times 0.15 = 0.97 \text{ cum}$$

$$2 \times 1.88(\text{ave. area}) \times 0.40 = 1.50 \text{ cum}$$

$$= \underline{\underline{2.47 \text{ cum}}}$$

RCC 1:1:2 in Column

$$2 \times 1.00 \times 1.00 \times 0.95 = 1.90 \text{ cum}$$

$$2 \times 2 \times 1.00 \times 0.25 \times 5.00 = 5.00 \text{ cum}$$

$$2 \times 2.50 \times 1.00 \times 0.30 = 1.50 \text{ cum}$$

$$= \underline{\underline{8.40 \text{ cum}}}$$

Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass

For PCC

$$2 \times 8.00 \times 0.10 = 1.60 \text{ sqm}$$

For RCC

$$2 \times 7.20 \times 0.15 = 2.16 \text{ sqm}$$

$$= \underline{\underline{3.76 \text{ sqm}}}$$

Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts

2 x 4.00 x 0.95	=	7.60 sqm
2 x 2 x 2.50 x 5.00	=	50.00 sqm
2 x 2.50 x 1.00	=	5.00 sqm
2 x 9.00 x 0.30	=	5.40 sqm
	=	68.00 sqm

Reinforcement for RCC Work

Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass

TMTC-500 8mm dia	=	600.00 kg
TMTC-500 12mm dia	=	1350.00 kg

Brick work with bricks of class designation 100A in superstructure in

2 x 2 x 0.50 x 0.25 x 5.00	=	2.50 cum
	=	2.50 cum

12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)

2 x 2 x 0.50 x 5.00	=	10.00 sqm
	=	10.00 sqm

Granite stone slab cladding

2 x 4.40 x 5.10	=	44.88 sqm
2 x 2 x 2.50 x 0.30	=	3.00 sqm
2 x 2.50 x 1.00	=	5.00 sqm
2 x 1.60 x 1.00	=	3.20 sqm
2 x 0.30 x 1.00	=	0.60 sqm
2 x 0.65 x 1.00	=	1.30 sqm
	=	57.98 sqm

M S Grill gate

	=	580.00 kg
	=	580.00 kg

Synthetic enamel paint over Steel surface

1 x 4.50 x 3.00	=	13.50 sqm
	=	13.50 sqm

DETAILED ESTIMATE OF BOUNDARY WALL

Sl. No.	Item No.	Item of Work	Location	Description	Length	Breadth	Height	Nos	Quantity	unit	
					L	B	H/Depth	Nos			
1 EARTHWORK IN EXCAVATION											
	2.8.1	Earthwork in excavation in areas(exceeding 30cm in depth. 1.5m in width as well es 10sqm on plan) including dressing of sides and ramming of bottom,lift upto 1.5 including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m	Footing	F-1 &F-2	1.20	0.80	1.45	12	16.70		
				F-3	1.20	1.08	1.45	4	7.52		
			Below Tie Beam		60.00	0.25	0.25	1	3.75		
										27.97 cu.m	
2 EARTH FILLING											
	2.26	Filling available excavated earth (excluding rock) in trenches and plinth side of foundation etc. in layers not exceeding 20cm. thick in depth consolidating each deposited layer by ramming and watering lead.	Qty same as excavation	Excavated Qty.				27.970	27.97		
											27.97 cu.m
3 SAND FILLING											
	2.28	Supplying and filling in plinth with local sand and under floots including watering, ramming consolidating and dressing complete.	In Foundation	F-1 &F-2	1.200	0.800	0.100	12	1.15		
				F-3	1.200	1.080	0.100	4	0.52		
										1.67 cu.m	
4 FLAT BRICK SOLING											
	11.72	Providing designation 100 A 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,	In Foundation	F-1 &F-2	1.200	0.800		12	11.52		
				F-3	1.200	1.080		4	5.18		
			Below Tie Beam		60.00	0.250		1	15.00		
									31.70 sq.m		
5 P.C.C.											
	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- all work upto plinth level. 1:3:6 (1cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	In Foundation	F-1 &F-2	1.200	0.800	0.100	12	1.15		
				F-3	1.200	1.080	0.100	4	0.52		
									(A)	1.67	
									(A)	1.670 cu.m	
6 R.C.C. WORK in Foundation & Plinth											
	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1 cement:1 coarse sand:2 graded stone aggregate 20mm nominal size)	Raft In Foundation	F-1 &F-2	1.200	0.800	0.150	12	1.73		
			Pedestal In Foundation	F-1 &F-2	1.050	0.600	0.150	12	1.13		
			Column up to tie beam	F-1 &F-2	0.250	0.300	0.750	12	0.68		
			Raft In Foundation	F-3	1.200	1.080	0.150	4	0.78		
			Pedestal In Foundation	F-3	1.050	0.800	0.150	4	0.50		
			Column up to tie beam	F-3	0.250	0.300	0.750	8	0.45		
										5.27 cu.m	
R.C.C. WORK ABOVE TIE LVL.											
	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and struts etc upto floor ive level excluding the cost of centring, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1 cement: 1 coarse sand: 2 graded	Wall	Stiffner	0.250	0.300	2.100	20	3.15		
				Tie beam	60.00	0.250	0.250	1	3.75		
				At top	60.00	0.300	0.100	1	1.80		
					180.000	0.300	0.100	1	5.40		
					180.000	0.250	0.100	1	4.50		
										18.60 cu.m	
BRICK WORK											
	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in superstructure above plinth level upto five floor cement mortar 1:6 (1cement 6 coarse sand)	Wall		60.00	0.250	1.500	1	22.50		
					180.000	0.250	0.450	1	20.25		
									(A)	42.75	

		6 coarse sand)	Less	Stiffner	0.250	0.250	1.500	0	0.00	
								(B)	0.00	
								(A - B)	42.75	cu.m
PLASTER WORK										
9	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)		Wall	60.00		1.600	2	192.00	
					60.00		0.350	1	21.00	
				Stiffner	1.100		0.600	0	0.00	
					180.000		1.600	2	576.00	
					180.000		0.350	1	63.00	
									852.00	
									852.00	sq.m
FINISHING WORK										
10	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : 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) New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over a nd including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)		Wall						852.00 sq.m
11	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved	Steel work		240.00		0.600	1	144.00	
									144.000	sq.m
12	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give	Steel work		240.00		0.600	1	144.00	
									144.000	sq.m
STEEL WORK										
13	9.48.1	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc.all complete	Grill	Over Boundry	60.00		0.60	1	36.00	sq.m
					180.00		0.600	1	108.00	sq.m
									Per sq m. @ 25kg	3600.00
									Total	3600.00 Kgs.
14	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.								
	5.22.7A	TMTC-500 -8mm dia								1450 Kgs.
	5.22.7B	TMTC-500 -10mm dia								750 Kgs.
	5.22.7C	TMTC-500 -12mm dia								1600 Kgs.
SHUTTERING										
15	5.9.1	Centring and shuttering including strutting, propping etc. and removal of form for foundation, footings, basees of columns etc. for mass concrete.	RCC	F-1 &F-2	0.800		0.150	24	2.88	
				F-1 &F-2	1.200		0.150	24	4.32	
				F-3	1.200		0.150	8	1.44	
				F-3	1.080		0.150	8	1.30	
			PCC		4.000		0.100	12	4.80	
			PCC		4.560		0.100	4	1.82	
										16.56 sq.m
16	5.9.6	Centring and shuttering including strutting, propping etc. and removal of form for columns, pillars, piers, abutments, posts and struts.	Above TB	Stiffner	1.10		2.10	20	46.20	
			Below TB		1.10		0.75	20	16.50	
										62.70 sq.m
17	5.9.5	Centring and shuttering including strutting, propping etc. and removal of form for lintel, beams, plinth beams, griders, bressumers and cantilevers.		TB	60.00		0.250	2	30.000	
				Top	60.00		0.250	1	15.000	
					180.00		0.100	2	36.000	
					180.00		0.100	2	36.000	
										117.000 sq.m
18	CARRIAGE OF MATERIALS									
	Type of materials									
	Cement								36.950	MT
	Coarse Sand								82.49	cum
	Local Sand								4.73	cum
	Stone Chips								49.50	cum
	Brick								51743	Nos.
	Steel								3.800	MT
	Add Extra Cost									
	Brick								51743.0	Nos.
	Cement								36.950	MT

Material Statement (for carriage purpose)							
Sl. no.	Particulars of Item	Quantity	Cement in kg.	Sand in cum.	Stone chips in cum.	Bricks in no.	Local Sand in cum.
Construction of Boundary Wall							
1	Brick flat soling	31.70 sqm.				1023	0.63
2	Brick work in CM (1:6)	42.75 cum.	2671.88	11.12		21119	
3	12 mm Cement Plaster in CM (1:6)	852.00 sqm.	3067.20	12.78			
4	PCC M100 (1:3:6)	1.67 cum.	367.40	0.78	1.57		
5	RCC M250	23.87 cum.	9786.70	10.14	20.29		
6	Sand in filling	1.67 cum.					1.67
Total			15893.18	34.82	21.86	22142	2.30
			15.900				
			MT				
APPROACH ROAD, PATHWAYS & DRAIN							
1	Brick edge soling	890.60 sqm.				47914	35.62
2	Brick flat soling	890.60 sqm.				28749	17.81
3	PCC M150 (1:2:4)	133.59 cum.	42748.80	59.45	118.90		
4	Sand in filling	194.18 cum.					194.18
Total			42748.80	59.45	118.90	76663	247.61
			42.750				
			MT				

Detailed Quantity calculation (DIET, Principal Quarter building)						
Sl. No.	Description	D	Details		Quantity	
1	Earthwork in excavation in areas (exceeding 30cm in depth. 1.5m in width as well as 10sqm on plan) including dressing of sides and ramming of bottom, lift upto 1.5 including getting out the excavated soil and disposal of surplus soil as directed within a lead of 50m.					
	Foundation					
	F-1		1 x 2.90 x 3.40 x 2.23	=	21.94	cum
	F-2		1 x 3.25 x 4.00 x 2.23	=	28.93	cum
	F-3		1 x 3.25 x 3.30 x 2.23	=	23.86	cum
	F-4		1 x 3.00 x 9.20 x 2.23	=	61.41	cum
	F-5		2 x 3.25 x 3.25 x 2.23	=	47.00	cum
	F-6		2 x 3.00 x 4.40 x 2.23	=	58.74	cum
	F-7		1 x 3.70 x 4.00 x 2.23	=	32.93	cum
	F-8		1 x 3.30 x 8.00 x 2.23	=	58.74	cum
	F-9		1 x 3.40 x 9.40 x 2.23	=	71.11	cum
	F-10		1 x 3.40 x 5.00 x 2.23	=	37.83	cum
	F-11		1 x 9.30 x 5.00 x 2.23	=	103.46	cum
	F-12		1 x 3.30 x 3.50 x 2.23	=	25.70	cum
	F-13		1 x 3.30 x 3.30 x 2.23	=	24.23	cum
	F-14		1 x 3.40 x 3.10 x 2.23	=	23.45	cum
	F-15		1 x 4.00 x 3.10 x 2.23	=	27.59	cum
	TB-1		2 x 1.75 x 0.25 x 0.53	=	0.46	cum
	TB-2		1 x 23.68 x 0.25 x 0.53	=	3.11	cum
	TB-3		1 x 3.60 x 0.25 x 0.53	=	0.47	cum
	TB-4		1 x 16.48 x 0.25 x 0.53	=	2.16	cum
	TB-5		1 x 3.60 x 0.25 x 0.53	=	0.47	cum
	TB-6		2 x 8.76 x 0.25 x 0.53	=	2.30	cum
	TB-7		3 x 0.51 x 0.25 x 0.53	=	0.20	cum
	TB-8		1 x 4.87 x 0.25 x 0.53	=	0.64	cum
	TB-9		1 x 4.37 x 0.25 x 0.53	=	0.57	cum
	Steps		1 x 2.80 x 1.27 x 0.30	=	1.07	cum
			1 x 3.35 x 1.27 x 0.30	=	1.27	cum
			1 x 3.05 x 1.27 x 0.30	=	1.16	cum
			1 x 3.19 x 1.27 x 0.30	=	1.22	cum
	Ramp		2 x 3.35 x 0.25 x 0.30	=	0.50	cum
			1 x 1.27 x 0.25 x 0.30	=	0.10	cum
			2 x 3.05 x 0.25 x 0.30	=	0.46	cum
			1 x 1.27 x 0.25 x 0.30	=	0.10	cum
			2 x 3.15 x 0.25 x 0.30	=	0.47	cum
			1 x 1.25 x 0.25 x 0.30	=	0.09	cum
	Total				663.74	cum
2	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50m and lift upto 1.5m					
	Bldg Area		1 x 220.00	=	220.00	sqm
	Total				220.00	sqm
3	Filling available excavated earth (excluding rock) in trenches and plinth side of foundation etc. in layers not exceeding 20cm. thick in depth consolidating each deposited layer by ramming and watering lead.					
			Total excavated quantity	=	663.74	cum
			Less qty of PCC	=	-20.93	cum

Sl. No.	Description	D	Details	Quantity
			Less qty of Sand =	-31.59 cum
			Less qty of Brick soling. =	-38.15 cum
	Total			878.40 cum
4	Supplying and filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.			
	Foundation	F-1	1 x 2.90 x 3.40 x 0.10 =	0.99 cum
		F-2	1 x 3.25 x 4.00 x 0.10 =	1.30 cum
		F-3	1 x 3.25 x 3.30 x 0.10 =	1.07 cum
		F-4	1 x 3.00 x 9.20 x 0.10 =	2.76 cum
		F-5	2 x 3.25 x 3.25 x 0.10 =	2.11 cum
	Foundation	F-6	2 x 3.00 x 4.40 x 0.10 =	2.64 cum
		F-7	1 x 3.70 x 4.00 x 0.10 =	1.48 cum
		F-8	1 x 3.30 x 8.00 x 0.10 =	2.64 cum
		F-9	1 x 3.40 x 9.40 x 0.10 =	3.20 cum
		F-10	1 x 3.40 x 5.00 x 0.10 =	1.70 cum
		F-11	1 x 9.30 x 5.00 x 0.10 =	4.65 cum
	Foundation	F-12	1 x 3.30 x 3.50 x 0.10 =	1.16 cum
		F-13	1 x 3.30 x 3.30 x 0.10 =	1.09 cum
		F-14	1 x 3.40 x 3.10 x 0.10 =	1.05 cum
		F-15	1 x 4.00 x 3.10 x 0.10 =	1.24 cum
		TB-1	2 x 1.75 x 0.25 x 0.10 =	0.09 cum
		TB-2	1 x 23.65 x 0.25 x 0.10 =	0.59 cum
		TB-3	1 x 3.60 x 0.25 x 0.10 =	0.09 cum
		TB-4	1 x 16.48 x 0.25 x 0.10 =	0.41 cum
		TB-5	1 x 3.60 x 0.25 x 0.10 =	0.09 cum
		TB-6	2 x 8.70 x 0.25 x 0.10 =	0.44 cum
		TB-7	3 x 0.51 x 0.25 x 0.10 =	0.04 cum
	Below plinth beam	TB-8	1 x 4.85 x 0.25 x 0.10 =	0.12 cum
		TB-9	1 x 4.37 x 0.25 x 0.10 =	0.11 cum
		Steps	1 x 2.80 x 1.27 x 0.15 =	0.53 cum
		Ramp	1 x 3.35 x 1.27 x 0.15 =	0.64 cum
			1 x 3.05 x 1.27 x 0.15 =	0.58 cum
			1 x 3.19 x 1.27 x 0.15 =	0.61 cum
			2 x 3.35 x 0.25 x 0.15 =	0.25 cum
			1 x 1.27 x 0.25 x 0.15 =	0.05 cum
			2 x 3.05 x 0.25 x 0.15 =	0.23 cum
			1 x 1.27 x 0.25 x 0.15 =	0.05 cum
			2 x 3.15 x 0.25 x 0.15 =	0.24 cum
			1 x 1.25 x 0.25 x 0.15 =	0.05 cum
	In plinth		Bed Room	2 x 3.35 x 4.27 x 0.90 =
		Bed Room	2 x 3.35 x 4.12 x 0.90 =	24.81 cum
		Balcony	1 x 3.63 x 1.22 x 0.90 =	3.98 cum
		Balcony	2 x 3.05 x 1.22 x 0.90 =	6.69 cum
		Dining Room	2 x 3.05 x 4.27 x 0.90 =	23.38 cum
		Toilet Area	2 x 1.50 x 2.10 x 0.90 =	5.67 cum
		Toilet Area	2 x 1.55 x 2.10 x 0.90 =	5.84 cum
		Kitchen	2 x 2.10 x 2.98 x 0.90 =	11.25 cum
		Living Room	2 x 3.55 x 4.27 x 0.90 =	27.25 cum
		Guest Room	1 x 3.85 x 3.35 x 0.90 =	11.59 cum
		Stair Room	1 x 4.27 x 2.25 x 0.30 =	2.88 cum
	Total			183.48 cum

Sl. No.	Description	D	Details	Quantity
5	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.			
	Foundation	F-1	1 x 2.90 x 3.40 =	9.86 sqm
		F-2	1 x 3.25 x 4.00 =	13.00 sqm
		F-3	1 x 3.25 x 3.30 =	10.73 sqm
		F-4	1 x 3.00 x 9.20 =	27.60 sqm
		F-5	2 x 3.25 x 3.25 =	21.13 sqm
	Foundation	F-6	2 x 3.00 x 4.40 =	26.40 sqm
		F-7	1 x 3.70 x 4.00 =	14.80 sqm
		F-8	1 x 3.30 x 8.00 =	26.40 sqm
		F-9	1 x 3.40 x 9.40 =	31.96 sqm
		F-10	1 x 3.40 x 5.00 =	17.00 sqm
		F-11	1 x 9.30 x 5.00 =	46.50 sqm
	Foundation	F-12	1 x 3.30 x 3.50 =	11.55 sqm
		F-13	1 x 3.30 x 3.30 =	10.89 sqm
		F-14	1 x 3.40 x 3.10 =	10.54 sqm
		F-15	1 x 4.00 x 3.10 =	12.40 sqm
		TB-1	2 x 1.75 x 0.25 =	0.88 sqm
		TB-2	1 x 23.65 x 0.25 =	5.91 sqm
		TB-3	1 x 3.60 x 0.25 =	0.90 sqm
		TB-4	1 x 16.48 x 0.25 =	4.12 sqm
		TB-5	1 x 3.60 x 0.25 =	0.90 sqm
		TB-6	2 x 8.70 x 0.25 =	4.35 sqm
		TB-7	3 x 0.51 x 0.25 =	0.38 sqm
	Below plinth beam	TB-8	1 x 4.85 x 0.25 =	1.21 sqm
		TB-9	1 x 4.37 x 0.25 =	1.09 sqm
		Steps	1 x 2.80 x 1.27 =	3.56 sqm
		Ramp	1 x 3.35 x 1.27 =	4.25 sqm
			1 x 3.05 x 1.27 =	3.87 sqm
			1 x 3.19 x 1.27 =	4.05 sqm
			2 x 3.35 x 0.25 =	1.67 sqm
			1 x 1.27 x 0.25 =	0.32 sqm
			2 x 3.05 x 0.25 =	1.52 sqm
			1 x 1.27 x 0.25 =	0.32 sqm
			2 x 3.15 x 0.25 =	1.58 sqm
			1 x 1.26 x 0.25 =	0.31 sqm
	In plinth		Bed Room	2 x 3.35 x 4.27 =
		Bed Room	2 x 3.35 x 4.12 =	27.57 sqm
		Balcony	1 x 3.63 x 1.22 =	4.42 sqm
		Balcony	2 x 3.05 x 1.22 =	7.43 sqm
		Dining Room	2 x 3.05 x 4.27 =	25.97 sqm
		Toilet Area	2 x 1.50 x 2.10 =	6.30 cum
		Toilet Area	2 x 1.55 x 2.10 =	6.49 cum
		Kitchen	2 x 2.14 x 2.98 =	12.73 cum
		Living Room	2 x 3.55 x 4.27 =	30.28 cum
		Guest Room	1 x 3.85 x 3.35 =	16.88 cum
		Stair Room	1 x 4.29 x 2.25 =	9.65 cum
		Total		508.60 sqm

Sl. No.	Description	D	Details		Quantity
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level.1:2:4(1 Cement: 2 coarse sand:4				
	In Flooring base				cum
	Foundation	F-1	1 x 2.90 x 3.40 x 0.08	=	0.74 cum
		F-2	1 x 3.25 x 4.00 x 0.08	=	0.98 cum
		F-3	1 x 3.25 x 3.30 x 0.08	=	0.80 cum
		F-4	1 x 3.00 x 9.20 x 0.08	=	2.07 cum
		F-5	2 x 3.25 x 3.25 x 0.08	=	1.58 cum
	Foundation	F-6	2 x 3.00 x 4.40 x 0.08	=	1.98 cum
		F-7	1 x 3.70 x 4.00 x 0.08	=	1.11 cum
		F-8	1 x 3.30 x 8.00 x 0.08	=	1.98 cum
		F-9	1 x 3.40 x 9.40 x 0.08	=	2.40 cum
		F-10	1 x 3.40 x 5.00 x 0.08	=	1.28 cum
		F-11	1 x 9.30 x 5.00 x 0.08	=	3.49 cum
	Foundation	F-12	1 x 3.30 x 3.50 x 0.08	=	0.87 cum
		F-13	1 x 3.30 x 3.30 x 0.08	=	0.82 cum
		F-14	1 x 3.40 x 3.10 x 0.08	=	0.79 cum
		F-15	1 x 4.00 x 3.10 x 0.08	=	0.93 cum
		TB-1	2 x 1.75 x 0.25 x 0.08	=	0.07 cum
		TB-2	1 x 23.65 x 0.25 x 0.08	=	0.44 cum
		TB-3	1 x 3.60 x 0.25 x 0.08	=	0.07 cum
		TB-4	1 x 16.48 x 0.25 x 0.08	=	0.31 cum
		TB-5	1 x 3.60 x 0.25 x 0.08	=	0.07 cum
		TB-6	2 x 8.70 x 0.25 x 0.08	=	0.33 cum
		TB-7	3 x 0.51 x 0.25 x 0.08	=	0.03 cum
	Below plinth beam	TB-8	1 x 4.85 x 0.25 x 0.08	=	0.09 cum
		TB-9	1 x 4.37 x 0.25 x 0.08	=	0.08 cum
		Steps	1 x 2.80 x 1.27 x 0.08	=	0.27 cum
			1 x 3.35 x 1.27 x 0.08	=	0.32 cum
			1 x 3.05 x 1.27 x 0.08	=	0.29 cum
			1 x 3.19 x 1.27 x 0.08	=	0.30 cum
		Ramp	2 x 3.35 x 0.25 x 0.08	=	0.13 cum
			1 x 1.27 x 0.25 x 0.08	=	0.02 cum
			2 x 3.05 x 0.25 x 0.08	=	0.11 cum
			1 x 1.27 x 0.25 x 0.08	=	0.02 cum
			2 x 3.15 x 0.25 x 0.08	=	0.12 cum
			1 x 1.26 x 0.25 x 0.08	=	0.02 cum
		Bed Room	2 x 3.35 x 4.27 x 0.075	=	2.14 cum
		Bed Room	2 x 3.35 x 4.12 x 0.075	=	2.07 cum
		Balcony	1 x 3.63 x 1.22 x 0.075	=	0.33 cum
		Balcony	2 x 3.05 x 1.22 x 0.075	=	0.56 cum
		Dining Room	2 x 3.05 x 4.27 x 0.075	=	1.95 cum
		Toilet Area	2 x 1.50 x 2.10 x 0.075	=	0.47 cum
		Toilet Area	2 x 1.55 x 2.10 x 0.075	=	0.49 cum
		Kitchen	2 x 2.14 x 2.98 x 0.075	=	0.95 cum
		Living Room	2 x 3.55 x 4.27 x 0.075	=	2.27 cum
		Guest Room	1 x 3.85 x 3.35 x 0.075	=	0.97 cum
		Stair Room	1 x 4.29 x 2.25 x 0.075	=	0.72 cum
					21 cum
		Total			

Sl. No.	Description	D	Details	Quantity
8	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level.			
In Foundation	F-1		1 x 2.90 x 3.40 x 0.40 =	3.94 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.30 =	0.16 cum
	F-2		1 x 3.25 x 4.00 x 0.50 =	6.50 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.20 =	0.11 cum
	F-3		1 x 3.25 x 3.30 x 0.40 =	4.29 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.30 =	0.16 cum
	F-4		1 x 3.00 x 9.20 x 0.40 =	11.04 cum
	BEAM		1 x 9.20 x 0.70 x 0.60 =	3.86 cum
	F-5		2 x 3.25 x 3.25 x 0.40 =	8.45 cum
	PEDESTAL		2 x 0.60 x 0.90 x 0.30 =	0.32 cum
In Foundation	F-6		2 x 3.00 x 4.40 x 0.50 =	13.20 cum
	PEDESTAL		2 x 0.60 x 0.90 x 0.20 =	0.22 cum
	F-7		1 x 3.70 x 4.00 x 0.50 =	7.40 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.20 =	0.11 cum
	F-8		1 x 3.30 x 8.00 x 0.40 =	10.56 cum
	BEAM		1 x 8.00 x 0.70 x 0.60 =	3.36 cum
	F-9		1 x 3.40 x 9.40 x 0.30 =	9.59 cum
	BEAM		1 x 9.40 x 0.70 x 0.70 =	4.61 cum
	F-10		1 x 3.40 x 5.00 x 0.50 =	8.50 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.20 =	0.11 cum
	F-11		1 x 9.30 x 5.00 x 0.40 =	18.60 cum
	BEAM		1 x 9.30 x 0.70 x 0.60 =	3.91 cum
In Foundation	F-12		1 x 3.30 x 3.50 x 0.40 =	4.62 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.30 =	0.16 cum
	F-13		1 x 3.30 x 3.30 x 0.40 =	4.36 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.30 =	0.16 cum
	F-14		1 x 3.40 x 3.10 x 0.40 =	4.22 cum
	PEDESTAL		1 x 0.60 x 0.90 x 0.30 =	0.16 cum
	F-15		1 x 4.00 x 3.10 x 0.50 =	6.20 cum
	Total			138.88 cum
9	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and struts etc upto floor V level excluding the cost of centering, shuttering, finishing & reinforcement ; 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)			
Column				
	C-1	Column upto Ground	13 x 0.30 x 0.60 x 2.05 =	4.80 cum
	C-2		5 x 0.30 x 0.60 x 2.05 =	1.85 cum
	C-2A		4 x 0.30 x 0.60 x 2.05 =	1.48 cum
	C-3		2 x 0.30 x 0.60 x 2.05 =	0.74 cum
	C-1	Column Above Tie	13 x 0.30 x 0.60 x 9.90 =	23.17 cum
	C-2		5 x 0.30 x 0.60 x 9.90 =	8.91 cum
	C-2A		4 x 0.30 x 0.60 x 12.30 =	8.86 cum
	C-3		2 x 0.30 x 0.60 x 9.90 =	3.56 cum
	Total			53.35 cum

Sl. No.	Description	D	Details		Quantity
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4graded stone aggregate 20 mm nominal size). Add or deduct for providing richer or leaner mixes respectively at all floor levels. Providing M-15 grade P.C.C instead of M-20 grade.				
	Tie beam		TB-1	2 x 1.75 x 0.25 x 0.30 =	0.26 cum
			TB-2	1 x 23.68 x 0.25 x 0.30 =	1.78 cum
			TB-3	1 x 3.60 x 0.25 x 0.30 =	0.27 cum
			TB-4	1 x 16.48 x 0.25 x 0.30 =	1.24 cum
			TB-5	1 x 3.60 x 0.25 x 0.30 =	0.27 cum
			TB-6	2 x 8.76 x 0.25 x 0.30 =	1.31 cum
			TB-7	3 x 0.51 x 0.25 x 0.30 =	0.11 cum
			TB-8	1 x 4.87 x 0.25 x 0.30 =	0.37 cum
			TB-9	1 x 4.37 x 0.25 x 0.30 =	0.33 cum
	Plinth beam		PB-1	1 x 1.75 x 0.25 x 0.25 =	0.11 cum
			PB-2	1 x 23.68 x 0.25 x 0.45 =	2.66 cum
			PB-3	1 x 3.30 x 0.25 x 0.25 =	0.21 cum
			PB-4	1 x 13.19 x 0.25 x 0.45 =	1.48 cum
			PB-5	1 x 3.60 x 0.25 x 0.45 =	0.41 cum
			PB-6	1 x 3.30 x 0.25 x 0.25 =	0.21 cum
			PB-6A	1 x 2.50 x 0.25 x 0.35 =	0.22 cum
			PB-7	1 x 3.60 x 0.25 x 0.45 =	0.41 cum
			PB-8	1 x 6.99 x 0.25 x 0.45 =	0.79 cum
			PB-8A	1 x 6.99 x 0.25 x 0.45 =	0.79 cum
			PB-9	1 x 3.60 x 0.25 x 0.45 =	0.41 cum
			PB-10	1 x 1.75 x 0.25 x 0.25 =	0.11 cum
			PB-12	1 x 3.60 x 0.25 x 0.45 =	0.41 cum
			PB-13	2 x 8.76 x 0.25 x 0.45 =	1.97 cum
			PB-14	2 x 0.51 x 0.25 x 0.25 =	0.06 cum
			PB-14A	2 x 0.51 x 0.25 x 0.25 =	0.06 cum
			PB-15	1 x 8.76 x 0.25 x 0.55 =	1.20 cum
			PB-16	1 x 2.35 x 0.25 x 0.25 =	0.15 cum
	Beam +3300 lv		PB-17	1 x 7.99 x 0.25 x 0.55 =	1.10 cum
			PB-18	1 x 3.60 x 0.25 x 0.45 =	0.41 cum
			PB-19	2 x 9.26 x 0.25 x 0.55 =	2.55 cum
			PB-20	1 x 7.99 x 0.25 x 0.60 =	1.20 cum
			PB-21	1 x 8.76 x 0.25 x 0.45 =	0.98 cum
			D	3 x 1.50 x 0.25 x 0.15 =	0.17 cum
			D1	4 x 1.35 x 0.25 x 0.15 =	0.20 cum
			D2	2 x 1.20 x 0.13 x 0.15 =	0.05 cum
			D3	2 x 1.05 x 0.13 x 0.15 =	0.04 cum
			W	2 x 1.50 x 0.25 x 0.15 =	0.11 cum
	Lintel Band		W1	3 x 1.50 x 0.25 x 0.15 =	0.17 cum
			W2	4 x 1.50 x 0.25 x 0.15 =	0.23 cum
			V	2 x 0.90 x 0.13 x 0.15 =	0.03 cum
			FGL	1 x 2.10 x 0.25 x 0.15 =	0.08 cum
	Chhajja		D	4 x 1.50 x 0.25 x 0.15 =	0.23 cum
			D1	12 x 1.35 x 0.25 x 0.15 =	0.61 cum
			D2	8 x 1.20 x 0.13 x 0.15 =	0.18 cum
			D3	14 x 1.05 x 0.13 x 0.15 =	0.28 cum
			W	8 x 1.50 x 0.25 x 0.15 =	0.45 cum
			W1	8 x 1.50 x 0.25 x 0.15 =	0.45 cum
			W2	14 x 1.50 x 0.25 x 0.15 =	0.79 cum
			W3	4 x 1.50 x 0.25 x 0.15 =	0.23 cum
			V	8 x 0.90 x 0.25 x 0.15 =	0.27 cum
			FGL	2 x 2.10 x 0.25 x 0.150 =	0.16 cum

Sl. No.	Description	D	Details	Quantity
	D		1 x 1.50 x 0.25 x 0.150 =	0.06 cum
stair	FGL		1 x 2.10 x 0.25 x 0.15 =	0.08 cum
	FFB-1		2 x 1.75 x 0.25 x 0.25 =	0.22 cum
	FFB-2		1 x 23.68 x 0.25 x 0.50 =	2.96 cum
	FFB-3		2 x 3.30 x 0.25 x 0.35 =	0.58 cum
	FFB-4		1 x 5.98 x 0.25 x 0.25 =	0.37 cum
	FFB-5		1 x 9.89 x 0.25 x 0.50 =	1.24 cum
stair	FFB-7		1 x 3.60 x 0.25 x 0.60 =	0.54 cum
	FFB-8		2 x 3.30 x 0.25 x 0.35 =	0.58 cum
	FFB-9		2 x 6.99 x 0.25 x 0.50 =	1.75 cum
	FFB-10		2 x 3.60 x 0.25 x 0.50 =	0.90 cum
	FFB-11		2 x 3.70 x 0.25 x 0.35 =	0.65 cum
	FFB-12		2 x 1.75 x 0.25 x 0.25 =	0.22 cum
	FFB-13		2 x 8.76 x 0.25 x 0.50 =	2.19 cum
stair	FFB-14A		4 x 0.51 x 0.25 x 0.25 =	0.13 cum
	FFB-15		2 x 8.76 x 0.25 x 0.60 =	2.63 cum
	FFB-16		2 x 2.35 x 0.25 x 0.25 =	0.29 cum
	FFB-17		2 x 9.26 x 0.25 x 0.60 =	2.78 cum
	FFB-18		2 x 3.60 x 0.25 x 0.35 =	0.63 cum
	FFB-19		2 x 9.26 x 0.25 x 0.60 =	2.78 cum
	FFB-20		1 x 2.50 x 0.25 x 0.30 =	0.19 cum
stair	SFB-1		2 x 1.75 x 0.25 x 0.25 =	0.22 cum
	SFB-2		1 x 23.68 x 0.25 x 0.50 =	2.96 cum
	SFB-3		2 x 3.30 x 0.25 x 0.35 =	0.58 cum
	SFB-4		1 x 5.98 x 0.25 x 0.25 =	0.37 cum
	SFB-5		1 x 9.89 x 0.25 x 0.50 =	1.24 cum
	SFB-6		1 x 3.60 x 0.25 x 0.60 =	0.54 cum
	SFB-7		1 x 3.60 x 0.25 x 0.60 =	0.54 cum
stair	SFB-9		2 x 6.99 x 0.25 x 0.50 =	1.75 cum
	SFB-10		2 x 3.60 x 0.25 x 0.50 =	0.90 cum
	SFB-11		2 x 3.70 x 0.25 x 0.35 =	0.65 cum
	SFB-12		2 x 1.75 x 0.25 x 0.25 =	0.22 cum
	SFB-13		2 x 8.76 x 0.25 x 0.50 =	2.19 cum
	SFB-14		4 x 0.51 x 0.25 x 0.25 =	0.13 cum
	SFB-14A		4 x 0.51 x 0.25 x 0.25 =	0.13 cum
stair	SFB-15		2 x 8.76 x 0.25 x 0.60 =	2.63 cum
	SFB-16		2 x 2.35 x 0.25 x 0.25 =	0.29 cum
	SFB-17		2 x 9.26 x 0.25 x 0.60 =	2.78 cum
	SFB-18		2 x 3.60 x 0.25 x 0.35 =	0.63 cum
	SFB-19		2 x 9.26 x 0.25 x 0.60 =	2.78 cum
	SFB-20		1 x 2.50 x 0.25 x 0.30 =	0.19 cum
stair	RB-1		4 x 1.75 x 0.25 x 0.25 =	0.44 cum
	RB-3		1 x 5.98 x 0.25 x 0.25 =	0.37 cum
	RB-4		1 x 16.48 x 0.25 x 0.45 =	1.85 cum
	RB-5		2 x 3.60 x 0.25 x 0.45 =	0.81 cum
	RB-6		2 x 6.99 x 0.25 x 0.45 =	1.57 cum
	RB-7		2 x 3.60 x 0.25 x 0.45 =	0.81 cum
	RB-8		2 x 3.70 x 0.25 x 0.25 =	0.46 cum
	RB-9		2 x 8.76 x 0.25 x 0.45 =	1.97 cum
	RB-10		4 x 0.51 x 0.25 x 0.25 =	0.13 cum
stair	RB-12		2 x 8.76 x 0.25 x 0.45 =	1.97 cum
	RB-13		2 x 9.26 x 0.25 x 0.45 =	2.08 cum
	RB-14		2 x 3.60 x 0.25 x 0.25 =	0.45 cum
	RB-15		2 x 9.26 x 0.25 x 0.45 =	2.08 cum
	RB-16		1 x 2.50 x 0.25 x 0.30 =	0.19 cum
	MRB-1		2 x 2.50 x 0.25 x 0.30 =	0.38 cum
	MRB-2		2 x 6.14 x 0.25 x 0.30 =	0.92 cum

Sl. No.	Description	D	Details	Quantity
	SLB-1		3 x 2.50 x 0.25 x 0.30 =	0.56 cum
	W		10 x 1.50 x 0.45 x 0.09 =	0.59 cum
	W1		11 x 1.50 x 0.45 x 0.09 =	0.65 cum
	W2		18 x 1.50 x 0.45 x 0.09 =	1.06 cum
	W3		4 x 1.50 x 0.45 x 0.09 =	0.24 cum
	V		10 x 0.90 x 0.30 x 0.09 =	0.24 cum
	RB-14		1 x 216.64 x 0.15 =	32.50 cum
	RB-15		1 x 216.64 x 0.15 =	32.50 cum
	RB-16		1 x 216.64 x 0.15 =	32.50 cum
	MRB-1		1 x 3.35 x 6.56 x 0.13 =	2.75 cum
	MRB-2		6 x 3.73 x 1.33 x 0.17 =	4.89 cum
	SLB-1		3 x 2.50 x 1.27 x 0.17 =	1.57 cum
	Waste slab		60 x 1.33 x 0.30 x 0.15 =	3.58 cum
	Total			205.81 cum
11	Centering and shuttering including strutting, propping etc. and removal of form for			
	Foundation	F-1	1 x 6.30 x 2.00 x 0.40 =	5.04 sqm
			1 x 1.50 x 2.00 x 0.30 =	0.90 sqm
		F-2	1 x 7.25 x 2.00 x 0.50 =	7.25 sqm
			1 x 1.50 x 2.00 x 0.20 =	0.60 sqm
		F-3	1 x 6.55 x 2.00 x 0.40 =	5.24 sqm
			1 x 1.50 x 2.00 x 0.30 =	0.90 sqm
		F-4	1 x 12.20 x 2.00 x 0.40 =	9.76 sqm
			1 x 9.90 x 2.00 x 0.60 =	11.88 sqm
		F-5	2 x 6.50 x 2.00 x 0.40 =	10.40 sqm
			2 x 1.50 x 2.00 x 0.30 =	1.80 sqm
			2 x 7.40 x 2.00 x 0.50 =	14.80 sqm
			2 x 1.50 x 2.00 x 0.20 =	1.20 sqm
	Foundation	F-1	1 x 7.70 x 2.00 x 0.50 =	7.70 sqm
			1 x 1.50 x 2.00 x 0.20 =	0.60 sqm
		F-2	1 x 11.30 x 2.00 x 0.40 =	9.04 sqm
			1 x 8.70 x 2.00 x 0.60 =	10.44 sqm
		F-3	1 x 12.80 x 2.00 x 0.30 =	7.68 sqm
			1 x 10.10 x 2.00 x 0.70 =	14.14 sqm
		F-4	1 x 8.40 x 2.00 x 0.50 =	8.40 sqm
			1 x 1.50 x 2.00 x 0.20 =	0.60 sqm
		F-5	1 x 14.30 x 2.00 x 0.40 =	11.44 sqm
			1 x 10.00 x 2.00 x 0.60 =	12.00 sqm
			1 x 6.80 x 2.00 x 0.40 =	5.44 sqm
			1 x 1.50 x 2.00 x 0.30 =	0.90 sqm
		F-3	1 x 6.60 x 2.00 x 0.40 =	5.28 sqm
			1 x 1.50 x 2.00 x 0.30 =	0.90 sqm
		F-4	1 x 6.50 x 2.00 x 0.40 =	5.20 sqm
			1 x 1.50 x 2.00 x 0.30 =	0.90 sqm
		F-5	1 x 7.10 x 2.00 x 0.50 =	7.10 sqm
	Total			177.53 sqm
12	Centering and shuttering including strutting, propping etc. and removal of form for lintel, beams, plinth beams, girders, bressumers and cantilevers.			

Sl. No.	Description		D	Details		Quantity
	Tie beam	TB-1		2 x 2 x 1.75 x 0.30	=	2.10 sqm
		TB-2		1 x 2 x 23.68 x 0.30	=	14.21 sqm
		TB-3		1 x 2 x 3.60 x 0.30	=	2.16 sqm
		TB-4		1 x 2 x 16.48 x 0.30	=	9.89 sqm
		TB-5		1 x 2 x 3.60 x 0.30	=	2.16 sqm
		TB-6		2 x 2 x 8.76 x 0.30	=	10.51 sqm
		TB-7		3 x 2 x 0.51 x 0.30	=	0.91 sqm
		TB-8		1 x 2 x 4.87 x 0.30	=	2.92 sqm
		TB-9		1 x 2 x 4.37 x 0.30	=	2.62 sqm
	Plinth beam	PB-1		1 x 2 x 1.75 x 0.25	=	0.88 sqm
		PB-2		1 x 2 x 23.68 x 0.45	=	21.31 sqm
		PB-3		1 x 2 x 3.30 x 0.25	=	1.65 sqm
		PB-4		1 x 2 x 13.19 x 0.45	=	11.87 sqm
		PB-5		1 x 2 x 3.60 x 0.45	=	3.24 sqm
		PB-6		1 x 2 x 3.30 x 0.25	=	1.65 sqm
		PB-6A		1 x 2 x 2.50 x 0.35	=	1.75 sqm
		PB-7		1 x 2 x 3.60 x 0.45	=	3.24 sqm
		PB-8		1 x 2 x 6.99 x 0.45	=	6.29 sqm
		PB-8A		1 x 2 x 6.99 x 0.45	=	6.29 sqm
		PB-9		1 x 2 x 3.60 x 0.45	=	3.24 sqm
		PB-10		1 x 2 x 1.75 x 0.25	=	0.88 sqm
		PB-12		1 x 2 x 3.60 x 0.45	=	3.24 sqm
		PB-13		2 x 2 x 8.76 x 0.45	=	15.76 sqm
		PB-14		2 x 2 x 0.51 x 0.25	=	0.51 sqm
		PB-14A		2 x 2 x 0.51 x 0.25	=	0.51 sqm
	PB-15		1 x 2 x 8.76 x 0.55	=	9.63 sqm	
	PB-16		1 x 2 x 2.35 x 0.25	=	1.18 sqm	
	Lintel	PB-17		1 x 2 x 7.99 x 0.55	=	8.79 sqm
		PB-18		1 x 2 x 3.60 x 0.45	=	3.24 sqm
		PB-19		2 x 2 x 9.26 x 0.55	=	20.37 sqm
		PB-20		1 x 2 x 7.99 x 0.60	=	9.59 sqm
		PB-21		1 x 2 x 8.76 x 0.45	=	7.88 sqm
	Roof beam	D		1.35 + 0.38	=	1.73 sqm
		D1		1.62 + 0.34	=	1.96 sqm
		D2		0.72 + 0.15	=	0.87 sqm
		D3		0.63 + 0.13	=	0.76 sqm
		W		0.90 + 0.38	=	1.28 sqm
		W1		1.35 + 0.38	=	1.73 sqm
		W2		1.80 + 0.38	=	2.18 sqm
		V		0.54 + 0.11	=	0.65 sqm
		FGL		0.63 + 0.53	=	1.16 sqm
		D		1.80 + 0.38	=	2.18 sqm
	Roof beam	D1		4.86 + 0.34	=	5.20 sqm
		D2		2.88 + 0.15	=	3.03 sqm
		D3		4.41 + 0.13	=	4.54 sqm
		W		3.60 + 0.38	=	3.98 sqm
		W1		3.60 + 0.38	=	3.98 sqm
		W2		6.30 + 0.38	=	6.68 sqm
		W3		1.80 + 0.38	=	2.18 sqm
		V		2.16 + 0.23	=	2.39 sqm
		FGL		1.26 + 0.53	=	1.79 sqm
		D		0.45 + 0.38	=	0.83 sqm
	Roof beam	FGL		0.63 + 0.53	=	1.16 sqm
		FFB-1		2 x 1.75 x 2.00 x 0.25	=	1.75 sqm
		FFB-2		1 x 23.68 x 2.00 x 0.50	=	23.68 sqm
		FFB-3		2 x 3.30 x 2.00 x 0.35	=	4.61 sqm
		FFB-4		1 x 5.98 x 2.00 x 0.25	=	2.99 sqm
		FFB-5		1 x 9.89 x 2.00 x 0.50	=	9.89 sqm

Sl. No.	Description	D	Details		Quantity
	FFB-6		1 x 3.60 x 2.00 x 0.60	=	4.32 sqm
	FFB-7		1 x 3.60 x 2.00 x 0.60	=	4.32 sqm
	FFB-8		2 x 3.30 x 2.00 x 0.35	=	4.61 sqm
	FFB-9		2 x 6.99 x 2.00 x 0.50	=	13.98 sqm
	FFB-10		2 x 3.60 x 2.00 x 0.50	=	7.20 sqm
	FFB-11		2 x 3.70 x 2.00 x 0.35	=	5.17 sqm
	FFB-12		2 x 1.75 x 2.00 x 0.25	=	1.75 sqm
Roof beam	FFB-13		2 x 8.76 x 2.00 x 0.50	=	17.51 sqm
	FFB-14		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	FFB-14A		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	FFB-15		2 x 8.76 x 2.00 x 0.60	=	21.01 sqm
	FFB-16		2 x 2.35 x 2.00 x 0.25	=	2.35 sqm
	FFB-17		2 x 9.26 x 2.00 x 0.60	=	22.22 sqm
	FFB-18		2 x 3.60 x 2.00 x 0.35	=	5.04 sqm
	FFB-19		2 x 9.26 x 2.00 x 0.60	=	22.22 sqm
	FFB-20		1 x 2.50 x 2.00 x 0.30	=	1.50 sqm
	SFB-1		2 x 1.75 x 2.00 x 0.25	=	1.75 sqm
	SFB-2		1 x 23.68 x 2.00 x 0.50	=	23.68 sqm
	SFB-3		2 x 3.30 x 2.00 x 0.35	=	4.61 sqm
	SFB-4		1 x 5.98 x 2.00 x 0.25	=	2.99 sqm
	SFB-5		1 x 9.89 x 2.00 x 0.50	=	9.89 sqm
	SFB-6		1 x 3.60 x 2.00 x 0.60	=	4.32 sqm
	SFB-7		1 x 3.60 x 2.00 x 0.60	=	4.32 sqm
	SFB-8		2 x 3.30 x 2.00 x 0.35	=	4.61 sqm
	SFB-9		2 x 6.99 x 2.00 x 0.50	=	13.98 sqm
	SFB-10		2 x 3.60 x 2.00 x 0.50	=	7.20 sqm
	SFB-11		2 x 3.70 x 2.00 x 0.35	=	5.17 sqm
	SFB-12		2 x 1.75 x 2.00 x 0.25	=	1.75 sqm
	SFB-13		2 x 8.76 x 2.00 x 0.50	=	17.51 sqm
	SFB-14		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	SFB-14A		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	SFB-15		2 x 8.76 x 2.00 x 0.60	=	21.01 sqm
	SFB-16		2 x 2.35 x 2.00 x 0.25	=	2.35 sqm
	SFB-17		2 x 9.26 x 2.00 x 0.60	=	22.22 sqm
	SFB-18		2 x 3.60 x 2.00 x 0.35	=	5.04 sqm
	SFB-19		2 x 9.26 x 2.00 x 0.60	=	22.22 sqm
	SFB-20		1 x 2.50 x 2.00 x 0.30	=	1.50 sqm
	RB-1		4 x 1.75 x 2.00 x 0.25	=	3.50 sqm
	RB-2		2 x 10.59 x 2.00 x 0.45	=	19.06 sqm
	RB-3		1 x 5.98 x 2.00 x 0.25	=	2.99 sqm
	RB-4		1 x 16.48 x 2.00 x 0.45	=	14.83 sqm
	RB-5		2 x 3.60 x 2.00 x 0.45	=	6.48 sqm
	RB-6		2 x 6.99 x 2.00 x 0.45	=	12.58 sqm
	RB-7		2 x 3.60 x 2.00 x 0.45	=	6.48 sqm
	RB-8		2 x 3.70 x 2.00 x 0.25	=	3.70 sqm
	RB-9		2 x 8.76 x 2.00 x 0.45	=	15.76 sqm
	RB-10		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	RB-11		4 x 0.51 x 2.00 x 0.25	=	1.01 sqm
	RB-12		2 x 8.76 x 2.00 x 0.45	=	15.76 sqm
	RB-13		2 x 9.26 x 2.00 x 0.45	=	16.67 sqm
	RB-14		3 x 3.50 x 2.00 x 0.25	=	5.25 sqm
	Total				722.09 sqm
13	Centering and shuttering including strutting, propping etc. and removal of form for columns, pillars, piers, abutments, posts and struts				
	Column	C1	13 x 0.90 x 2.00 x 2.05	=	47.97 sqm
		C2	5 x 0.90 x 2.00 x 2.05	=	18.45 sqm
		C2A	4 x 0.90 x 2.00 x 2.05	=	14.76 sqm
	Column	C1	2 x 0.90 x 2.00 x 2.05	=	7.38 sqm
		C2	13 x 0.90 x 2.00 x 9.90	=	231.66 sqm
		C2A	5 x 0.90 x 2.00 x 9.90	=	89.10 sqm

Sl. No.	Description	D	Details		Quantity
	Column	C1	4 x 0.90 x 2.00 x 12.30	=	88.56 sqm
		C2	2 x 0.90 x 2.00 x 9.90	=	35.64 sqm
		Total			533.52 sqm
14	Centering and shuttering including strutting, propping etc. and removal of form for suspended floors, roofs, landings, balconies and access platform.				
	Chhajja (all)	D	10 x 2 x 1.80 x 0.45	=	16.20 sqm
			10 x 2.70 x 0.09	=	2.36 sqm
		W	11 x 2 x 1.80 x 0.45	=	17.82 sqm
			11 x 2.70 x 0.09	=	2.60 sqm
		W1	18 x 2 x 1.80 x 0.45	=	29.16 sqm
			18 x 2.70 x 0.09	=	4.25 sqm
		W2	4 x 2 x 1.80 x 0.45	=	6.48 sqm
			4 x 2.70 x 0.09	=	0.95 sqm
		V	10 x 2 x 0.90 x 0.45	=	8.10 sqm
			23 x 1.80 x 0.09	=	3.62 sqm
	Slab +3300 Lvl	area	3 x 197.54	=	592.62 sqm
	mumty	area	1 x 3.35 x 6.56	=	21.98 sqm
	stair case	SLB	2 x 2.50 x 0.30	=	1.50 sqm
		MRB- 1	4 x 5.60 x 0.25	=	5.60 sqm
		MRB -2	4 x 2.50 x 0.25	=	2.50 sqm
		Waste slab	6 x 3.73 x 1.33	=	29.61 sqm
		Landing	3 x 2.50 x 1.27	=	9.53 sqm
		Total			754.84 sqm
16	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:6 (1cement :6 coarse sand)				
	Below Plinth		2 x 1.75 x 0.25 x 0.75	=	0.66 cum
			1 x 23.68 x 0.25 x 0.75	=	4.44 cum
			1 x 3.60 x 0.25 x 0.75	=	0.68 cum
			1 x 16.48 x 0.25 x 0.75	=	3.09 cum
			1 x 3.60 x 0.25 x 0.75	=	0.68 cum
			2 x 8.76 x 0.25 x 0.75	=	3.28 cum
			3 x 0.51 x 0.25 x 0.75	=	0.28 cum
			1 x 4.87 x 0.25 x 0.75	=	0.91 cum
			1 x 4.37 x 0.25 x 0.75	=	0.82 cum
			1 x 2.80 x 0.25 x 0.30	=	0.21 cum
			2 x 3.35 x 0.25 x 0.35	=	0.59 cum
			1 x 1.27 x 0.25 x 0.15	=	0.05 cum
			2 x 3.05 x 0.25 x 0.35	=	0.53 cum
			1 x 1.27 x 0.25 x 0.15	=	0.05 cum
			2 x 3.19 x 0.25 x 0.35	=	0.56 cum
			1 x 2.18 x 0.30 x 0.15	=	0.10 cum
		Total			17.0 cum
17	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:6 (1 cement: 6 coarse sand) Extra for Brick work in superstructure above plinth level upto floor Vlevel				
	+0 to +5700 lvl	A1'-A5	2 x 8.76 x 0.25 x 2.95	=	12.91 cum
		B1'-B2	2 x 0.77 x 0.25 x 2.95	=	1.13 cum

Sl. No.	Description	D	Details	Quantity
	B3-B5		2 x 5.64 x 0.25 x 2.95 =	8.32 cum
	E1-E4		1 x 5.66 x 0.25 x 2.95 =	4.17 cum
	F1-F5		1 x 9.89 x 0.25 x 2.95 =	7.29 cum
	1'A-1'B		2 x 3.60 x 0.25 x 2.95 =	5.31 cum
	2B-2E		2 x 6.99 x 0.25 x 2.95 =	10.31 cum
	4'B-4'D		2 x 3.30 x 0.25 x 2.95 =	4.86 cum
	5A-5B		2 x 3.60 x 0.25 x 2.95 =	5.31 cum
	5D-5F		2 x 6.20 x 0.25 x 2.95 =	9.14 cum
	A1'-A5		1 x 8.76 x 0.25 x 2.95 =	6.46 cum
	B1'-B2		1 x 0.77 x 0.25 x 2.95 =	0.56 cum
	D'4"-D'5		1 x 1.72 x 0.25 x 2.95 =	1.27 cum
	E1-E4		1 x 5.66 x 0.25 x 2.95 =	4.17 cum
	F1-F4		1 x 5.66 x 0.25 x 2.95 =	4.17 cum
	J1'-J2		1 x 0.77 x 0.25 x 2.95 =	0.56 cum
	J3'-J5		1 x 4.39 x 0.25 x 2.95 =	3.24 cum
	K1'-K5		1 x 8.76 x 0.25 x 2.95 =	6.46 cum
	1E-1F		1 x 2.50 x 0.25 x 2.95 =	1.84 cum
	1'A-1'B		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	1'J-1'K		2 x 3.60 x 1.25 x 2.95 =	26.55 cum
	2B-2E		1 x 6.99 x 0.25 x 2.95 =	5.16 cum
	2F-2J		1 x 6.99 x 0.25 x 2.95 =	5.16 cum
	4'B-4'D		1 x 3.30 x 0.25 x 2.95 =	2.43 cum
	4G-4J		1 x 3.30 x 0.25 x 2.95 =	2.43 cum
	5A-5B		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	5D-5D'		1 x 2.23 x 0.25 x 2.95 =	1.64 cum
	5F'-5G		1 x 2.23 x 0.25 x 2.95 =	1.64 cum
	5J-5K		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	A1'-A5		1 x 8.76 x 0.25 x 2.95 =	6.46 cum
	B1'-B2		1 x 0.77 x 0.25 x 2.95 =	0.56 cum
	D'4"-D'5		1 x 1.72 x 0.25 x 2.95 =	1.27 cum
	E1-E4		1 x 5.66 x 0.25 x 2.95 =	4.17 cum
	F1-F4		1 x 5.66 x 0.25 x 2.95 =	4.17 cum
	J1'-J2		1 x 0.77 x 0.25 x 2.95 =	0.56 cum
	J3'-J5		1 x 4.39 x 0.25 x 2.95 =	3.24 cum
	K1'-K5		1 x 8.76 x 0.25 x 2.95 =	6.46 cum
	1E-1F		1 x 2.50 x 0.25 x 2.95 =	1.84 cum
	1'A-1'B		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	1'J-1'K		2 x 3.60 x 1.25 x 2.95 =	26.55 cum
	2B-2E		1 x 6.99 x 0.25 x 2.95 =	5.16 cum
	2F-2J		1 x 6.99 x 0.25 x 2.95 =	5.16 cum
	4'B-4'D		1 x 3.30 x 0.25 x 2.95 =	2.43 cum
	4G-4J		1 x 3.30 x 0.25 x 2.95 =	2.43 cum
	5A-5B		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	5D-5D'		1 x 2.23 x 0.25 x 2.95 =	1.64 cum
	5F'-5G		1 x 2.23 x 0.25 x 2.95 =	1.64 cum
	5J-5K		1 x 3.60 x 0.25 x 2.95 =	2.66 cum
	E1-E4		1 x 5.66 x 0.25 x 2.15 =	3.04 cum
	F1-F4		1 x 5.66 x 0.25 x 2.15 =	3.04 cum
	1E-1F		1 x 2.50 x 0.25 x 2.15 =	1.34 cum
	4E-4F		1 x 2.50 x 0.25 x 2.15 =	1.34 cum
	1'A-1'B		1 x 3.60 x 0.25 x 0.90 =	0.81 cum

Sl. No.	Description	D	Details	Quantity
	B1'-B2		1 x 0.77 x 0.25 x 0.90 =	0.17 cum
	2B-2E		1 x 6.99 x 0.25 x 0.90 =	1.57 cum
	2F-2J		1 x 6.99 x 0.25 x 0.90 =	1.57 cum
Deductions	J2-J1'		1 x 0.77 x 0.25 x 0.90 =	0.17 cum
	1'J-1'K		1 x 3.60 x 0.25 x 0.90 =	0.81 cum
	K1'-K5		1 x 8.76 x 0.25 x 0.90 =	1.97 cum
	5K-5A		1 x 23.68 x 0.25 x 0.90 =	5.33 cum
	A5-A1'		1 x 8.76 x 0.25 x 0.90 =	1.97 cum
	D	d	3 x 1.20 x 0.25 x 2.10 =	-1.89 cum
	D1	d	4 x 1.05 x 0.25 x 2.10 =	-2.21 cum
	W	d	2 x 1.20 x 0.25 x 1.80 =	-1.08 cum
	W1	d	3 x 1.20 x 0.25 x 1.50 =	-1.35 cum
	W2	d	4 x 1.20 x 0.25 x 1.20 =	-1.44 cum
	V	d	2 x 0.60 x 0.25 x 0.60 =	-0.18 cum
	FGL	d	1 x 1.80 x 0.25 x 2.10 =	-0.95 cum
	D	d	4 x 1.20 x 0.25 x 2.10 =	-2.52 cum
	D1	d	12 x 1.05 x 0.25 x 2.10 =	-6.62 cum
	W	d	8 x 1.20 x 0.25 x 1.80 =	-4.32 cum
	W1	d	8 x 1.20 x 0.25 x 1.50 =	-3.60 cum
	W2	d	14 x 1.20 x 0.25 x 1.20 =	-5.04 cum
	W3	d	4 x 1.20 x 0.25 x 0.80 =	-0.96 cum
	V	d	8 x 0.60 x 0.25 x 0.60 =	-0.72 cum
	FGL	d	2 x 1.80 x 0.25 x 2.10 =	-1.89 cum
	D	d	1 x 1.20 x 0.25 x 2.10 =	-0.63 cum
	FGL	d	1 x 1.80 x 0.25 x 2.10 =	-0.95 cum
	Total			218.99 cum
18	Half brick masonry with bricks of class designation 100A in foundations and plinth in : Cement mortar 1:4 (1 cement: 4 coarse sand) Extra for half Brick masonry in superstructure above plinth level upto floor V level.			
	B2-B3'		2 x 3.30 x 3.15 =	20.76 sqm
	B'2-B'3		2 x 4.10 x 3.15 =	25.80 sqm
	D2-D3		2 x 1.75 x 3.15 =	11.03 sqm
	D4-D5		2 x 1.75 x 3.15 =	11.03 sqm
	D'4-D'5		2 x 0.51 x 3.15 =	3.18 sqm
	3B-3D		2 x 0.51 x 3.15 =	3.18 sqm
	3'A-3'B		2 x 0.51 x 3.15 =	3.18 sqm
	4D-4D'		2 x 0.51 x 3.15 =	3.18 sqm
	4D'-4F		2 x 2.10 x 3.15 =	13.23 sqm
	B2-B3'		2 x 2.35 x 3.15 =	14.81 sqm
	B'2-B'3		2 x 2.35 x 3.15 =	14.81 sqm
	D2-D3		2 x 2.35 x 3.15 =	14.81 sqm
	D4-D5		2 x 3.60 x 3.15 =	22.68 sqm
	D'4-D'5		2 x 3.60 x 3.15 =	22.68 sqm
	3B-3D		2 x 1.75 x 3.15 =	11.03 sqm
	3'A-3'B		2 x 1.75 x 3.15 =	11.03 sqm
	4D-4D'		2 x 3.60 x 3.15 =	22.68 sqm
	4D'-4F		2 x 3.60 x 3.15 =	22.68 sqm
	B2-B3'		2 x 3.30 x 3.15 =	20.76 sqm

Sl. No.	Description	D	Details	Quantity
	B'2-B'3		2 x 3.30 x 3.15 =	20.76 sqm
	D2-D3		2 x 9.89 x 3.15 =	62.31 sqm
	D4-D5		2 x 1.47 x 3.15 =	9.26 sqm
	D'4-D'5		2 x 1.60 x 3.15 =	10.05 sqm
	3B-3D		2 x 5.57 x 3.15 =	35.06 sqm
	3'A-3'B		2 x 1.75 x 3.15 =	11.03 sqm
	4D-4D'		2 x 1.75 x 3.15 =	11.03 sqm
	4D'-4F		2 x 0.51 x 3.15 =	3.18 sqm
	B2-B3'		2 x 0.51 x 3.15 =	3.18 sqm
	B'2-B'3		2 x 0.51 x 3.15 =	3.18 sqm
	D2-D3		2 x 0.51 x 3.15 =	3.18 sqm
	D4-D5		2 x 2.35 x 3.15 =	14.81 sqm
	D'4-D'5		2 x 2.35 x 3.15 =	14.81 sqm
	3B-3D		2 x 2.35 x 3.15 =	14.81 sqm
	3'A-3'B		2 x 3.59 x 3.15 =	22.62 sqm
	4D-4D'		2 x 1.86 x 3.15 =	11.72 sqm
	4D'-4F		2 x 1.86 x 3.15 =	11.72 sqm
	B2-B3'		2 x 1.86 x 3.15 =	11.72 sqm
	B'2-B'3		2 x 1.86 x 3.15 =	11.72 sqm
	D'4-D'5		2 x 2.35 x 3.15 =	14.81 sqm
	3B-3D		2 x 3.60 x 3.15 =	22.68 sqm
	3'A-3'B		2 x 0.51 x 3.15 =	3.18 sqm
	4D-4D'		2 x 0.51 x 3.15 =	3.18 sqm
	4D'-4F		2 x 0.51 x 3.15 =	3.18 sqm
	Parapet		2 x 0.30 x 3.15 =	1.89 sqm
	Deduction	D1	d 10 x 0.90 x 0.13 x 2.10 =	-2.36 sqm
		D2	d 16 x 0.75 x 0.13 x 2.10 =	-3.15 sqm
	Total			602.23 sqm
19	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F. P. S. bricks)			
	Quantity same as calculated as above		=	602.23 sqm
	Total			602.23 sqm
20	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints miltred and welded with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone			
	M S angle section in Choukhat			
	D		6 x 5.40 =	32.40 m
	D1		8 x 5.25 =	42.00 m
	D2		8 x 5.10 =	40.80 m
	D		8 x 5.40 =	43.20 m
	D1		24 x 5.25 =	126.00 m
	D		2 x 5.40 =	10.80 m
	D3		4 x 4.95 =	19.80 m
			Total Length =	315.00 m
			= Weight of angle section 40 x 40 x 6 mm; @ 3.50 kg/m. i.e., 315.00 x 3.50 =	1102.50 kg
	Total			1102.50 kg

Sl. No.	Description	D	Details	Quantity
21	Providing and fixing flush door shutters conforming to IS : 2202 (Part-I) non-decorative type core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.35 mm thick including anodized aluminum butt hinges with necessary screws-			
	D		6 x 1.20 x 2.10 =	15.12 sqm
	D1		8 x 1.05 x 2.10 =	17.64 sqm
	D2		8 x 0.90 x 2.10 =	15.12 sqm
			8 x 1.20 x 2.10 =	20.16 sqm
	D		24 x 1.05 x 2.10 =	52.92 sqm
	D1		1 x 1.20 x 2.10 =	2.52 sqm
	D2		16 x 0.75 x 2.10 =	25.20 sqm
	Total			148.68 sqm
22	Providing and fixing alluminium handles 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: 125 mm			
	All Door		71 x 2 =	142.00 no.
	Total			142.00 0.00
23	Providing and fixing alluminium sliding tower bolt 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: 300x10 mm			
	All Door		71 x 1 =	71.00 no.
	Total			71.00 0.00
24	Providing and fixing alluminium pull bolt lock 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:			
	All Door		71 x 1 =	71.00 no.
	Total			71.00 0.00
25	Providing and fixing alluminium sliding door bolt 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: 300x16mm			
	All Door		71 x 1 =	71.00 no.
	Total			71.00 0.00
27	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. lugs10cm long with steel legs embedded in cement concrete blocks 15x10x10cm.of (1:3:6) (1cement : 3coarse sand : 6graded 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			
	W		4 x 1.20 x 1.80 =	8.64 sqm
	W1		6 x 1.20 x 1.50 =	10.80 sqm
	W2		8 x 1.20 x 1.20 =	11.52 sqm
	W		8 x 1.20 x 1.80 =	17.28 sqm
	W1		8 x 1.20 x 1.50 =	14.40 sqm
	W2		14 x 1.20 x 1.20 =	20.16 sqm
	W1		4 x 1.20 x 0.80 =	3.84 sqm
	Total			86.64 sqm

Sl. No.	Description	D	Details	Quantity
28	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. lugs 10cm long with steel legs embedded in cement concrete blocks 15x10x10cm. of (1:3:6) (1 cement : 3 coarse sand :			
	V		16 x 0.60 x 0.60 =	5.76 sqm
	Total			5.76 sqm
29	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flat square or round bars etc all complete fixed to steel windows by welding.			
	W		12 x 1.80 x 1.20 =	25.92 sqm
	W1		14 x 1.50 x 1.20 =	25.20 sqm
	W2		22 x 1.20 x 1.20 =	31.68 sqm
			4 x 1.20 x 0.80 =	3.84 sqm
	V		12 x 0.60 x 0.60 =	4.32 sqm
	FGL		4 x 1.80 x 2.10 =	15.12 sqm
			Total Area =	106.08 sqm
			= Weight of grill @ 22.00 kg/sqm i.e., 106.08 x 22.00 =	2333.76 kg
	Total			2333.76 kg
30	Providing and fixing M.S fan clamp type I or II of 16 mm dia. M.S bar bent to shape with hooked ends in R.C.C slabs during laying including painting the exposed portion of loop, all as per standard design complete.			
			90 x 1 =	90.00 no.
	Total			90.00 0.00
31	Providing & fixing hand rail by welding etc. to steel ladder railing & staircases railing including applying a priming coat of approved steel primer. MS tube (medium) 40mm nominal bore.			
	Stair railing		1 x 450.00 =	450.00 kg
	Total			450.00 kg
32	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white			
	Flooring at +0 Lvl			
	Bed Room		2 x 3.35 x 4.27 =	28.58 sqm
	Bed Room		2 x 3.35 x 4.12 =	27.57 sqm
	Balcony		2 x 3.63 x 1.22 =	8.85 sqm
	Balcony		2 x 3.05 x 1.22 =	7.43 sqm
	Dining Room		2 x 3.05 x 4.27 =	25.97 sqm
	Living Room		2 x 3.57 x 4.27 =	30.45 sqm
	Guest Room		1 x 3.85 x 3.35 =	12.88 sqm
	Stair Room		1 x 4.27 x 2.25 =	9.60 sqm
			2 x 1.50 x 0.63 =	1.89 sqm
	Bed Room		2 x 3.35 x 4.27 =	28.58 sqm
	Bed Room		2 x 3.35 x 4.12 =	27.57 sqm
	Balcony		2 x 3.63 x 1.22 =	8.85 sqm
	Balcony		2 x 3.05 x 1.22 =	7.43 sqm
	Dining Room		2 x 3.05 x 4.27 =	25.97 sqm
	Living Room		2 x 3.57 x 4.27 =	30.45 sqm

Sl. No.	Description	D	Details	Quantity
	Verandah		1 x 5.19 x 1.74 =	9.03 sqm
			5 x 2.25 x 1.86 =	20.93 sqm
	STORE ROOM		2 x 1.47 x 1.47 =	4.32 sqm
			4 x 1.50 x 0.63 =	3.78 sqm
	PASSAGE		1 x 2.80 x 1.40 =	3.92 sqm
	Bed Room		2 x 3.35 x 4.27 =	28.58 sqm
	Bed Room		2 x 3.35 x 4.12 =	27.57 sqm
	Balcony		2 x 3.63 x 1.22 =	8.85 sqm
	Balcony		2 x 3.05 x 1.22 =	7.43 sqm
	Dining Room		2 x 3.05 x 4.27 =	25.97 sqm
	Living Room		2 x 3.57 x 4.27 =	30.45 sqm
	Verandah		1 x 5.19 x 1.74 =	9.03 sqm
			5 x 2.25 x 1.86 =	20.93 sqm
	STORE ROOM		2 x 1.47 x 1.47 =	4.32 sqm
	Total			487.18 cum
32	skirting			
	Stair case	Tread	60 x 1.05 x 0.30 =	18.90 sqm
		Riser	66 x 1.05 x 0.15 =	10.40 sqm
		Landing	6 x 2.65 x 1.35 =	21.47 sqm
	Skirting	Bed Room	2 x 3.35 x 4.27 x 0.15 =	4.29 sqm
		Bed Room	2 x 3.35 x 4.12 x 0.15 =	4.14 sqm
		Cuboard	2 x 3.63 x 1.22 x 0.15 =	1.33 sqm
		Balcony	2 x 3.05 x 1.22 x 0.15 =	1.11 sqm
		Balcony	4 x 3.05 x 0.15 =	1.83 sqm
		Dining Room	2 x 4.27 x 0.15 =	1.28 sqm
		Toilet Area	2 x 2.41 x 0.15 =	0.72 sqm
		Toilet Area	2 x 3.57 x 0.15 =	1.07 sqm
		Kitchen	2 x 4.27 x 0.15 =	1.28 sqm
		Living Room	2 x 2.23 x 0.15 =	0.67 sqm
		Guest Room	1 x 5.19 x 0.15 =	0.78 sqm
	Skirting	Bed Room	2 x 1.74 x 0.15 =	0.52 sqm
		Bed Room	2 x 1.47 x 0.15 =	0.44 sqm
		Cuboard	1 x 2.25 x 0.15 =	0.34 sqm
		Balcony	2 x 1.86 x 0.15 =	0.56 sqm
		Balcony	2 x 1.47 x 1.47 x 0.15 =	0.65 sqm
		Dining Room	1 x 2.80 x 0.15 =	0.42 sqm
		Toilet Area	2 x 3.35 x 4.27 x 0.15 =	4.29 sqm
		Toilet Area	2 x 3.35 x 4.12 x 0.15 =	4.14 sqm
		Kitchen	2 x 3.63 x 1.22 x 0.15 =	1.33 sqm
		Living Room	2 x 3.05 x 1.22 x 0.15 =	1.11 sqm
		Guest Room	4 x 3.05 x 0.15 =	1.83 sqm
		Balcony	2 x 4.27 x 0.15 =	1.28 sqm
		Balcony	2 x 2.41 x 0.15 =	0.72 sqm
		Dining Room	2 x 3.57 x 0.15 =	1.07 sqm
		Toilet Area	2 x 4.27 x 0.15 =	1.28 sqm
		Toilet Area	2 x 2.23 x 0.15 =	0.67 sqm
		Kitchen	1 x 5.19 x 0.15 =	0.78 sqm

Sl. No.	Description	D	Details	Quantity
	Living Room		2 x 1.74 x 0.15 =	0.52 sqm
	Balcony		2 x 1.47 x 0.15 =	0.44 sqm
	Balcony		2 x 2.25 x 0.15 =	0.68 sqm
	Total			92.34 sqm
			Total c=(A+B)	579.40 sqm
33	Providing and laying Ceramic glazed floor tiles 300x300 mm (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 Brown 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.			
	Flooring	Toilet Area	6 x 3.80 =	22.80 sqm
			6 x 3.80 =	22.80 sqm
			6 x 5.57 =	33.42 sqm
	Total			79.0 sqm
34	Providing and fixing 1st quality Ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades, except burgundy, bottle green, black of any size as approved by Engineer-in-charge in skirting, risers of step and dados over 12mm thick bed of Cement Mortar 1:3 (1 cement :			
	Wall	Toilet & Passage	6 x 2 x 3.60 x 2.10 =	90.72 sqm
			6 x 2 x 3.60 x 2.10 =	90.72 sqm
			5 x 2 x 5.38 x 2.10 =	113.06 sqm
	Deductions	d	2 x 0.75 x 2.10 =	-3.15 sqm
	Total			291.35 sqm
35	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)			
	External Wall	1'A-1A'	2 x 1.85 x 4.50 =	16.65 sqm
		A'1-A'1'	2 x 0.51 x 4.50 =	4.55 sqm
		1A'-1B	2 x 1.75 x 4.50 =	15.75 sqm
		B1-B2	2 x 1.27 x 4.50 =	11.43 sqm
		2B-2D	2 x 3.30 x 4.50 =	29.66 sqm
		2D-2E	2 x 3.70 x 4.50 =	33.26 #REF!
		2E-2F	2 x 2.50 x 4.50 =	22.50 sqm
		F2-F5	2 x 8.76 x 4.50 =	78.80 sqm
		5F-5D	2 x 6.20 x 4.50 =	55.76 sqm
		5D-5B	2 x 3.30 x 4.50 =	29.66 sqm
		B6-B5	2 x 0.51 x 4.50 =	4.55 sqm
		6A'-6B	2 x 1.75 x 4.50 =	15.75 sqm
		A'6-A'5	2 x 0.51 x 4.50 =	4.55 sqm
		5A-5A'	2 x 1.85 x 4.50 =	16.65 sqm
		A5-A1'	2 x 8.76 x 4.50 =	78.80 sqm
		1'A-1A'	1 x 1.85 x 3.60 =	6.66 sqm
		A'1-A'1'	1 x 0.51 x 3.60 =	1.82 sqm
		1A'-1B	1 x 1.75 x 3.60 =	6.30 sqm
		B1-B2	1 x 1.27 x 3.60 =	4.57 sqm
		2B-2D	1 x 3.30 x 3.60 =	11.86 sqm
		2D-2E	1 x 3.70 x 3.60 =	13.30 sqm
		2F-2J	1 x 6.99 x 3.60 =	25.16 sqm
		J2-J1	1 x 1.27 x 3.60 =	4.57 sqm
		1J-1J'	1 x 1.75 x 3.60 =	6.30 sqm
		J'1-J'1'	1 x 0.51 x 3.60 =	1.82 sqm

Sl. No.	Description	D	Details	Quantity
	1J'-1K		1 x 1.85 x 3.60 =	6.66 sqm
	K1'-K5		1 x 8.76 x 3.60 =	31.52 sqm
	5J'-5K		1 x 1.85 x 3.60 =	6.66 sqm
	J'6-J'5		1 x 0.51 x 3.60 =	1.82 sqm
	6J-6J'		1 x 1.75 x 3.60 =	6.30 sqm
	J6-J5		1 x 0.51 x 3.60 =	1.82 sqm
	5J'-5B		1 x 16.48 x 3.60 =	59.33 sqm
	B6-B5		1 x 0.51 x 3.60 =	1.82 sqm
	6A'-6B		1 x 1.75 x 3.60 =	6.30 sqm
	A'6-A'5		1 x 0.51 x 3.60 =	1.82 sqm
	5A-5A'		1 x 1.85 x 3.60 =	6.66 sqm
	A5-A1'		1 x 8.76 x 3.60 =	31.52 sqm
	1'A-1A'		1 x 1.85 x 3.60 =	6.66 sqm
	A'1-A'1'		1 x 0.51 x 3.60 =	1.82 sqm
	1A'-1B		1 x 1.75 x 3.60 =	6.30 sqm
	B1-B2		1 x 1.27 x 3.60 =	4.57 sqm
	2B-2D		1 x 3.30 x 3.60 =	11.86 sqm
	2D-2E		1 x 3.70 x 3.60 =	13.30 sqm
	2F-2J		1 x 6.99 x 3.60 =	25.16 sqm
	J2-J1		1 x 1.27 x 3.60 =	4.57 sqm
	1J-1J'		1 x 1.75 x 3.60 =	6.30 sqm
	J'1-J'1'		1 x 0.51 x 3.60 =	1.82 sqm
	1J'-1K		1 x 1.85 x 3.60 =	6.66 sqm
	K1'-K5		1 x 8.76 x 3.60 =	31.52 sqm
	5J'-5K		1 x 1.85 x 3.60 =	6.66 sqm
	J'6-J'5		1 x 0.51 x 3.60 =	1.82 sqm
	6J-6J'		1 x 1.75 x 3.60 =	6.30 sqm
	J6-J5		1 x 0.51 x 3.60 =	1.82 sqm
	5J'-5B		1 x 16.48 x 3.60 =	59.33 sqm
	B6-B5		1 x 0.51 x 3.60 =	1.82 sqm
	6A'-6B		1 x 1.75 x 3.60 =	6.30 sqm
	A'6-A'5		1 x 0.51 x 3.60 =	1.82 sqm
	5A-5A'		1 x 1.85 x 3.60 =	6.66 sqm
	A5-A1'		1 x 8.76 x 3.60 =	31.52 sqm
	1'A-1'B		2 x 3.60 x 0.90 =	6.48 sqm
	B1'-B2		2 x 0.77 x 0.90 =	1.38 sqm
	2B-2E		2 x 6.99 x 0.90 =	12.58 sqm
	2F-2J		2 x 6.99 x 0.90 =	12.58 sqm
	J2-J1'		2 x 0.77 x 0.90 =	1.38 sqm
	1'J-1'K		2 x 3.60 x 0.90 =	6.48 sqm
	K1'-K5		2 x 8.76 x 0.90 =	15.76 sqm
	5K-5A		2 x 23.68 x 0.90 =	42.62 sqm
	A5-A1'		2 x 8.76 x 0.90 =	15.76 sqm
	E1-E4		1 x 5.66 x 2.40 =	13.58 sqm
	F1-F4		1 x 5.66 x 2.40 =	13.58 sqm
	1E-1F		1 x 2.50 x 2.40 =	6.00 sqm
	4E-4F		1 x 2.50 x 2.40 =	6.00 sqm
	COLUMN		6 x 1.80 x 3.60 =	38.88 sqm
	1'A-1'B		2 x 3.60 x 0.25 =	1.80 sqm
	B1'-B2		2 x 0.77 x 0.25 =	0.38 sqm
	2B-2E		2 x 6.99 x 0.25 =	3.50 sqm
	2F-2J		2 x 6.99 x 0.25 =	3.50 sqm

Sl. No.	Description	D	Details	Quantity
	J2-J1'		2 x 0.77 x 0.25 =	0.38 sqm
	1'J-1'K		2 x 3.60 x 0.25 =	1.80 sqm
	K1'-K5		2 x 8.76 x 0.25 =	4.38 sqm
	A5-A1'		20 x 8.76 x 0.25 =	43.78 sqm
	W		10 x 1.80 x 0.45 =	8.10 sqm
			10 x 2.70 x 0.09 =	2.36 sqm
	W1		11 x 1.80 x 0.45 =	8.91 sqm
			11 x 2.70 x 0.09 =	2.60 sqm
	W2		18 x 1.80 x 0.45 =	14.58 sqm
			18 x 2.70 x 0.09 =	4.25 sqm
	W3		4 x 1.80 x 0.45 =	3.24 sqm
			4 x 2.70 x 0.09 =	0.95 sqm
	V		10 x 0.90 x 0.45 =	4.05 sqm
			10 x 1.80 x 0.09 =	1.58 sqm
	Total			1222.02 sqm
36	12mm thick Cement plaster of mix 1:6	(1 cement : 6 coarse sand)		
Gr F	Bed Room		2 x 15.23 x 3.18 =	96.71 sqm
	Bed Room		2 x 14.93 x 3.18 =	94.81 sqm
	Cuboard		2 x 9.69 x 3.18 =	61.53 sqm
	Balcony		2 x 8.53 x 3.18 =	54.17 sqm
	Balcony		4 x 3.05 x 3.18 =	38.74 sqm
	0		2 x 4.27 x 3.18 =	27.11 sqm
	Dining Room		2 x 2.41 x 3.18 =	15.30 sqm
	Toilet Area		2 x 3.57 x 3.18 =	22.67 sqm
	Toilet Area		2 x 4.27 x 3.18 =	27.11 sqm
	Kitchen		2 x 2.23 x 3.18 =	14.16 sqm
	Living Room		1 x 7.20 x 3.18 =	22.86 sqm
	Guest Room		1 x 6.52 x 3.18 =	20.70 sqm
	Stair Room		1 x 3.60 x 3.18 =	11.43 sqm
	E1-E4		1 x 3.65 x 2.40 =	8.76 sqm
	F1-F4		1 x 5.05 x 2.40 =	12.12 sqm
	1E-1F		2 x 7.62 x 2.40 =	36.58 sqm
Gr F	Bed Room		2 x 7.47 x 3.18 =	47.43 sqm
	Bed Room		2 x 4.85 x 3.18 =	30.80 sqm
	Cuboard		2 x 4.27 x 3.18 =	27.11 sqm
	Balcony		4 x 3.05 x 3.18 =	38.74 sqm
	Balcony		2 x 4.27 x 3.18 =	27.11 sqm
	0		2 x 2.41 x 3.18 =	15.30 sqm
	Dining Room		2 x 3.57 x 3.18 =	22.67 sqm
	Toilet Area		2 x 4.27 x 3.18 =	27.11 sqm
	Toilet Area		2 x 2.23 x 3.18 =	14.16 sqm
	Kitchen		1 x 14.39 x 3.18 =	45.69 sqm
	Living Room		2 x 13.03 x 3.18 =	82.74 sqm
	Guest Room		2 x 7.20 x 3.18 =	45.72 sqm
	Stair Room		1 x 7.29 x 3.18 =	23.15 sqm
	E1-E4		2 x 10.10 x 2.40 =	48.48 sqm
	F1-F4		2 x 15.23 x 2.40 =	73.10 sqm
	1E-1F		1 x 14.93 x 2.40 =	35.83 sqm
Gr F	Bed Room		2 x 9.69 x 3.18 =	61.53 sqm
	Bed Room		2 x 8.53 x 3.18 =	54.17 sqm
	Cuboard		2 x 6.09 x 3.18 =	38.67 sqm
	Balcony		1 x 8.53 x 3.18 =	27.08 sqm
	Balcony		2 x 4.81 x 3.18 =	30.54 sqm
	Dining Room		2 x 8.53 x 3.18 =	54.17 sqm
	Toilet Area		2 x 4.45 x 3.18 =	28.26 sqm

Sl. No.	Description	D	Details	Quantity
	Toilet Area		4 x 10.38 x 3.18 =	131.83 sqm
	Kitchen		2 x 3.48 x 3.18 =	22.10 sqm
	Living Room		2 x 2.94 x 3.18 =	18.67 sqm
	Guest Room		2 x 4.50 x 3.18 =	28.58 sqm
	Stair Room		2 x 3.72 x 3.18 =	23.62 sqm
	E1-E4		2 x 5.88 x 2.40 =	28.22 sqm
	F1-F4		1 x 5.60 x 2.40 =	13.44 sqm
	1E-1F		2 x 7.20 x 2.40 =	34.56 sqm
	4E-4F		2 x 7.29 x 2.40 =	34.99 sqm
Gr F	Bed Room		1 x 10.90 x 3.18 =	34.61 sqm
	Bed Room		2 x 13.03 x 3.18 =	82.74 sqm
	Cuboard		2 x 15.23 x 3.18 =	96.71 sqm
	Balcony		1 x 14.93 x 3.18 =	47.40 sqm
	Balcony		2 x 9.69 x 3.18 =	61.53 sqm
	Dining Room		2 x 5.45 x 3.18 =	34.61 sqm
	Toilet Area		1 x 6.52 x 3.18 =	20.70 sqm
	Toilet Area		1 x 5.66 x 3.18 =	17.97 sqm
	Kitchen		1 x 5.66 x 3.18 =	17.97 sqm
	Living Room		1 x 2.50 x 3.18 =	7.94 sqm
	Guest Room		2 x 2.50 x 3.18 =	15.88 sqm
	Stair Room		3 x 1.20 x 2.10 =	7.56 sqm
	E1-E4	d	4 x 1.05 x 2.10 =	-8.82 sqm
	F1-F4	d	2 x 1.20 x 1.80 =	-4.32 sqm
	1E-1F	d	3 x 1.20 x 1.50 =	-5.40 sqm
	4E-4F	d	4 x 1.20 x 1.20 =	-5.76 sqm
	D1	d	1 x 0.60 x 0.60 =	-0.36 sqm
	D2	d	4 x 1.80 x 2.10 =	-15.12 sqm
	Total			2209.19 sqm
37	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)			
	Ceiling			
	Bed Room		6 x 3.35 x 4.27 =	85.73 sqm
	Bed Room		6 x 3.35 x 4.12 =	82.71 sqm
	Balcony		6 x 3.63 x 1.22 =	26.54 sqm
	Balcony		6 x 3.05 x 1.22 =	22.29 sqm
	Dining Room		6 x 3.05 x 4.27 =	77.92 sqm
	Toilet Area		6 x 1.50 x 2.10 =	18.90 sqm
	Toilet Area		6 x 1.55 x 2.10 =	19.47 sqm
	Kitchen		6 x 2.10 x 2.95 =	37.17 sqm
	Living Room		6 x 3.57 x 4.27 =	91.36 sqm
	Guest Room		7 x 3.85 x 3.35 =	90.17 sqm
	mumty area		2 x 22.10 =	44.20 sqm
	Total			601.41 sqm
38	Cement concrete flooring 1:2:4(1 cement:2 coarse:sand:4 graded stone aggregate)			
	Over roof		Complete area	
			1 x 220.00 =	220.00 sqm
	Total			220.00 sqm
39	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.			
	Quantity same as calculated for External, Internal and Ceiling plaster			4032.62 sqm
	Total			4032.62 sqm

Sl. No.	Description	D	Details	Quantity
40	Finishing walls with Acrylic Smooth exterior paint of required shade :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)			
	Quantity same as calculated for External plaster			1222.02 sqm
	Total			1222.02 sqm
41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including priming coat with cement primer.			
	Quantity same as calculated for Internal and Ceiling plaster			2810.60 sqm
	Total			2810.60 sqm
42	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)			
	Door	D	2 x 16 x 1.20 x 2.10 x 1.10 (factor) =	88.70 sqm
		D1	2 x 31 x 1.07 x 2.10 x 1.10 (factor) =	153.25 sqm
	Total			241.92 sqm
43	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.			
	W		12 x 2 x 1.80 x 1.20 x 0.50 (factor) =	25.92 sqm
	W1		14 x 2 x 1.50 x 1.20 x 0.50 (factor) =	25.20 sqm
	W2		22 x 2 x 1.20 x 1.20 x 0.50 (factor) =	31.68 sqm
	V		16 x 2 x 0.60 x 0.60 x 0.50 (factor) =	5.76 sqm
	FGL		4 x 2 x 2.10 x 2.10 x 0.50 (factor) =	17.64 sqm
	Total			106.08 sqm
44	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more coats on new work (wood & steel)			
	D		2 x 14 x 1.20 x 2.10 x 1.10 (factor) =	77.62 sqm
	D1		2 x 32 x 1.07 x 2.10 x 1.10 (factor) =	158.19 sqm
	W		23 x 2 x 1.80 x 1.20 x 0.50 (factor) =	49.68 sqm
	W1		14 x 2 x 1.50 x 1.20 x 0.50 (factor) =	25.20 sqm
	W2		22 x 2 x 1.20 x 1.20 x 0.50 (factor) =	31.68 sqm
	V		16 x 2 x 0.60 x 0.60 x 0.50 (factor) =	5.76 sqm
	FGL		4 x 2 x 2.10 x 2.10 x 0.50 (factor) =	17.64 sqm
	Total			366.14 sqm
46	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.			
			1 x 46.48 x 1.00 =	46.48 sqm
	Total			46.48 sqm