

DPR
(Detailed Project Report)
for
Phase II work
of
Primary Teacher Education College
(PTEC)
Campus at
Nagarpara, Bhagalpur

Estimated Cost : Rs. 412.611 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 PTEC Campus at Nagarpara, Bhagalpur

Government of Bihar has decided to have progressive and quality improvement of Education in Bihar and has sanctioned the construction of PTEC Buildings in the 1st phase. The construction of the sanctioned work is completed 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.
- ▶ Construction of Portico for required buildings using MS pipe truss and coloured translucent sheet.
- ▶ 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. 412.611 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 PTEC Campus at Nagarpara, Bhagalpur

Sl. No.	Particulars	Estimated Amount
1.	Construction of Boundary wall	: Rs. 2866755.00
2.	Construction of Main Gate	: Rs. 1022728.00
3.	Construction of Principal & Staff Quarters	: Rs. 11253045.00
3.	Construction of Guard Room.	: Rs. 427555.00
4.	Campus Development and Landscaping	: Rs. 3175306.00
5.	Construction of Portico and Cycle/Motor cycle stand	: Rs. 1030393.00
6.	Development of Campus Lighting	: Rs. 1213809.00
7.	Provision for Furnishing (Furniture)	: Rs. 13607480.00
8.	Provision for Solar Hybrid Power Plant	: Rs. 2100000.00
9.	Miscellaneous Work (Signage, Fire fighting, Acoustic paleling in conference hall, Earthen Seating platform, Wrought iron Garden Bench, PCC paver block parking area, etc.)	: Rs. 1864677.00
	Total	: Rs. 38561748.00
10.	Add Centage @ 7% (Supervision charge for BSEIDC)	: Rs. 2699351.00
	Grand Total	: Rs. 41261099.00
		Say Rs. 412.611 Lac

Junior Engineer

Assistant Engineer

Executive Engineer

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur

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
		Total Length of Boundary Wall = 594.00 m.				
		New Construction : 128.00 m. Raising & Repair : 466.00 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	57.34 cum	230.50	13217.00
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	57.34 cum	74.50	4272.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	3.41 cum	204.40	697.00
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	66.03 sqm	253.80	16758.00
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	3.41 cum	2775.70	9465.00
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	10.69 cum	6035.20	64516.00
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	43.77 cum	6644.60	290834.00
8	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
9	5.22.7A	TMTC-500 8mm dia	kg	3300 kg	56.00	184800.00
9.1	5.22.7b	TMTC-500 10mm dia	kg	1750 kg	54.70	95725.00
9.2	5.22.7C	TMTC-500 12mm dia	kg	3650 kg	53.40	194910.00
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	33.98 sqm	169.00	5743.00
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	125.40 sqm	357.60	44843.00

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	282.40 sqm	261.70	73904.00
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	100 cum	5003.90	502542.00
12.3	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	2108.70 sqm	101.20	213400.00
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	8910.00 kg	86.00	766260.00
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	2108.70 sqm	71.10	149929.00
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	356.40 sqm	22.80	8126.00
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	356.40 sqm	54.10	19281.00
16.3		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
16.4		Local Sand	cum	4.73 cum	181.50	858.00
16.5		Coarse Sand	cum	82.49 cum	714.70	58956.00
16.6		Stone Chips	cum	49.50 cum	1543.10	76383.00
16.7		Bricks	%o no.	51743 no.	531.00	27476.00
16.8		Cement	MT	36.950 MT	282.30	10431.00
16.9		Steel	MT	8.700 MT	282.30	2456.00
17.3		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
17.4		Bricks	%o no.	51743 no.	370.80	19186.00
17.5		Cement	MT	36.950 MT	319.00	11787.00
		Grand Total				2866755.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur

PRINCIPAL QUARTER & STAFF QUARTER

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	382.11 cum	230.50	88076.00
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		806.00	0.00
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	382.11 cum	74.50	28467.00
4	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	101.79 cum	204.40	20806.00
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	253.80 sqm	253.80	64414.00
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	12.20 cum	3323.10	40542.00
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	66.36 sqm	799.40	53048.00
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	239.72 sqm	766.30	183697.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (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	466.65 sqm	1923.90	897790.00
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	78.29 cum	6035.20	472496.00
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 (1 cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	cum	25.81 cum	6644.60	171497.00
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-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	156.58 cum	5319.10	832865.00
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	9.19 cum	4490.60	41269.00
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	190.35 cum	5003.90	952492.00
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	510.06 sqm	608.40	310321.00
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	510.06 sqm	55.40	28257.00
13	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	sqm	1012.89 sqm	140.40	142210.00
13	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	1952.37 sqm	101.20	197580.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
14	13.24.2	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)	sqm	500.63 sqm	87.40	43755.00
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 sqm	267.70	58894.00
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	3465.89 sqm	118.40	410361.00
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	1012.89 sqm	71.10	72016.00
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	2453.00 sqm	69.10	169502.00
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 sqm	26.70	6459.00
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	89.88 sqm	22.80	2049.00
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	316.68 sqm	54.10	17132.00
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	958.00 kg	70.90	67922.00
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	125.37 sqm	1698.20	212903.00
19	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	59 no.	69.40	4095.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
20	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	59 no.	111.70	6590.00
21	9.98	Providing and fixing alluminium 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	59 no.	69.60	4106.00
22	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	59 no.	218.70	12903.00
23	9.101.2	Providing and fixing alluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	each	59 no.	83.80	4944.00
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. lugs10cm 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	69.36 sqm	3175.00	220218.00
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. lugs10cm 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	4.32 sqm	3181.80	13745.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	2333.00 kg	86.00	200638.00
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	17650 kg	56.00	988400.00
26.2	5.22.7B	TMTC-500 10mm dia	kg	5350 kg	54.70	292645.00
26.3	5.22.7C	TMTC-500 12mm dia	kg	6450 kg	53.40	344430.00
26.4	5.22.7D	TMT-500 16mm dia	kg	7500 kg	54.40	408000.00
26.5	5.22.7E	TMT-500 20mm dia	kg	8550 kg	53.60	458280.00
26.5	5.22.7F	TMT-500 25mm dia	kg	8000 kg	53.60	428800.00
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 no.	97.00	8730.00
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 kg	90.70	40815.00
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 sqm	359.80	16724.00
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	100.62 sqm	169.00	17005.00
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	691.06 sqm	261.70	180850.00
32	5.9.6	Centering and shuttering including strutting, propping etc. and removal of form for Columns, pillars, piers, abutments, posts and struts	sqm	258.12 sqm	357.60	92304.00
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	703.38 sqm	291.00	204684.00
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	60.00 m	212.40	12744.00
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	60 no.	144.50	8670.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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 no.	3049.30	6099.00
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 no.	2903.00	29030.00
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	5 no.	6205.20	31026.00
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 no.	1604.90	12839.00
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	5 no.	7099.60	35498.00
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	20 no.	76.10	1522.00
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	12 no.	78.50	942.00
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	10 no.	636.90	6369.00
42	17.33	Providing and fixing 600 x 120 x 5 mm glass shelf with edges round off, supported on anodised alluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	10 no.	473.70	4737.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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.	75.00 m.	221.4	16605.00
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.	100.00 m.	147.30	14730.00
44.2	18.9.3	25 mm nominal outer dia Pipes (External work)	m.	50.00 m.	193.60	9680.00
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	2000.00 litre	6.60	13200.00
46	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	each	18 no.	481.60	8669.00
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 no.	175.30	3506.00
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.	40.00 m.	329.40	13176.00
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 no.	3384.80	20309.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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 no.	5352.70	10705.00
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 no.	28775.50	28776.00
52	CST	Construction of Septic Tank complete (as per detailed)	each	1 no.	84878.00	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 no.	60432.00	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 point	567.00	11340.00
54.2	1.3.3	Group C	point	120 point	675.00	81000.00
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	4 point	720.00	2880.00
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.	380.00 m.	193.00	73340.00
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.	300.00 m.	150.00	45000.00
57.2	1.7.3	2x4 sqmm + 1x4 sqmm earth wire (For AC, Industrial Socket)	m.	10.00 m.	193.00	1930.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
57.3	1.7.5	2x10 sqmm + 1x6 sqmm earth wire	m.	10.00 m.	417.00	4170.00
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.	300.00 m.	19.00	5700.00
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.	300.00 m.	24.00	7200.00
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 no.	199.00	5970.00
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 no.	313.00	4695.00
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 no.	98.00	4900.00
62.2	1.24.2	2 way, 5/6 A switch	each	6 no.	108.00	648.00
62.3	1.24.3	15/16 A switch	each	10 no.	125.00	1250.00
62.4	1.24.4	3 pin 5/6 A socket outlet	each	30 no.	120.00	3600.00
62.2	1.24.6	Telephone socket outlet	each	10 no.	103.00	1030.00
62.5	1.24.7	TV antenna socket outlet	each	15 no.	103.00	1545.00
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 no.	387.00	9288.00
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 no.	35.00	1400.00
65	1.34	Supplying and fixing batten / angle holder including connection etc as required.	each	50 no.	48.00	2400.00
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 no.	208.00	4160.00
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 no.	819.00	6552.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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 no.	2971.00	17826.00
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 no.	3277.00	19662.00
72	2.14	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required	each	40 no.	16.00	640.00
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	2.00 set	11703.00	23406.00
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.	20.00 m.	18.00	360.00
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.	100.00 m.	141.00	14100.00
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.		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.		149.00	
79	2.3	Supplying and fixing following capacity TP&N disconnecter 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 no.	371.00	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.	20.00 m.	67.00	1340.00
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.	20.00 m.	86.00	1720.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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 no.	6360.00	6360.00
84		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
84.1		Local Sand	cum	107.73 cum	181.50	19553.00
84.2		Coarse Sand	cum	243.23 cum	714.70	173836.00
84.3		Stone Chips	cum	232.44 cum	1543.10	358678.00
84.4		Bricks	%o no.	136972 no.	531.00	72732.00
84.6		Cement	MT	194.950 MT	282.30	55034.00
84.7		Steel	MT	53.500 MT	282.30	15103.00
88		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
88.1		Bricks	%o no.	136972 no.	370.80	50789.00
88.2		Cement	MT	194.950 MT	319.00	62189.00
		Total (Scheduled Item)				11143565.00
		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	40.00 m	350.00	14000.00
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 no.	370.00	3700.00
90.4	SP05	DOOR BEND 110 mm dia	each	20 no.	250.00	5000.00
90.5	SP06	BEND 45 / 87.5 degree 110 mm dia	each	10 no.	150.00	1500.00
90.6	SP07	VENT COWEL 110 mm dia	each	8 no.	60.00	480.00
90.7	SP08	FLOOR TRAP 110X110 mm dia	each	12 no.	400.00	4800.00
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 no.	8000.00	80000.00
		Total (Non Scheduled Item)				109480.00
		Grand Total				11253045.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur

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	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	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	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	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	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	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	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, Providing M-25 grade R.C.C. instead of M-20 grade R.C.C	cum	4.29	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	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	5003.90	41682.00
11	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	37.21	101.20	3766.00
12	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	sqm	66.22	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	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	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 concreete 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	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	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	2.00	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	1.00	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	1.00	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	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	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	1200.00	56.00	67200.00
22.2	5.22.7C	TMTC-500 12mm dia	kg	1000.00	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	1.00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	32.00	192.00
38.2	1.23.4	3 pin 5/6 A socket outlet	each	2	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	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	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	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	340.00	340.00
43		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
43.1		Local Sand	cum	12.01	181.50	2180.00
43.2		Coarse Sand	cum	11.91	714.70	8512.00
43.3		Stone Chips	cum	11.58	1543.10	17869.00
43.4		Bricks	%o no.	5864	531.00	3114.00
43.6		Cement	MT	6.800	282.30	1920.00
43.7		Steel	MT	2.200	282.30	621.00
44		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
44.1		Bricks	%o no.	5864	370.80	2174.00
44.2		Cement	MT	6.800	319.00	2169.00
		Total (Scheduled Item)				419555.00
		Non Schedule Items (on Tendered Rate)				
45	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	8000.00	8000.00
		Total (Non Scheduled Item)				8000.00
		Grand Total				427555.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur

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	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	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	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	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	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	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	54.10	292.00
9		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
9.1		Local Sand	cum	0.06	181.50	11.00
9.2		Coarse Sand	cum	0.11	714.70	79.00
9.3		Stone Chips	cum	0.23	1543.10	355.00
9.4		Bricks	%o no.	30	531.00	16.00
9.5		Cement	MT	0.05	282.30	14.00
10		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
10.1		Bricks	%o no.	30	370.80	11.00
10.2		Cement	MT	0.050	319.00	16.00
		Total (Cost of one set)				5721.00
		Hence Cost for 6 set (for 3 Buildings)				34326.00
		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	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	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	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	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	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	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	5003.90	29723.00
6	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	12.69	101.20	1284.00
7		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
7.1		Local Sand	cum	8.61	181.50	1563.00
7.2		Coarse Sand	cum	2.49	714.70	1780.00
7.3		Stone Chips	cum	1.52	1543.10	2346.00
7.4		Bricks	%o no.	2965	531.00	1574.00

7.5		Cement	MT	1.00	282.30	282.00
8		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
8.1		Bricks	%o no.	2965	370.80	1099.00
8.2		Cement	MT	1.000	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	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	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	3323.10	3090.00
7		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
8.3		Local Sand	cum	22.50	181.50	4084.00
8.4		Coarse Sand	cum	0.41	714.70	293.00
8.5		Stone Chips	cum	0.83	1543.10	1281.00
8.7		Cement	MT	0.30	282.30	85.00
9.2		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
9.4		Cement	MT	0.300	319.00	96.00
Total (Scheduled Item)						895877.00
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	48.00	1000.00	48000.00
2	AR	Labour and material cost of Steel letter including fixing at site all complete with taxes, etc.	/ letter	60.00	300.00	18000.00
3		Signage in front of each Building	each	4.00	200.00	800.00

4		Signage in front of each Room (made on SS plate)	each	185.00	4400.00	814000.00
5		Signage to show the direction of different buildings / activities (made on SS plate)	each	10.00	1000.00	10000.00
		For 6 no. Seating Benches				
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	6.00	13000.00	78000.00
		Total (Non Scheduled Item)				968800.00
		Grand Total				1864677.00

	5001
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	5003
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	5006

6001
6002
5004

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur

CAMPUS DEVELOPMENT & LAND SCAPPING

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
		Campus Filling				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	1747.00	204.40	357087.00
1.1		Carriage of Local sand by an average lead 3.00 km	cum	1747.00	181.50	317081.00
		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	265.00	42.20	11183.00
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	38.48	85.50	3290.00
3	23.2d	Carriage of good Earth from a ave. lead of 2 km.	cum	38.48	186.00	7157.00
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	9.62	25.00	241.00
5	23.3	Supplying and stacking Sludge at site including royalty and carriage (Sludge measured in stacks will be reduced by 8% for payment)	cum	9.62	241.60	2324.00
6	23.9	Mixing earth and sjudge or manure in porportion specified or directed.	cum	57.72	12.40	716.00
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	57.72	18.00	1039.00
		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 Submerssible pump (as per detailed attached)	each	1.00	60432.00	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.				

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	18.9.2	20 mm nominal outer dia Pipes (External work)	m.	310.00	147.30	45663.00
	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	15.00	138.70	2081.00
		APPROACH ROAD, PATHWAYS & DRAIN				
		Length of Road = 376.00 m., Length of Drain = 92.00 m.				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	250.04	204.40	51108.00
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	1146.80	253.80	291058.00
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	1146.80	407.00	466748.00
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	172.02	3323.10	571640.00
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	112.80	169.00	19063.00
	15.9 (RCD)	Providing Dry Rubble flooring with approved size and type of Rubble (Stone), all complete	cum	67.68	1336.00	90420.00
	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 M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 408.) Using Concrete mixer	m	752.00	362.00	272224.00
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	92.00	970.50	89286.00
12		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
12.1		Local Sand	cum	318.85	181.50	57871.00
12.2		Coarse Sand	cum	76.55	714.70	54710.00
12.3		Stone Chips	cum	153.10	1543.10	236249.00
12.4		Bricks	%o no.	98717	531.00	52419.00

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
12.5		Cement	MT	55.05	282.30	15541.00
13		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
13.1		Bricks	%o no.	98717	370.80	36604.00
13.2		Cement	MT	55.050	319.00	17561.00
		Total (Scheduled Item)				3130806.00
		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	150.00	6000.00
15.4		Marigold	each	40.00	50.00	2000.00
15.5		Roses	each	30.00	100.00	3000.00
15.6		Oleander	each	20.00	100.00	2000.00
15.7		Cycus	each	10.00	250.00	2500.00
15.8		Golden Duranta (ht 6")	each	20.00	300.00	6000.00
15.9		Hamelia	each	10.00	100.00	1000.00
16		Plumeria Albba (Champa)	each	10.00	100.00	1000.00
16.1		Lantanna Depressa	each	10.00	100.00	1000.00
16.2		Best quality healthy trees				
16.3		Amaltas	each	25.00	300.00	7500.00
16.4		Ashoka	each	25.00	150.00	3750.00
16.5		Royal Palm	each	20.00	400.00	8000.00
16.6		Neem	each	5.00	150.00	750.00
		Total (Non Scheduled Item)				44500.00
		Grand Total				3175306.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur						
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
		Cycle / Motor Cycle Stand And Portico for Institutional Building				
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	25.67 cum	204.40	5247.00
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	256.65 sqm	253.80	65138.00
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	31.41 cum	3323.10	104379.00
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	5125.00 kg	92.30	473038.00

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 of purlins, rafters and trusses 0.8mm thick with zinc coating not less than 275 gm/sqm	sqm	228.80 sqm	729.60	166932.00
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	26.90 m	499.90	13447.00
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	714.70	13108.00
13.3		Stone Chips	cum	29.44 cum	1543.10	45429.00
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 Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
14.1		Bricks	%o no.	12439 no.	370.80	4612.00
14.2		Cement	MT	11.500 MT	319.00	3669.00
		Total				1030393.00
		Grand Total				1030393.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur						
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	16 no.	22703.00	363248.00
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	5 no.	24238.00	121190.00
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	21 no.	6132.00	128772.00
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	26 no.	9624.00	250224.00
5	XLPE6	Supplying of 2 core 6 sqmm XLPE PVC insulated and sheathed armoured cable with aluminium conductor of approved make for working voltage upto and including 1100 volts. (material rate x 1.15 x 1.01)	m.	375.00 m.	548.00	205500.00
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.	375.00 m.	149.00	55875.00
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.	260.00 m.	150.00	39000.00
		Total (Scheduled Item)				1163809.00
		Non Schedule Items (on Tendered Rate)				

8	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.	5000.00	50000.00
	Total (Non Scheduled Item)				50000.00
	Grand Total				1213809.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhagalpur					
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 PTEC at Nagarpara, Bhagalpur					
(FURNITURE AND FURNISHING)					
Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
A	Intititional Building				894780
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 no.	12000.00	1920000.00
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 no.	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 no.	8450.00	126750.00
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 no.	8450.00	126750.00

SI. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	3000.00	45000.00
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 no.	19500.00	39000.00
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 no.	19500.00	19500.00
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 no.	8840.00	8840.00
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 no.	3380.00	13520.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	12350.00	61750.00
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 no.	90000.00	360000.00
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 no.	4000.00	160000.00
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 no.	1430.00	85800.00
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 no.	20400.00	204000.00
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 no.	12350.00	61750.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	3000.00	60000.00
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 no.	24000.00	240000.00
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 no.	3900.00	156000.00
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 no.	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 no.	5000.00	5000.00
21	Single sheet bed (for Sick room) of standard ayush semi flower with Mattress	each	1 no.	39000.00	39000.00

SI. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	8840.00	8840.00
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 no.	8450.00	8450.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	2600.00	234000.00
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 no.	2700.00	21600.00
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 no.	1300.00	10400.00
4	Supplying and Instalation of 30 Ltr capacity water cooler voltas or equivalent make complete job as per direction of engineer encharge.	each	1 no.	25000.00	25000.00
5	Supplying and Instalation of Kent water purifier with UV protection complete job as per direction of engineer encharge.	each	1 no.	15000.00	15000.00
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 no.	6000.00	72000.00
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 no.	70000.00	70000.00
8	Supplying and testing and commissioning of Switcher Comtech make model all complete job.	each	1 no.	10000.00	10000.00
9	Supplying and testing and commissioning of colour TV monitors make sony/samsung 21" all complete job.	each	1 no.	10000.00	10000.00
10	Supplying and testing and commissioning of cable for power I/P to caera laying of cable all complete job.	mtr	300.00 mtr	25.00	7500.00
11	Supplying and testing and commissioning of RJ-6 wire all complete job.	mtr	500.00 mtr	25.00	12500.00
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	500.00 mtr	50.00	25000.00
	Provision for Play & Sports Equipments	LS			120000.00
	Total (Institutional Building)				4599700.00
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 no.	9500.00	1976000.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	3900.00	780000.00
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 no.	3000.00	600000.00
4	King Size Double Bed for Warden as per approved sample.	each	2 no.	21000.00	42000.00
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 no.	11000.00	528000.00
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 no.	3000.00	600000.00
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 no.	19500.00	39000.00
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 no.	8840.00	17680.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
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 no.	3380.00	13520.00
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 no.	16000.00	3216000.00
12	Kitchen wall Storage of size 500 x 695 x381 mm as per approved sample	each	10 no.	12500.00	125000.00
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 no.	1430.00	5720.00
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 no.	3000.00	150000.00
B.2	Fixture :				
1	Supplying errection 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 no.	2600.00	369200.00
2	Supplying errection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete.-225mm Sweep	each	12 no.	1300.00	15600.00
3	Supplying and Instalation of 30 Ltr capacity water cooler voltas or equivalent make complete job as per direction of engineer encharge.	each	2 no.	25000.00	50000.00
4	Supplying and Instalation of Kent water purifier with UV protection complete job as per direction of engineer encharge.	each	2 no.	15000.00	30000.00
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 no.	30000.00	60000.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
	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)				8783720.00
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 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 no.	8840.00	8840.00
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 no.	3380.00	13520.00
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 no.	19500.00	19500.00

Sl. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
4	STEEL ALMIRAH : Steel Almira 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 no.	20400.00	40800.00
5	SOFA SET : 2-Seater Sofa as per approved sample	each	1 no.	28500.00	28500.00
6	SOFA SET : 1-Seater Sofa as per approved sample	each	2 no.	11000.00	22000.00
7	SOFA SET : Central Table with Glazed top of approved sample	each	1 no.	10000.00	10000.00
8	DINING TABLE SET : Dining Table set with Glazed top with 6 no. Armless Dining Chair as per approved sample	each	1 no.	40000.00	40000.00
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 no.	3000.00	3000.00
10	King Size Double Bed for Warden as per approved sample.	each	1 no.	21000.00	21000.00
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 no.	2600.00	13000.00
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 no.	1300.00	3900.00
	Total (Pricipal Quarter)				224060.00
	GRAND Total (Complete Furniture & Fixture)				13607480.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Nagarpara, Bhaga

MAIN GATE

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	16.46	16.46 cum	230.50
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	16.46 cum	74.50
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.92	0.92 cum	204.40
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	8.00 sqm	253.80
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	0.80 cum	2775.70
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	2.47 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, 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	8.40 cum	6644.60
8	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	3.76 sqm	169.00
9	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	68.00 sqm	357.60
10	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete.				
10.1	5.22.7A	TMTC-500 8mm dia	kg	600.00	600.00 kg	56.00
10.2	5.22.7C	TMTC-500 12mm dia	kg	1350.00	1350 kg	53.40
11	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	3 cum	5237.70
12	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	10.00	10 sqm	101.20

Sl. No.	SOR Item No.	Item of Work	Unit	Quantity	Quantity	Rate (Rs.)
13	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	58 sqm	3573.70
14	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	680.00 kg	76.70
15	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	13.50 sqm	54.10
16		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
16.1		Local Sand	cum	1.08	1.08 cum	181.50
16.2		Coarse Sand	cum	8.20	8.20 cum	714.70
16.3		Stone Chips	cum	9.99	9.99 cum	1543.10
16.4		Bricks	%o no.	1493	1493 no.	531.00
16.5		Cement	MT	4.950	4.950 MT	282.30
16.6		Steel	MT	1.950	1.950 MT	282.30
17		Add extra cost of material for Bhagalpur Zone w.r.t Gaya Zone (as per BCD SOR)				
17.1		Bricks	%o no.	1493	1493 no.	370.80
17.2		Cement	MT	4.950	4.950 MT	319.00
		Total Cost for 1 no. gate				
		Hence Cost for 2 no. main gate				

Ipur
Amount (Rs.)
7
3794.00
1226.00
188.00
2030.00
2221.00
14907.00
55815.00
635.00
24317.00
33600.00
72090.00
13094.00
1012.00

Amount (Rs.)
207203.00
52156.00
730.00
196.00
5861.00
15416.00
793.00
1397.00
550.00
554.00
1579.00
511364.00
1022728.00

Detailed Quantity calculation for Phase II work at PTEC Campus at Nagarpara, Bhagalpur

Sl. No.	Description	D	Details	Quantity
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Construction of Guard Room

1 Earthwork in excavation in Foundation

$$4 \times 1.20 \times 1.20 \times 2.25 = 12.96 \text{ cum}$$

12.96 cum

Total

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

$$12.96 \text{ cum}$$

12.96 cum

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

$$4 \times 1.20 \times 1.20 \times 0.08 = 0.46 \text{ cum}$$

$$1 \times 3.05 \times 3.05 \times 1.20 = 11.16 \text{ cum}$$

= 11.62 cum

Providing Designation 100A Brick flat Soling

$$4 \times 1.20 \times 1.20 = 5.76 \text{ sqm}$$

$$4 \times 3.30 \times 0.25 = 3.30 \text{ sqm}$$

$$1 \times 3.05 \times 3.05 = 9.30 \text{ sqm}$$

$$1 \times 1.20 \times 1.00 = 1.20 \text{ sqm}$$

= 19.56 sqm

PCC 1:3:6

$$4 \times 1.20 \times 1.20 \times 0.075 = 0.43 \text{ cum}$$

$$1 \times 3.05 \times 3.05 \times 0.075 = 0.70 \text{ cum}$$

$$1 \times 1.20 \times 1.00 \times 0.075 = 0.09 \text{ cum}$$

= 1.22 cum

RCC 1:1.5:3 in Foundation & Plinth

$$4 \times 1.20 \times 1.20 \times 0.75 = 4.32 \text{ cum}$$

$$4 \times 3.30 \times 0.25 \times 0.30 = 0.99 \text{ cum}$$

$$1 \times 3.20 \times 0.25 \times 0.300 = 0.24 \text{ cum}$$

= 5.55 cum

RCC 1:1.5:3 in Columnn

$$4 \times 0.30 \times 0.30 \times 6.75 = 2.43 \text{ cum}$$

= 2.43 cum

RCC 1:1.5:3 in beam, Lintel & Slab

$$4 \times 3.30 \times 0.25 \times 0.20 = 0.66 \text{ cum}$$

$$4 \times 3.30 \times 0.25 \times 0.30 = 0.99 \text{ cum}$$

$$1 \times 3.96 \times 3.96 \times 0.15 = 2.35 \text{ cum}$$

$$2 \times 2.50 \times 0.45 \times 0.08 = 0.17 \text{ cum}$$

$$1 \times 1.20 \times 1.00 \times 0.10 = 0.12 \text{ cum}$$

= 4.29 cum

Brick work with bricks of class designation 100A in Foundation and plinth

$$4 \times 3.05 \times 0.25 \times 1.20 = 3.66 \text{ cum}$$

$$1 \times 1.00 \times 1.00 \times 0.60 = 0.60 \text{ cum}$$

$$1 \times 1.00 \times 1.00 \times 0.30 = 0.30 \text{ cum}$$

		=	4.56 cum
Brick work with bricks of class designation 100A in superstructure in cement			
	4 x 3.05 x 0.25 x 3.15	=	9.61 cum
d	1 x 1.00 x 0.25 x 2.10	=	-0.53 cum
d	2 x 2.00 x 0.25 x 0.75	=	-0.75 cum
		=	8.33 cum
12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)			
	4 x 3.05 x 3.05	=	37.21 sqm
		=	37.21 sqm
20mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)			
	4 x 3.56 x 4.65	=	66.22 sqm
		=	66.22 sqm
6mm thick Cement plaster in ceiling of mix 1:4 (1 cement : 4 coarse sand)			
	1 x 3.05 x 3.05	=	9.30 sqm
		=	9.30 sqm
Kotah stone slab flooring			
	1 x 3.05 x 3.05	=	9.30 sqm
	1 x 1.00 x 1.00	=	1.00 sqm
	3 x 1.00 x 0.45	=	1.35 sqm
	2 x 2.50 x 0.25	=	1.25 sqm
	4 x 3.05 x 0.15	=	1.83 sqm
		=	14.73 sqm
Providing and fixing T-iron frames for door chokhat			
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 x 1.00 x 2.10	= 2.10 sqm
		=	2.10 sqm
Providing and fixing Gazed Steel window (sliding type)			
	W	2 x 2.00 x 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 of

PCC	16 x 1.20 x 0.08 =	1.44 sqm
	1 x 3.40 x 0.08 =	0.26 sqm
RCC	16 x 1.20 x 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 cantilevers.

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 platform.

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

$$= \quad \mathbf{8.27 \text{ cum}}$$

3 Brick Flat Soling

$$\begin{aligned} 1 \times 17.89 \times 0.45 &= 8.05 \text{ sqm} \\ 1 \times 6.10 \times 0.45 &= 2.75 \text{ sqm} \\ 1 \times 3.95 \times 0.45 &= 1.78 \text{ sqm} \\ 1 \times 2.11 \times 0.45 &= 0.95 \text{ sqm} \\ 2 \times 4.00 \times 0.45 &= 3.60 \text{ sqm} \end{aligned}$$

$$= \quad \mathbf{17.13 \text{ sqm}}$$

4 PCC 1:2:4

$$\begin{aligned} 1 \times 17.89 \times 0.45 \times 0.10 &= 0.81 \text{ cum} \\ 1 \times 6.10 \times 0.45 \times 0.10 &= 0.27 \text{ cum} \\ 1 \times 3.95 \times 0.45 \times 0.10 &= 0.18 \text{ cum} \\ 1 \times 2.11 \times 0.45 \times 0.10 &= 0.09 \text{ cum} \\ 2 \times 4.00 \times 0.45 \times 0.10 &= 0.36 \text{ cum} \end{aligned}$$

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

5 Brick work in CM 1:6

$$\begin{aligned} 1 \times 19.89 \times 0.25 \times 0.75 &= 3.73 \text{ cum} \\ 1 \times 8.18 \times 0.25 \times 0.60 &= 1.23 \text{ cum} \\ 1 \times 5.95 \times 0.25 \times 0.45 &= 0.67 \text{ cum} \\ 1 \times 4.11 \times 0.25 \times 0.30 &= 0.31 \text{ cum} \end{aligned}$$

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

6 12 mm Cement Plaster in CM 1:6

$$\begin{aligned} 1 \times 12.48 \times 0.75 &= 9.36 \text{ sqm} \\ 2 \times 1.00 \times 0.60 &= 1.20 \text{ sqm} \\ 2 \times 1.00 \times 0.45 &= 0.90 \text{ sqm} \\ 1 \times 4.11 \times 0.30 &= 1.23 \text{ sqm} \end{aligned}$$

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

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,

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

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

3 Interlocking Cement Concrete paver blocks

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

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

4 PCC 1:2:4

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

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

Construction of Approach Road / Pathways

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

$$1 \times 376.00 \times 3.05 \times 0.10 = 114.68 \text{ cum}$$

$$1 \times 376.00 \times 1.20 \times 0.30 = 135.36 \text{ cum}$$

$$= \mathbf{250.04 \text{ cum}}$$

Providing Designation 100A Brick flat Soling

$$1 \times 376.00 \times 3.05 = 1146.80 \text{ sqm}$$

$$= \mathbf{1146.80 \text{ sqm}}$$

Providing Designation 100A one Brick on Edge Soling

$$1 \times 376.00 \times 3.05 = 1146.80 \text{ sqm}$$

$$= \mathbf{1146.80 \text{ sqm}}$$

PCC 1:2:4

$$1 \times 376.00 \times 3.05 \times 0.150 = 172.02 \text{ cum}$$

$$= \mathbf{172.02 \text{ cum}}$$

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

$$\text{PCC} \quad 2 \times 376.00 \times 0.15 = 112.80 \text{ sqm}$$

$$= \mathbf{112.80 \text{ sqm}}$$

Providing Dry Rubble flooring with approved size and type of Rubble

$$2 \times 376.00 \times 0.60 \times 0.15 = 67.68 \text{ cum}$$

$$= \mathbf{67.68 \text{ cum}}$$

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

$$2 \times 376.00 = 752.00 \text{ m}$$

$$= \mathbf{752.00 \text{ m}}$$

Construction of Main Gate

1 Earthwork in excavation in Foundation

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

$$\mathbf{\text{Total}} \quad \mathbf{16.46 \text{ cum}}$$

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

$$16.46 \text{ cum}$$

$$\mathbf{16.46 \text{ cum}}$$

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

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

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

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 concrete.

For PCC	$2 \times 8.00 \times 0.10 =$	1.60 sqm
For RCC	$2 \times 7.20 \times 0.15 =$	2.16 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

$2 \times 4.00 \times 0.95 =$	7.60 sqm
$2 \times 2 \times 2.50 \times 5.00 =$	50.00 sqm
$2 \times 2.50 \times 1.00 =$	5.00 sqm
$2 \times 9.00 \times 0.30 =$	5.40 sqm
	$= \underline{\underline{68.00 \text{ sqm}}}$

Reinforcement for RCC Work

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

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 cement

$$2 \times 2 \times 0.50 \times 0.25 \times 5.00 = 2.50 \text{ cum}$$

$$= \underline{\underline{2.50 \text{ cum}}}$$

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

$$2 \times 2 \times 0.50 \times 5.00 = 10.00 \text{ sqm}$$

$$= \underline{\underline{10.00 \text{ sqm}}}$$

Granite stone slab cladding

$2 \times 4.40 \times 5.10 =$	44.88 sqm
$2 \times 2 \times 2.50 \times 0.30 =$	3.00 sqm
$2 \times 2.50 \times 1.00 =$	5.00 sqm
$2 \times 1.60 \times 1.00 =$	3.20 sqm
$2 \times 0.30 \times 1.00 =$	0.60 sqm

$$2 \times 0.65 \times 1.00 = 1.30 \text{ sqm}$$

$$= \mathbf{57.98 \text{ sqm}}$$

M S Grill gate

$$580.00 \text{ kg}$$

$$= \mathbf{580.00 \text{ kg}}$$

Synthetic enamel paint over Steel surface

$$1 \times 4.50 \times 3.00 = 13.50 \text{ sqm}$$

$$= \mathbf{13.50 \text{ sqm}}$$

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	26	36.19		
				F-3	1.20	1.08	1.45	7	13.15		
				Below Tie Beam		128.00	0.25	0.25	1	8.00	
											57.34 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.		Excavated Qty.				57.340	57.34		
				Qty same as excavation							
											57.34 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	26	2.50		
				F-3	1.200	1.080	0.100	7	0.91		
											3.41 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		26	24.96		
				F-3	1.200	1.080		7	9.07		
				Below Tie Beam		128.00	0.250		1	32.00	
											66.03 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	26	2.50		
				F-3	1.200	1.080	0.100	7	0.91		
									(A)	3.41	
									(A)	3.410	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	26	3.74		
				Pedestal In Foundation	F-1 &F-2	1.050	0.600	0.150	26	2.46	
				Column up to tie beam	F-1 &F-2	0.250	0.300	0.750	26	1.46	
				Raft In Foundation	F-3	1.200	1.080	0.150	7	1.36	
				Pedestal In Foundation	F-3	1.050	0.800	0.150	7	0.88	
				Column up to tie beam	F-3	0.250	0.300	0.750	14	0.79	
											10.69 cu.m
	R.C.C. WORK ABOVE TIE LVL.										
7	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 stone aggregate)		Stiffner	0.250	0.300	2.100	40	6.30		
					Tie beam	128.00	0.250	0.250	1	8.00	
					At top	128.00	0.300	0.100	1	3.84	
						466.000	0.300	0.100	1	13.98	
						466.000	0.250	0.100	1	11.65	
											43.77 cu.m
	BRICK WORK										
8	6.1.14A	Brick work with bricks of class designation 100A in superstructure above plinth level	Wall		128.00	0.250	1.500	1	48.00		
						466.000	0.250	0.450	1	52.43	

	6.3A	upto five floor cement mortar 1:6 (Cement :6 coarse sand)								(A)	100.43	
										(A - B)	100.43	cu.m
PLASTER WORK												
9	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	Wall	128.00		1.600	2	409.60				
				128.00		0.350	1	44.80				
			Stiffner	1.100		0.600	0	0.00				
				466.000		1.600	2	1491.20				
				466.000		0.350	1	163.10				
								2108.70				
								2108.70				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								2108.70	sq.m
11	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved	Steel work	594.00		0.600	1	356.40				
								356.400				sq.m
12	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give	Steel work	594.00		0.600	1	356.40				
								356.400				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	128.00	0.60	1	76.80				sq.m
				466.00		0.600	1	279.60				sq.m
						Per sq m. @ 25kg		8910.00				
						Total		8910.00				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									3300	Kgs.
	5.22.7B	TMTC-500 -10mm dia									1750	Kgs.
	5.22.7C	TMTC-500 -12mm dia									3650	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	52	6.24				
				F-1 &F-2	1.200	0.150	52	9.36				
				F-3	1.200	0.150	14	2.52				
				F-3	1.080	0.150	14	2.27				
			PCC		4.000	0.100	26	10.40				
			PCC		4.560	0.100	7	3.19				
								33.98				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	40	92.40				
			Below TB		1.10	0.75	40	33.00				
								125.40				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		128.00	0.250	2	64.000				
			Top		128.00	0.250	1	32.000				
					466.00	0.100	2	93.200				
					466.00	0.100	2	93.200				
								282.400				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									8.700	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	66.03 sqm.				2131	1.32
2	Brick work in CM (1:6)	100.43 cum.	6276.88	26.11		49612	
3	12 mm Cement Plaster in CM (1:6)	2108.70 sqm.	7591.32	31.63			
4	PCC M100 (1:3:6)	3.41 cum.	750.20	1.60	3.21		
5	RCC M250	54.46 cum.	22328.60	23.15	46.29		
6	Sand in filling	3.41 cum.					3.41
Total			36947.00	82.49	49.50	51743	4.73
			36.950				
			MT				
Development of Parking Area							
1	PCC M150 (1:2:4)	0.93 cum.	297.60	0.41	0.83		
2	Sand in filling	22.50 cum.					22.50
	Tiles Flooring	sqm.					
Total			297.60	0.41	0.83		22.50
			0.300				
			MT				
APPROACH ROAD, PATHWAYS & DRAIN							
1	Brick edge soling	1146.80 sqm.				61698	45.87
2	Brick flat soling	1146.80 sqm.				37019	22.94
3	PCC M150 (1:2:4)	172.02 cum.	55046.40	76.55	153.10		
4	Sand in filling	250.04 cum.					250.04
Total			55046.40	76.55	153.10	98717	318.85
			55.050				
			MT				
MAIN GATE							
1	Brick flat soling	8.00 sqm.				258	0.16
2	Brick work in CM (1:6)	2.50 cum.	156.25	0.65		1235	
3	12 mm Cement Plaster in CM (1:6)	10.00 sqm.	36.00	0.15			
4	Marble / Granite / Kotah flooring	57.98 sqm.	86.39	2.40			
5	PCC M100 (1:3:6)	0.80 cum.	176.00	0.38	0.75		
6	RCC M250	10.87 cum.	4456.70	4.62	9.24		
7	Sand in filling	0.92 cum.					0.92
Total			4911.34	8.20	9.99	1493	1.08
			4.950				
			MT				

Sl. no.	Particulars of Item	Quantity		Cement in kg.	Sand in cum.	Stone chips in cum.	Bricks in no.	Local Sand in cum.
8	Brick edge soling	1146.80	sqm.				61698	45.87
9	Brick flat soling	1146.80	sqm.				37019	22.94
10	PCC M150 (1:2:4)	172.02	cum.	55046.40	76.55	153.10		
11	Sand in filling	250.04	cum.					250.04
	Total			55046.40	76.55	153.10	98717	318.85
				55.050				
				MT				

DETAILED ESTIMATE FOR PROPOSED OF PRINCIPAL RESIDENCE & STAFF QUARTER
BIHAR STATE EDUCATIONAL INFRASTRUCTURE CORPORATION LTD., SHIKSHA BHAWAN, SAIDPUR, PATNA
Based on SOR FOR BCD BIHAR - 2016
CIVIL WORKS

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit				
				L	B	H/Depth	Nos						
EARTHWORK IN EXCAVATION													
1	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. All Kind of soil	Foundation	F-4	3.000	9.200	2.225	1	61.410				
				F-5	3.250	3.250	2.225	2	47.000				
				F-9	3.400	9.400	2.225	1	71.110				
				F-10	3.400	5.000	2.225	1	37.830				
				F-11	9.300	5.000	2.225	1	103.460				
				F-12	3.300	3.500	2.225	1	25.700				
				F-13	3.300	3.300	2.225	1	24.230				
											0.000		
						Tie Beam	TB-2	13.680	0.250	0.525	1	1.800	
							TB-4	7.010	0.250	0.525	1	0.920	
							TB-5	3.600	0.250	0.525	1	0.470	
							TB-6	8.755	0.250	0.525	1	1.150	
							TB-9	4.365	0.250	0.525	1	0.570	
											0.000		
						STEPS		2.800	1.270	0.300	1	1.070	
								3.345	1.270	0.300	1	1.270	
						Ramp		3.045	1.270	0.300	1	1.160	
								3.190	1.270	0.300	1	1.220	
						Main Entrance		3.345	0.250	0.300	2	0.500	
								1.270	0.250	0.300	1	0.100	
				3.045	0.250		0.300	2	0.460				
				1.270	0.250		0.300	1	0.100				
				3.190	0.250		0.300	2	0.480				
				1.270	0.250		0.300	1	0.100				
			Ramp wall										
									382.110 cu.m				
EARTH FILLING													
2	2.26	Filling available excavated earth (excluding rock) in trenches and plinth side of foundation etc. in layers not exceeding 20cm. thick in depth	Excavated					382.110	382.110				
									382.110 cu.m				
SAND FILLING													
3	2.28	Supplying and filling in plinth with local sand and under floots including watering, ramming consolidating and dressing complete.	Foundation	F-4	3.000	9.200	0.100	1	2.760				
				F-5	3.250	3.250	0.100	2	2.110				
				F-9	3.400	9.400	0.100	1	3.200				
				F-10	3.400	5.000	0.100	1	1.700				
				F-11	9.300	5.000	0.100	1	4.650				
				F-12	3.300	3.500	0.100	1	1.160				
				F-13	3.300	3.300	0.100	1	1.090				
						Tie Beam	TB-2	13.680	0.250	0.100	1	0.340	
							TB-4	7.010	0.250	0.100	1	0.180	
							TB-5	3.600	0.250	0.100	1	0.090	
							TB-6	8.755	0.250	0.100	1	0.220	
							TB-9	4.365	0.250	0.100	1	0.110	
						STEPS		2.800	1.270	0.150	1	0.530	
								3.345	1.270	0.150	1	0.640	
						Ramp		3.045	1.270	0.150	1	0.580	
								3.190	1.270	0.150	1	0.610	
								3.345	0.250	0.150	2	0.250	
						Main Entrance		1.270	0.250	0.150	1	0.050	
								3.045	0.250	0.150	2	0.230	
								1.270	0.250	0.150	1	0.050	
			Ramp wall										
									0.050				

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
				3.190	0.250	0.150	2	0.240	
				1.270	0.250	0.150	1	0.050	
							(A)	20.840	cu.m
		Flooring at ± 0.00 lvl.	Bed Room	3.350	4.265	0.900	1	12.860	
			Bed Room	3.350	4.115	0.900	1	12.410	
			Balcony	3.625	1.220	0.900	1	3.980	
			Balcony	3.045	1.220	0.900	1	3.340	
			Dining Room	3.045	4.265	0.900	1	11.690	
			Toilet Area	1.500	2.100	0.900	1	2.840	
			Toilet Area	1.545	2.100	0.900	1	2.920	
			Kitchen	2.100	2.975	0.900	1	5.620	
			Living Room	3.570	4.265	0.900	1	13.700	
			Guest Room	3.845	3.350	0.900	1	11.590	
							(B)	80.950	cu.m
							(A+B) :	101.790	cu.m
FLAT BRICK SOLING									
4	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering texes royalty all complete as per building specification and direction of E/I.							
			F-4	3.000	9.200		1	27.600	
			F-5	3.250	3.250		2	21.130	
			F-9	3.400	9.400		1	31.960	
			F-10	3.400	5.000		1	17.000	
			F-11	9.300	5.000		1	46.500	
			F-12	3.300	3.500		1	11.550	
			F-13	3.300	3.300		1	10.890	
							(A)	166.630	sq.m
			TB-2	13.680	0.250		1	3.420	
			TB-4	7.010	0.250		1	1.750	
			TB-5	3.600	0.250		1	0.900	
			TB-6	8.755	0.250		1	2.190	
			TB-9	4.365	0.250		1	1.090	
			STEPS	2.800	1.270		1	3.560	
			Ramp	3.345	1.270		1	4.250	
				3.045	1.270		1	3.870	
			Ramp wall	3.190	1.270		1	4.050	
				3.345	0.250		2	1.670	
				1.270	0.250		1	0.320	
				3.045	0.250		2	1.520	
				1.270	0.250		1	0.320	
				3.190	0.250		2	1.600	
			1.270	0.250		1	0.320		
								30.830	sq.m
							(A+B)	197.460	sq.m
			Bed Room	3.350	4.265		1	14.288	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit		
				L	B	H/Depth	Nos				
		Flooring at ± 0.00 lvl.	Bed Room	3.350	4.115		1	13.785			
			Balcony	3.625	1.220		1	4.423			
			Balcony	3.045	1.220		1	3.715			
			Dining Room	3.045	4.265		1	12.987			
			Toilet Area	1.500	2.100		1	3.150			
			Toilet Area	1.545	2.100		1	3.245			
			Kitchen	2.100	2.975		1	6.248			
			Living Room	3.570	4.265		1	15.226			
			Guest Room	3.845	3.350		1	12.881			
			Stair Room	4.265	2.250		1	9.596			
											99.540
							(A+B)+(C)	253.800	sq.m		
P.C.C.											
5	4.1.3	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)									
			F-4	3.000	9.200	0.075	1	0.225			
			F-5	3.250	3.250	0.075	2	0.488			
			F-9	3.400	9.400	0.075	1	0.255			
			F-10	3.400	5.000	0.075	1	0.255			
			F-11	9.300	5.000	0.075	1	0.698			
			F-12	3.300	3.500	0.075	1	0.248			
			F-13	3.300	3.300	0.075	1	0.248			
			TB-2	13.680	0.250	0.075	1	0.257			
			TB-4	7.010	0.250	0.075	1	0.131			
			TB-5	3.600	0.250	0.075	1	0.068			
			TB-6	8.755	0.250	0.075	1	0.164			
			TB-9	4.365	0.250	0.075	1	0.082			
			STEPS	2.800	1.270	0.075	1	0.267			
			Ramp	3.345	1.270	0.075	1	0.319			
				3.045	1.270	0.075	1	0.290			
				3.190	1.270	0.075	1	0.304			
				3.345	0.250	0.075	2	0.125			
			Ramp wall	1.270	0.250	0.075	1	0.024			
				3.045	0.250	0.075	2	0.114			
				1.270	0.250	0.075	1	0.024			
				3.190	0.250	0.075	2	0.120			
				1.270	0.250	0.075	1	0.024			
							(A)	4.730	cu.m		
			Bed Room	3.350	4.265	0.075	1	1.072			
			Bed Room	3.350	4.115	0.075	1	1.034			

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
			Balcony	3.625	1.220	0.075	1	0.332	
			Balcony	3.045	1.220	0.075	1	0.279	
			Dining Room	3.045	4.265	0.075	1	0.974	
			Toilet Area	1.500	2.100	0.075	1	0.236	
			Toilet Area	1.545	2.100	0.075	1	0.243	
			Kitchen	2.100	2.975	0.075	1	0.469	
			Living Room	3.570	4.265	0.075	1	1.142	
			Guest Room	3.845	3.350	0.075	1	0.966	
			Stair Room	4.265	2.250	0.075	1	0.720	
							(B)	7.470	cu.m
							(A+B)	12.200	cu.m
FLOORING									
6	11.38	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.							
			at ± 0.00 lvl.	Toilet Area	1.500	2.100		1	3.150
				Toilet Area	1.545	2.100		1	3.245
				Kitchen	2.100	2.975		1	6.248
			at +3300 lvl.	Toilet Area	1.500	2.100		2	6.300
				Toilet Area	1.545	2.100		2	6.489
				Kitchen	2.100	3.350		2	14.070
			at +6600 lvl.	Toilet Area	1.500	2.100		2	6.300
				Toilet Area	1.545	2.100		2	6.489
				Kitchen	2.100	3.350		2	14.070
									66.360 sq.m
WALL TILES									
7	11.36	Providing and fixing 1st quality Ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the nufacturer) 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 : 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.							
			at ± 0.00 lvl.	Toilet Area	1.500	2.100	2.100	1	15.120
				Toilet Area	1.545	2.100	2.100	1	15.309
				Kitchen	2.100	2.950	2.100	1	21.210
			at +3300 lvl.	Toilet Area	1.500	2.100	2.100	2	30.240
				Toilet Area	1.545	2.100	2.100	2	30.618
				Kitchen	2.100	3.350	2.100	2	45.780
			at +6600 lvl.	Toilet Area	1.500	2.100	2.100	2	30.240
				Toilet Area	1.545	2.100	2.100	2	30.618
				Kitchen	2.100	3.350	2.100	2	45.780
								(A)	264.915 sq.m
			Deduction for Door at ALL lvl.	D3	0.750		2.100	10	15.750
				D2	0.900		2.100	5	9.450
								(B)	25.200 sq.m
								(A-B)	239.715 sq.m
FLOORING & SKIRTING									
8	8.2.1.1	Providing and fixing 20mm thick mirror polished, machine cut for kitchen platforms, vanity	Bed Room	3.350	4.265			1	14.288

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
	counters facias and similar locatins of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement :4 coarse sand) with joints treated with white cement, mixe* with matching pigament-epoxy touch ups. including rubbing, curing etx. complete at all lbevels. Rajnagar plain white marbfe /Udaipur green marble/ Zebra block marble Area of each slab over 0.2 sqm but upto 0.5 sqm Rajnagar plain whit	±0.00 LVL. Flooring	Bed Room	3.350	4.115		1	13.785		
Balcony			3.625	1.220		1	4.423			
Balcony			3.045	1.220		1	3.715			
Dining Room			3.045	4.265		1	12.987			
Living Room			3.570	4.265		1	15.226			
Guest Room			3.845	3.350		1	12.881			
Stair Room			4.265	2.250		1	9.596			
					1.500	0.630		2	1.890	
		+3300 LVL. Flooring	Bed Room	3.350	4.265		2	28.576		
Bed Room			3.350	4.115		2	27.571			
Balcony			3.625	1.220		2	8.845			
Balcony			3.045	1.220		2	7.430			
Dining Room			3.045	4.265		2	25.974			
Living Room			3.570	4.265		2	30.452			
Verandah			5.190	1.740		1	9.031			
			2.250	1.860		1	4.185			
STORE ROOM			1.470	1.470		2	4.322			
			1.500	0.630		4	3.780			
PASSAGE			2.800	1.400		1	3.920			
		+6600 LVL. Flooring	Bed Room	3.350	4.265		2	28.576		
Bed Room			3.350	4.115		2	27.571			
Balcony			3.625	1.220		2	8.845			
Balcony			3.045	1.220		2	7.430			
Dining Room			3.045	4.265		2	25.974			
Living Room			3.570	4.265		2	30.452			
Verandah			5.190	1.740		1	9.031			
			2.250	1.860		1	4.185			
STORE ROOM			1.470	1.470		2	4.322			
			1.500	0.630		4	3.780			
PASSAGE			2.800	1.400		1	3.920			
								(A)	396.963	
		±0.00 LVL. Flooring	Bed Room	3.350	4.265	0.150	1	2.285		
Bed Room			3.350	4.115	0.150	1	2.240			
Balcony	3.625		1.220	0.150	1	1.454				
Balcony	3.045		1.220	0.150	1	1.280				
Dining Room	3.045			0.150	1	0.457				
	4.265			0.150	1	0.640				
	2.405			0.150	1	0.361				

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
			Living Room	3.570		0.150	1	0.536		
				4.265		0.150	1	0.640		
				2.225		0.150	1	0.334		
				Guest Room	3.845	3.350	0.150	1	2.159	
				Stair Room	4.265	2.250	0.150	1	1.955	
		+3300 LVL. Flooring								
			Bed Room	3.350	4.265	0.150	2	4.569		
			Bed Room	3.350	4.115	0.150	2	4.479		
			Balcony	3.625	1.220	0.150	2	2.907		
			Balcony	3.045	1.220	0.150	2	2.559		
			Dining Room	3.045		0.150	4	1.827		
				4.265		0.150	2	1.280		
				2.405		0.150	2	0.722		
			Living Room	3.570		0.150	2	1.071		
				4.265		0.150	2	1.280		
				2.225		0.150	2	0.668		
			Verandah	5.190		0.150	1	0.779		
				1.740		0.150	2	0.522		
				1.470		0.150	2	0.441		
				2.250		0.150	1	0.338		
				1.860		0.150	2	0.558		
			STORE ROOM	1.470	1.470	0.150	2	1.764		
			PASSAGE	2.800		0.150	1	0.420		
			+6600 LVL. Flooring	Bed Room	3.350	4.265	0.150	2	4.569	
				Bed Room	3.350	4.115	0.150	2	4.479	
		Balcony	3.625	1.220	0.150	2	2.907			
		Balcony	3.045	1.220	0.150	2	2.559			
		Dining Room	3.045		0.150	4	1.827			
			4.265		0.150	2	1.280			
			2.405		0.150	2	0.722			
		Living Room	3.570		0.150	2	1.071			
			4.265		0.150	2	1.280			
			2.225		0.150	2	0.668			

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
				5.190		0.150	1	0.779	
				1.740		0.150	2	0.522	
			Verandah	1.470		0.150	2	0.441	
				2.250		0.150	1	0.338	
				1.860		0.150	2	0.558	
			STORE ROOM	1.470	1.470	0.150	2	1.764	
			PASSAGE	2.800		0.150	1	0.420	
							(B)	66.701	
		Deduct for Doors & Openings	D	1.200		0.150	7	1.260	
			D1	1.050		0.150	16	2.520	
			D2	0.900		0.150	5	0.675	
			D3	0.750		0.150	2	0.225	
							(C)	4.680	sq.m
							D= (A+B)-(C)	458.984	sq.m
				2.800	0.300		1	0.840	
			MAIN ENTRANCE STEP	2.800	0.970		1	2.716	
				2.800		0.150	2	0.840	
			BACK SIDE STEP	2.175	0.300		3	1.958	
				2.175		0.150	4	1.305	
							(E)	7.659	
							(D+E)	466.643	sq.m
R.C.C. WORK BELOW PLINTH LVL.									
9	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level 1:1:2 (1 cement:1 coarse sand:2 graded stone aggregate 20mm nominal size)	F-1	2.900	3.400	0.400	0	0.000	
			F-4	3.000	9.200	0.400	1	11.040	
			BEAM	9.200	0.700	0.600	1	3.860	
			F-5	3.250	3.250	0.400	2	8.450	
			PEDESTAL	0.600	0.900	0.300	2	0.320	
			F-9	3.400	9.400	0.300	1	9.590	
			BEAM	9.400	0.700	0.700	1	4.610	
			F-10	3.400	5.000	0.500	1	8.500	
			PEDESTAL	0.600	0.900	0.200	1	0.110	
			F-11	9.300	5.000	0.400	1	18.600	
			BEAM	9.300	0.700	0.600	1	3.910	
			F-12	3.300	3.500	0.400	1	4.620	
			PEDESTAL	0.600	0.900	0.300	1	0.160	
			F-13	3.300	3.300	0.400	1	4.360	
			PEDESTAL	0.600	0.900	0.300	1	0.160	
							(A)	78.290	
							(A)	78.290	cu.m
R.C.C. WORK ABOVE PLINTH LVL.									
10	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and struts etc upto floor five level excluding the cost of centring, shuttering	C-1	0.300	0.600	2.050	6	2.210	
			C-2	0.300	0.600	2.050	4	1.480	
			Column upto Ground Level						

Item No.	Item of Work	Description	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
	level excluding the cost of centring, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)	C-3		0.300	0.600	2.050	2	0.740		
								(A)	4.430	cu.m
			C-1	Column Above Tie beam	0.300	0.600	9.900	6	10.690	
			C-2		0.300	0.600	9.900	4	7.130	
			C-3		0.300	0.600	9.900	2	3.560	
							(B)	21.380	cu.m	
							(A+B) :	25.810	cu.m	
11	5.3 + 5.33B.4 + 5.33B.1	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases upto floor five level excluding the cost of centring, shuttering, finishing & reinforcement - all work upto plinth level. 1:2:4 (1cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	TB-1	1.750	0.250	0.300	0	0.000		
			TB-2	13.680	0.250	0.300	1	1.030		
			TB-4	7.010	0.250	0.300	1	0.530		
			TB-5	3.600	0.250	0.300	1	0.270		
			TB-6	8.755	0.250	0.300	1	0.660		
			TB-9	4.365	0.250	0.300	1	0.330		
							(A)	2.820	cu.m	
		(Extra for Providing M-15grade R.C.C instead of M-20 grade R.C.C.)	PB-1	1.750	0.250	0.250	0	0.000		
		(Extra for Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.)	PB-2	13.680	0.250	0.450	1	1.540		
			PB-3	3.295	0.250	0.250	0	0.000		
			PB-4	13.185	0.250	0.450	1	1.480		
			PB-5	3.600	0.250	0.450	0	0.000		
			PB-6	3.295	0.250	0.250	0	0.000		
			PB-6A	2.500	0.250	0.350	1	0.220		
			PB-7	3.600	0.250	0.450	1	0.410		
			PB-8	6.990	0.250	0.450	0	0.000		
			PB-8A	6.990	0.250	0.450	1	0.790		
			PB-9	3.600	0.250	0.450	0	0.000		
			PB-10	1.750	0.250	0.250	0	0.000		
			PB-11	-						
			PB-12	3.600	0.250	0.450	1	0.410		
			PB-13	8.755	0.250	0.450	1	0.980		
			PB-14	0.505	0.250	0.250	2	0.060		
			PB-14A	0.505	0.250	0.250	2	0.060		
			PB-15	8.755	0.250	0.550	0	0.000		
			PB-16	2.350	0.250	0.250	0	0.000		
			PB-17	7.990	0.250	0.550	0	0.000		
			PB-18	3.600	0.250	0.450	0	0.000		
			PB-19	9.260	0.250	0.550	1	1.270		
			PB-20	7.990	0.250	0.600	1	1.200		
			PB-21	8.755	0.250	0.450	1	0.980		
							(B)	9.400	cu.m	
			D	1.500	0.250	0.150	3	0.170		
			D1	1.350	0.250	0.150	4	0.200		
			D2	1.200	0.125	0.150	2	0.050		
			D3	1.050	0.125	0.150	2	0.040		
			W	1.500	0.250	0.150	2	0.110		
			W1	1.500	0.250	0.150	3	0.170		
			W2	1.500	0.250	0.150	4	0.230		
			V	0.900	0.125	0.150	2	0.030		
			FGL	2.100	0.250	0.150	1	0.080		
			D	1.500	0.250	0.150	4	0.230		
			D1	1.350	0.250	0.150	12	0.610		
			D2	1.200	0.125	0.150	8	0.180		

Item No.	Item of Work	Description	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		D3	Lintel at +5400 & +8700 Level	1.050	0.125	0.150	14	0.280	
		W		1.500	0.250	0.150	8	0.450	
		W1		1.500	0.250	0.150	8	0.450	
		W2		1.500	0.250	0.150	14	0.790	
		W3		1.500	0.250	0.150	4	0.230	
		V		0.900	0.250	0.150	8	0.270	
		FGL		2.100	0.250	0.150	2	0.160	
		D	MUMTY ROOM	1.500	0.250	0.150	1	0.060	
		FGL		2.100	0.250	0.150	1	0.080	
							(C) :	4.870 cu.m	
		FFB-2	Floor beam at +3300 Lvl.	13.680	0.250	0.500	1	1.710	
		FFB-3		3.295	0.250	0.350	1	0.290	
		FFB-5		9.890	0.250	0.500	1	1.240	
		FFB-8		3.295	0.250	0.350	1	0.290	
		FFB-11		3.695	0.250	0.350	2	0.650	
		FFB-12		1.750	0.250	0.250	2	0.220	
		FFB-14		0.505	0.250	0.250	2	0.060	
		FFB-14A		0.505	0.250	0.250	2	0.060	
		FFB-15		8.755	0.250	0.600	1	1.310	
		FFB-16		2.350	0.250	0.250	1	0.150	
		FFB-17		9.260	0.250	0.600	1	1.390	
		FFB-18		3.600	0.250	0.350	2	0.630	
		FFB-19		9.260	0.250	0.600	2	2.780	
		FFB-20		2.500	0.250	0.300	1	0.190	
		SFB-1	Floor beam at+6600Lvl.	1.750	0.250	0.250	2	0.220	
		SFB-2		23.680	0.250	0.500	1	2.960	
		SFB-3		3.295	0.250	0.350	2	0.580	
		SFB-4		5.980	0.250	0.250	1	0.370	
		SFB-5		9.890	0.250	0.500	1	1.240	
		SFB-6		3.600	0.250	0.600	1	0.540	
		SFB-7		3.600	0.250	0.600	1	0.540	
		SFB-8		3.295	0.250	0.350	2	0.580	
		SFB-9		6.990	0.250	0.500	2	1.750	
		SFB-10		3.600	0.250	0.500	2	0.900	
		SFB-11		3.695	0.250	0.350	2	0.650	
		SFB-12		1.750	0.250	0.250	2	0.220	
		SFB-13		8.755	0.250	0.500	2	2.190	
		SFB-14		0.505	0.250	0.250	4	0.130	
		SFB-14A		0.505	0.250	0.250	4	0.130	
		SFB-15		8.755	0.250	0.600	2	2.630	
		SFB-16		2.350	0.250	0.250	2	0.290	
		SFB-17		9.260	0.250	0.600	2	2.780	
		SFB-18		3.600	0.250	0.350	2	0.630	
		SFB-19		9.260	0.250	0.600	2	2.780	
		SFB-20	2.500	0.250	0.300	1	0.190		
							(D) :	33.270 cu.m	
		RB-1	Roof beam	1.750	0.250	0.250	4	0.440	
		RB-2		10.590	0.250	0.450	2	2.380	
		RB-3		5.980	0.250	0.250	1	0.370	
		RB-4		16.480	0.250	0.450	1	1.850	
		RB-5		3.600	0.250	0.450	2	0.810	
		RB-6		6.990	0.250	0.450	2	1.570	
		RB-7		3.600	0.250	0.450	2	0.810	
		RB-8		3.695	0.250	0.250	2	0.460	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit			
				L	B	H/Depth	Nos					
			RB-9	at +9900 Lvl.	8.755	0.250	0.450	2	1.970			
			RB-10		0.505	0.250	0.250	4	0.130			
			RB-11		0.505	0.250	0.250	4	0.130			
			RB-12		8.755	0.250	0.450	2	1.970			
			RB-13		9.260	0.250	0.450	2	2.080			
			RB-14		3.600	0.250	0.250	2	0.450			
			RB-15		9.260	0.250	0.450	2	2.080			
			RB-16		2.500	0.250	0.300	1	0.190			
										(E) :	17.690	cu.m
										H=(A+B+C+D+E) :	68.050	cu.m
					W	Chhajja AT +2100, +3600 & 5800 Lvl.	1.500	0.450	0.088	10	0.591	
					W1		1.500	0.450	0.088	11	0.650	
					W2		1.500	0.450	0.088	18	1.063	
					W3		1.500	0.450	0.088	4	0.236	
					V		0.900	0.300	0.088	10	0.236	
										(A) :	2.776	cu.m
					Roof & Floor Slab	Slab at +3300 lvl	120.000		0.150	1	18.000	
						Slab at +6600 lvl.	216.643		0.150	1	32.496	
						Slab at +9900 lvl.	216.643		0.150	1	32.496	
						Mumty Slab at +12300	3.350	6.560	0.125	1	2.747	
										(B) :	85.740	cu.m
										(A+B+C) :	88.516	cu.m
							(A+B+C)+(H) :	156.570	cu.m			
BRICK WORK												
12	6.1.14A	Brick work with bricks of class designation 100A in foundations and plinth in cement mortar 1:6 (1cement :6 coarse sand)	TB-1	Tie Beam	1.750	0.250	0.750	0	0.000			
			TB-2		13.680	0.250	0.750	1	2.565			
			TB-3		3.600	0.250	0.750	0	0.000			
			TB-4		7.010	0.250	0.750	1	1.314			
			TB-5		3.600	0.250	0.750	1	0.675			
			TB-6		8.755	0.250	0.750	1	1.642			
			TB-7		0.505	0.250	0.750	0	0.000			
			TB-8		4.870	0.250	0.750	0	0.000			
			TB-9		4.365	0.250	0.750	1	0.818			
											0.000	
										(A) :	7.010	cu.m
					STEPS	Main Entrance	2.800	0.250	0.300	1	0.210	
					Ramp wall		3.345	0.250	0.350	2	0.585	
							1.270	0.250	0.150	1	0.048	
							3.045	0.250	0.350	2	0.533	
							1.270	0.250	0.150	1	0.048	
							3.190	0.250	0.350	2	0.558	
						1.270	0.250	0.150	1	0.048		
					BACK SIDE STEP	2.175	0.300	0.150	1	0.098		
						2.175	0.150	0.150	1	0.049		
										(B) :	2.180	cu.m
										(A+B) :	9.190	cu.m
13	6.1.14A + 6.3A	Brick work with bricks of class designation 100A in superstructure above plinth level upto three floor cement mortar 1:6 (1cement :6 coarse sand)	±0.00 LVL. to +3300 LVL.	A1'-A5	8.755	0.250	2.950	1	6.457			
				B1'-B2	0.765	0.250	2.950	1	0.564			
				B3-B5	5.640	0.250	2.950	1	4.160			
				E1-E4	5.660	0.250	2.950	1	4.174			
				F1-F5	9.885	0.250	2.950	1	7.290			
				1'A-1'B	3.600	0.250	2.950	1	2.655			
				2B-2E	6.990	0.250	2.950	1	5.155			
				4'B-4'D	3.295	0.250	2.950	1	2.430			
				5A-5B	3.600	0.250	2.950	1	2.655			
				5D-5F	6.195	0.250	2.950	1	4.569			

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		±3300 LVL. to +6600 LVL.	A1'-A5	8.755	0.250	2.950	1	6.457	
			B1'-B2	0.765	0.250	2.950	1	0.564	
			D'4"-D'5	1.720	0.250	2.950	1	1.269	
			E1-E4	5.660	0.250	2.950	1	4.174	
			F1-F4	5.660	0.250	2.950	1	4.174	
			J1'-J2	0.765	0.250	2.950	1	0.564	
			J3'-J5	4.390	0.250	2.950	1	3.238	
			K1'-K5	8.755	0.250	2.950	1	6.457	
			1E-1F	2.500	0.250	2.950	1	1.844	
			1'A-1'B	3.600	0.250	2.950	1	2.655	
			1'J-1'K	3.600	1.250	2.950	2	26.550	
			2B-2E	6.990	0.250	2.950	1	5.155	
			2F-2J	6.990	0.250	2.950	1	5.155	
			4'B-4'D	3.295	0.250	2.950	1	2.430	
			4G-4J	3.295	0.250	2.950	1	2.430	
			5A-5B	3.600	0.250	2.950	1	2.655	
			5D-5D'	2.225	0.250	2.950	1	1.641	
			5F'-5G	2.225	0.250	2.950	1	1.641	
			5J-5K	3.600	0.250	2.950	1	2.655	
			+6600 LVL. to +9900 LVL.	A1'-A5	8.755	0.250	2.950	1	6.457
		B1'-B2		0.765	0.250	2.950	1	0.564	
		D'4"-D'5		1.720	0.250	2.950	1	1.269	
		E1-E4		5.660	0.250	2.950	1	4.174	
		F1-F4		5.660	0.250	2.950	1	4.174	
		J1'-J2		0.765	0.250	2.950	1	0.564	
		J3'-J5		4.390	0.250	2.950	1	3.238	
		K1'-K5		8.755	0.250	2.950	1	6.457	
		1E-1F		2.500	0.250	2.950	1	1.844	
		1'A-1'B		3.600	0.250	2.950	1	2.655	
		1'J-1'K		3.600	1.250	2.950	2	26.550	
		2B-2E		6.990	0.250	2.950	1	5.155	
		2F-2J		6.990	0.250	2.950	1	5.155	
		4'B-4'D		3.295	0.250	2.950	1	2.430	
		4G-4J		3.295	0.250	2.950	1	2.430	
		5A-5B	3.600	0.250	2.950	1	2.655		
		5D-5D'	2.225	0.250	2.950	1	1.641		

Item No.	Item of Work	Description	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
			5F'-5G	2.225	0.250	2.950	1	1.641		
			5J-5K	3.600	0.250	2.950	1	2.655		
								203.530	cu.m	
		MUMTY ROOM	E1-E4	5.660	0.250	2.150	1	3.042		
			F1-F4	5.660	0.250	2.150	1	3.042		
			1E-1F	2.500	0.250	2.150	1	1.344		
			4E-4F	2.500	0.250	2.150	1	1.344		
								8.770	cu.m	
		Parapet at '+9900 LVL.	1'A-1'B	3.600	0.250	0.900	1	0.810		
			B1'-B2	0.765	0.250	0.900	1	0.172		
			2B-2E	6.990	0.250	0.900	1	1.573		
			2F-2J	6.990	0.250	0.900	1	1.573		
			J2-J1'	0.765	0.250	0.900	1	0.172		
			1'J-1'K	3.600	0.250	0.900	1	0.810		
			K1'-K5	8.755	0.250	0.900	1	1.970		
			5K-5A	23.680	0.250	0.900	1	5.328		
		A5-A1'	8.755	0.250	0.900	1	1.970			
								14.380	cu.m	
							(A) :	226.680	cu.m	
		D		1.200	0.250	2.100	3	1.890		
		D1		1.050	0.250	2.100	4	2.205		
		W	DEDUCT FOR DOOR & WINDOW +2100 Level	1.200	0.250	1.800	2	1.080		
		W1		1.200	0.250	1.500	3	1.350		
		W2		1.200	0.250	1.200	4	1.440		
		V		0.600	0.250	0.600	2	0.180		
		FGL		1.800	0.250	2.100	1	0.945		
		D			1.200	0.250	2.100	4	2.520	
		D1			1.050	0.250	2.100	12	6.615	
		W	DEDUCT FOR DOOR & WINDOW +5400 & +8700 Level	1.200	0.250	1.800	8	4.320		
		W1		1.200	0.250	1.500	8	3.600		
		W2		1.200	0.250	1.200	14	5.040		
		W3		1.200	0.250	0.800	4	0.960		
		V		0.600	0.250	0.600	8	0.720		
		FGL		1.800	0.250	2.100	2	1.890		
		D		DEDUCT FOR DOOR & WINDOW MUMTY ROOM	1.200	0.250	2.100	1	0.630	
		FGL	1.800		0.250	2.100	1	0.945		
							(B)	36.330		
							(A - B)	190.350	cu.m	
14	6.18.4A + 6.19A	Half brick Masonry with bricks of class designation 100A in superstructure above plinth level upto five floor cement mortar 1:4 (1cement :4 coarse sand)	3B-3D	3.295		3.150	1	10.379		
			4D'-4F	4.095		3.150	1	12.899		
			1A'-1B	1.750		3.150	1	5.513		
			6A'-6B	1.750		3.150	1	5.513		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		±0.00 LVL. to +3300 LVL.	A'1-A'1'	0.505		3.150	1	1.591	
			A'5-A'6	0.505		3.150	1	1.591	
			B5-B6	0.505		3.150	1	1.591	
			B1-B1'	0.505		3.150	1	1.591	
			-	2.100		3.150	1	6.615	
			B2-B3	2.350		3.150	1	7.403	
			B'2-B'3	2.350		3.150	1	7.403	
			D2-D3	2.350		3.150	1	7.403	
			D4-D5	3.600		3.150	1	11.340	
			D'4-D'5	3.600		3.150	1	11.340	
		+3300 LVL. to +6600 LVL.	1A'-1B	1.750		3.150	2	11.025	
			1J-1J'	1.750		3.150	2	11.025	
			3'A-3'B	3.600		3.150	2	22.680	
			3'J-3'K	3.600		3.150	2	22.680	
			3B-3D	3.295		3.150	2	20.759	
			3G-3J	3.295		3.150	2	20.759	
			4D-4G	9.890		3.150	2	62.307	
			4"D'-4"E	1.470		3.150	2	9.261	
			4"F-4"F'	1.595		3.150	2	10.049	
			5D'-5F'	5.565		3.150	2	35.060	
			6A'-6B	1.750		3.150	2	11.025	
			6J-6J'	1.750		3.150	2	11.025	
			A'1-A'1'	0.505		3.150	2	3.182	
			A5-A6	0.505		3.150	2	3.182	
			B1-B1'	0.505		3.150	2	3.182	
			B5-B6	0.505		3.150	2	3.182	
			B2-B3	2.350		3.150	2	14.805	
			B'2-B'3	2.350		3.150	2	14.805	
			D2-D3	2.350		3.150	2	14.805	
			D4-D5	3.590		3.150	2	22.617	
			D'4-D'4"	1.860		3.150	2	11.718	
			E4-E4"	1.860		3.150	2	11.718	
			F4-F4"	1.860		3.150	2	11.718	
			F'4"-F'4	1.860		3.150	2	11.718	
		G5-G4	3.600		3.150	2	22.680		
		G2-G3	2.350		3.150	2	14.805		
		G'2-G'3	2.350		3.150	2	14.805		
		J2-J3'	3.600		3.150	2	22.680		
		J1-J1'	0.505		3.150	2	3.182		
		J5-J6	0.505		3.150	2	3.182		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
			J'1-J'1'	0.505		3.150	2	3.182		
			J'5-J'6	0.505		3.150	2	3.182		
							(A)	554.148		
		D2	DEDUCT FOR OPENING	0.900	0.125	2.100	10	18.900		
		D3		0.750	0.125	2.100	16	25.200		
							(B)	44.100		
							(A-B)	510.048	Sq.m.	
15	6.21A	Extra for providing and placing in position 2 nos., 6dia MS bars at every third course of half brik masonry (with F.P.S. brick)				Same Quantity half brick		510.048	Sq.m.	
PLASTER WORK										
16	13.13.4	20 mm cement plaster of mix ; 1:6 (1 cement : 6 coarse sand)	-1050 LVL. to +3300 LVL. External Wall	1'A-1A'	1.850		4.500	1	8.325	
				A'1-A'1'	0.505		4.500	1	2.273	
				1A'-1B	1.750		4.500	1	7.875	
				B1-B2	1.270		4.500	1	5.715	
				2B-2D	3.295		4.500	1	14.828	
				2D-2E	3.695		4.500	1	16.628	
				2E-2F	2.500		4.500	1	11.250	
				F2-F5	8.755		4.500	1	39.398	
				5F-5D	6.195		4.500	1	27.878	
				5D-5B	3.295		4.500	1	14.828	
				B6-B5	0.505		4.500	1	2.273	
				6A'-6B	1.750		4.500	1	7.875	
				A'6-A'5	0.505		4.500	1	2.273	
				5A-5A'	1.850		4.500	1	8.325	
			A5-A1'	8.755		4.500	1	39.398		
			±3300 LVL. to +6600 LVL.	1'A-1A'	1.850		3.600	1	6.660	
				A'1-A'1'	0.505		3.600	1	1.818	
				1A'-1B	1.750		3.600	1	6.300	
				B1-B2	1.270		3.600	1	4.572	
				2B-2D	3.295		3.600	1	11.862	
				2D-2E	3.695		3.600	1	13.302	
				2F-2J	6.990		3.600	1	25.164	
				J2-J1	1.270		3.600	1	4.572	
				1J-1J'	1.750		3.600	1	6.300	
				J'1-J'1'	0.505		3.600	1	1.818	
				1J'-1K	1.850		3.600	1	6.660	
				K1'-K5	8.755		3.600	1	31.518	
			5J'-5K	1.850		3.600	1	6.660		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
			J'6-J'5	0.505		3.600	1	1.818	
			6J-6J'	1.750		3.600	1	6.300	
			J6-J5	0.505		3.600	1	1.818	
			5J'-5B	16.480		3.600	1	59.328	
			B6-B5	0.505		3.600	1	1.818	
			6A'-6B	1.750		3.600	1	6.300	
			A'6-A'5	0.505		3.600	1	1.818	
			5A-5A'	1.850		3.600	1	6.660	
			A5-A1'	8.755		3.600	1	31.518	
		+6600 LVL. to +9900 LVL.	1'A-1A'	1.850		3.600	1	6.660	
			A'1-A'1'	0.505		3.600	1	1.818	
			1A'-1B	1.750		3.600	1	6.300	
			B1-B2	1.270		3.600	1	4.572	
			2B-2D	3.295		3.600	1	11.862	
			2D-2E	3.695		3.600	1	13.302	
			2F-2J	6.990		3.600	1	25.164	
			J2-J1	1.270		3.600	1	4.572	
			1J-1J'	1.750		3.600	1	6.300	
			J'1-J'1'	0.505		3.600	1	1.818	
			1J'-1K	1.850		3.600	1	6.660	
			K1'-K5	8.755		3.600	1	31.518	
			5J'-5K	1.850		3.600	1	6.660	
			J'6-J'5	0.505		3.600	1	1.818	
			6J-6J'	1.750		3.600	1	6.300	
			J6-J5	0.505		3.600	1	1.818	
			5J'-5B	16.480		3.600	1	59.328	
			B6-B5	0.505		3.600	1	1.818	
			6A'-6B	1.750		3.600	1	6.300	
			A'6-A'5	0.505		3.600	1	1.818	
		5A-5A'	1.850		3.600	1	6.660		
		A5-A1'	8.755		3.600	1	31.518		
			1'A-1'B	3.600		0.900	2	6.480	
			B1'-B2	0.765		0.900	2	1.377	
			2B-2E	6.990		0.900	2	12.582	
			2F-2J	6.990		0.900	2	12.582	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit				
				L	B	H/Depth	Nos						
			+9900LVL.to +10800 LVL.	J2-J1'	0.765		0.900	2	1.377				
				1'J-1'K	3.600		0.900	2	6.480				
				K1'-K5	8.755		0.900	2	15.759				
				5K-5A	23.680		0.900	2	42.624				
				A5-A1'	8.755		0.900	2	15.759				
			MUMTY ROOM	E1-E4	5.660		2.400	1	13.584				
				F1-F4	5.660		2.400	1	13.584				
				1E-1F	2.500		2.400	1	6.000				
				4E-4F	2.500		2.400	1	6.000				
			EXTARNAL	COLUMN	1.800		3.600	6	38.880				
			Parapet at TOP	1'A-1'B	3.600		0.250	2	1.800				
				B1'-B2	0.765		0.250	2	0.383				
				2B-2E	6.990		0.250	2	3.495				
				2F-2J	6.990		0.250	2	3.495				
				J2-J1'	0.765		0.250	2	0.383				
				1'J-1'K	3.600		0.250	2	1.800				
				K1'-K5	8.755		0.250	2	4.378				
				5K-5A	23.680		0.250	2	11.840				
			A5-A1'	8.755		0.250	2	4.378					
			W	Chhajja AT +2100, +3600 & 5800 Lvl.	1.800	0.450		10	16.200				
					2.700		0.088	10	2.363				
			W1	Chhajja AT +2100, +3600 & 5800 Lvl.	1.800	0.450		11	17.820				
					2.700		0.088	11	2.599				
			W2	Chhajja AT +2100, +3600 & 5800 Lvl.	1.800	0.450		18	29.160				
					2.700		0.088	18	4.253				
			W3	Chhajja AT +2100, +3600 & 5800 Lvl.	1.800	0.450		4	6.480				
					2.700		0.088	4	0.945				
			V	Chhajja AT +2100, +3600 & 5800 Lvl.	0.900	0.450		10	8.100				
					1.800		0.088	10	1.575				
			1012.825 sq.m										
			17	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	±0.00 LVL. to +3300 LVL. Internal Wall	Bed Room	3.350	4.265	3.450	1	52.544	
							Bed Room	3.350	4.115	3.450	1	51.509	
			Balcony	3.625	1.220		3.450	1	33.431				
			Balcony	3.045	1.220		3.450	1	29.429				
			Dining Room	3.045			3.450	4	42.021				
				4.265			3.450	2	29.429				
				2.405			3.450	2	16.595				
			Living Room	3.570			3.450	2	24.633				
				4.265			3.450	2	29.429				
				2.225			3.450	2	15.353				
			Guest Room	3.845	3.350		3.450	1	49.646				
			Stair Room	4.265	2.250		3.450	1	44.954				
			Toilet Area	1.500	2.100		3.450	1	24.840				

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
			Toilet Area	1.545	2.100	3.450	1	25.151	
			Kitchen	2.100	2.950	3.450	1	34.845	
		+3300 LVL. to +6600 LVL. Internal Wall	Bed Room	3.350	4.265	3.450	2	105.087	
			Bed Room	3.350	4.115	3.450	2	103.017	
			Balcony	3.625	1.220	3.450	2	66.861	
			Balcony	3.045	1.220	3.450	2	58.857	
			Dining Room	3.045		3.450	4	42.021	
				4.265		3.450	2	29.429	
				2.405		3.450	2	16.595	
			Living Room	3.570		3.450	2	24.633	
				4.265		3.450	2	29.429	
				2.225		3.450	2	15.353	
			Verandah	5.190		3.450	1	17.906	
				1.740		3.450	2	12.006	
				1.470		3.450	2	10.143	
				2.250		3.450	1	7.763	
				1.860		3.450	2	12.834	
			STORE ROOM	1.470	1.470	3.450	2	40.572	
			PASSAGE	2.800		3.450	1	9.660	
			Toilet Area	1.500	2.100	3.450	2	49.680	
			Toilet Area	1.545	2.100	3.450	2	50.301	
			Kitchen	2.100	3.350	3.450	2	75.210	
		Stair Room	4.265	2.250	3.450	0	0.000		
		+6600 LVL. to +9900 LVL.	Bed Room	3.350	4.265	3.450	2	105.087	
			Bed Room	3.350	4.115	3.450	2	103.017	
			Balcony	3.625	1.220	3.450	2	66.861	
			Balcony	3.045	1.220	3.450	2	58.857	
			Dining Room	3.045		3.450	4	42.021	
				4.265		3.450	2	29.429	
				2.405		3.450	2	16.595	
			Living Room	3.570		3.450	2	24.633	
				4.265		3.450	2	29.429	
				2.225		3.450	2	15.353	
			5.190		3.450	1	17.906		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		Internal Wall		1.740		3.450	2	12.006	
			Verandah	1.470		3.450	2	10.143	
				2.250		3.450	1	7.763	
				1.860		3.450	2	12.834	
			STORE ROOM	1.470	1.470	3.450	2	40.572	
			PASSAGE	2.800		3.450	1	9.660	
			Toilet Area	1.500	2.100	3.450	2	49.680	
			Toilet Area	1.545	2.100	3.450	2	50.301	
			Kitchen	2.100	3.350	3.450	2	75.210	
			Stair Room	4.265	2.250	3.450	0	0.000	
			MUMTY ROOM	5.660		2.400	1	13.584	
				5.660		2.400	1	13.584	
				2.500		2.400	1	6.000	
				2.500		2.400	1	6.000	
							(A)	2097.680	
		D		1.200		2.100	3	7.560	
		D1		1.050		2.100	4	8.820	
		W	DEDUCT FOR DOOR & WINDOW +2100 Level	1.200		1.800	2	4.320	
		W1		1.200		1.500	3	5.400	
		W2		1.200		1.200	4	5.760	
		V		0.600		0.600	2	0.720	
		FGL		1.800		2.100	1	3.780	
								0.000	
		D		1.200		2.100	4	10.080	
		D1		1.050		2.100	12	26.460	
		W	DEDUCT FOR DOOR & WINDOW +5400 & +8700 Level	1.200		1.800	8	17.280	
		W1		1.200		1.500	8	14.400	
		W2		1.200		1.200	14	20.160	
		W3		1.200		0.800	4	3.840	
		V		0.600		0.600	8	2.880	
		FGL		1.800		2.100	2	7.560	
		D	DEDUCT FOR DOOR & WINDOW MUMTY ROOM	1.200		2.100	1	2.520	
		FGL		1.800		2.100	1	3.780	
								145.320	
								(A - B) 1952.360	sq.m
18	13.24.2	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)							
			Bed Room	3.350	4.265		1	14.288	
			Bed Room	3.350	4.115		1	13.785	
			Balcony	3.625	1.220		1	4.423	
			Balcony	3.045	1.220		1	3.715	
			Dining Room	3.045	4.265		1	12.987	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		Floor Slab at +3300 Lvl.	Living Room	3.570	4.265		1	15.226	
			Guest Room	3.845	3.350		1	12.881	
			Stair Room	4.265	2.250		0	0.000	
				1.500	0.630		0	0.000	
			Toilet Area	1.500	2.100		1	3.150	
			Toilet Area	1.545	2.100		1	3.245	
			Kitchen	2.100	2.950		1	6.195	
							(A)	89.900	
		Floor Slab at +6600 Lvl.	Bed Room	3.350	4.265		2	28.576	
			Bed Room	3.350	4.115		2	27.571	
			Balcony	3.625	1.220		2	8.845	
			Balcony	3.045	1.220		2	7.430	
			Dining Room	3.045	4.265		2	25.974	
			Living Room	3.570	4.265		2	30.452	
			Verandah	5.190	1.740		1	9.031	
				2.250	1.860		1	4.185	
			STORE ROOM	1.470	1.470		2	4.322	
				1.500	0.630		4	3.780	
			PASSAGE	2.800	1.400		1	3.920	
			Toilet Area	1.500	2.100		2	6.300	
			Toilet Area	1.545	2.100		2	6.489	
			Kitchen	2.100	3.350		2	14.070	
							(B)	180.950	
		Floor Slab at +10500 Lvl.	Bed Room	3.350	4.265		2	28.576	
			Bed Room	3.350	4.115		2	27.571	
			Balcony	3.625	1.220		2	8.845	
			Balcony	3.045	1.220		2	7.430	
			Dining Room	3.045	4.265		2	25.974	
			Living Room	3.570	4.265		2	30.452	
			Verandah	5.190	1.740		1	9.031	
				2.250	1.860		0	0.000	
			STORE ROOM	1.470	1.470		0	0.000	
				1.500	0.630		0	0.000	
			PASSAGE	2.800	1.400		1	3.920	
			Toilet Area	1.500	2.100		2	6.300	
			Toilet Area	1.545	2.100		2	6.489	
			Kitchen	2.100	3.350		2	14.070	
							(C)	168.660	
		Mumty Slab at +12900 Waste slab	Stair	3.350	6.560		1	21.976	
				3.725	1.325		6	29.614	

Item No.	Item of Work	Description	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
		Landing		2.500	1.270		3	9.525		
							(D)	61.110		
							(A+B+C+D)	500.620	sq.m	
19	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 chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Roof	220.000				220.000	sq.m	
20	FINISHING WORK									
	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.	External Wall					3465.805	sq.m	
21	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)	External Wall					1222.020	sq.m	
22	13.77A.1	Distemping with 1st quality washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacture's specifications.Two or more coats on new work	Internal Wall & Ceiling					2452.980	sq.m	
23	13.81.1	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)	D	1.200		2.100	3	7.560		
			D1	1.050		2.100	8	17.640		
			D	1.200		2.100	8	20.160		
			D1	1.050		2.100	24	52.920		
			D	1.200		2.100	1	2.520		
								100.800	sq.m	
			Multiplying Factor-1.2 (for each side) as per Table -1 [IS:1200]						241.920	sq.m
24	13.81.3	Applying priming coat with ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel work.	W	1.200		1.800	2	4.320		
			W1	1.200		1.500	3	5.400		
			W2	1.200		1.200	4	5.760		
			V	0.600		0.600	2	0.720		
			FGL	1.800		2.100	1	3.780		
			W	1.200		1.800	8	17.280		
			W1	1.200		1.500	8	14.400		
			W2	1.200		1.200	14	20.160		
			W3	1.200		0.800	4	3.840		
			V	0.600		0.600	8	2.880		
			FGL	1.800		2.100	2	7.560		
			FGL	1.800		2.100	1	3.780		
								89.880		
			Multiplying Factor-0.5 (for each side) as per Table -1 [IS:1200]					(A)	89.880	
								89.880	sq.m	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit			
				L	B	H/Depth	Nos					
25	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	D	DOOR +2100 Level	1.200		2.100	4	10.080			
			D1		1.050		2.100	4	8.820			
			D	DOOR +5400 & +8700 Level	1.200		2.100	8	20.160			
			D1		1.050		2.100	24	52.920			
			D	DOOR MUMTY ROOM	1.200		2.100	1	2.520			
										94.500		
					Multiplying Factor-1.2 (for each side) as per Table -1 [IS:1200]					(A)	226.800	
					W	DOOR & WINDOW +2100 Level	1.200		1.800	2	4.320	
					W1		1.200		1.500	3	5.400	
					W2		1.200		1.200	4	5.760	
					V		0.600		0.600	2	0.720	
					FGL		1.800		2.100	1	3.780	
					W	DOOR +5400 & +8700 Level	1.200		1.800	8	17.280	
					W1		1.200		1.500	8	14.400	
					W2		1.200		1.200	14	20.160	
					W3		1.200		0.800	4	3.840	
					V		0.600		0.600	8	2.880	
					FGL	1.800		2.100	2	7.560		
					FGL	DOOR MUMTY ROOM	1.800		2.100	1	3.780	
											89.880	
					Multiplying Factor-0.5 (for each side) as per Table -1 [IS:1200]					(B)	89.880	
										0	0.000	
											0.000	
		Multiplying Factor-1.5 (for painting all over)					(C)	0.000				
								(A+B)	316.680 sq.m			
26	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	D	DOOR +2100 Level	1.200		2.100	4	21.600			
			D1		1.050		2.100	4	21.000			
			D2		0.900		2.100	8	40.800			
			D	DOOR +5400 & +8700 Level	1.200		2.100	8	43.200			
			D1		1.050		2.100	24	126.000			
			D	DOOR MUMTY ROOM	1.200		2.100	1	5.400			
			D3		0.750		2.100	10	15.750			
									958 Kg.			
27	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 mathched commercial 3 plyveneering wiith 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	DOOR +2100 Level	1.200		2.100	4	10.080			
			D1		1.050		2.100	4	8.820			
			D2		0.900		2.100	8	15.120			
			D	DOOR +5400 & +8700 Level	1.200		2.100	8	20.160			
			D1		1.050		2.100	24	52.920			
			D	DOOR MUMTY ROOM	1.200		2.100	1	2.520			
			D3		0.750		2.100	10	15.750			

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit	
				L	B	H/Depth	Nos			
								125.370	sq.m	
28	9.66.1	Providing and fixing M.S.handles with necessary screws etc.complete 125 mm	DOOR				59	59	EACH	
29	9.63.1	Providing and fixing oxidised M.S.tower bolt black finish,(barrel type) with necessary screws etc.complete	DOOR				59	59	EACH	
30	9.64	Providing and fixing ISI marked 85x42mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers	DOOR				59	59	EACH	
31	9.62.1	Providing and fixing oxidised M.S. sliding door bolts with nuts and screws etc. complete 300x16xmm	DOOR				59	59	EACH	
32	STEEL WORK									
	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. 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 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 instread of glaxing clips and met. Sash putty in steel doors, windows,ventilators and composite units.	W	DOOR & WINDOW +2100 Level	1.200	1.800	2	4.320		
			W1		1.200	1.500	2	3.600		
			W2		1.200	1.200	4	5.760		
			W	DOOR +5400 & +8700 Level	1.200	1.800	8	17.280		
			W1		1.200	1.500	8	14.400		
			W2		1.200	1.200	14	20.160		
			W3		1.200	0.800	4	3.840		
									69.360	sq.m
33	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. 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 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 instread of glaxing clips and met. Sash putty in steel doors, windows,ventilators and composite units.	V	DOOR & WINDOW +2100 Level	0.600	0.600	4	1.440	
				V	DOOR +5400 & +8700 Level	0.600	0.600	8	2.880	
								4.320	sq.m	
34	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 fixed to steel windows by welding.	W	DOOR & WINDOW +2100 Level	1.200	1.800	4	8.640		
			W1		1.200	1.500	6	10.800		
			W2		1.200	1.200	8	11.520		
			V		0.600	0.600	4	1.440		
			FGL		1.800	2.100	1	3.780		
			W	DOOR +5400 & +8700 Level	1.200	1.800	8	17.280		
			W1		1.200	1.500	8	14.400		
			W2		1.200	1.200	14	20.160		
			W3		1.200	0.800	4	3.840		
			V		0.600	0.600	8	2.880		
			FGL		1.800	2.100	2	7.560		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		FGL	DOOR MUMTY ROOM	1.800		2.100	1	3.780	
								106.080	sq.m
								Per sq m. @ 22kg	2333.760
35	5.22	Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete. TMTC-500							
	5.22.7A	TMTC-500 8mm dia						17650	KG
	5.22.7B	TMTC-500 10mm dia						5350	KG
	5.22.7C	TMTC-500 12mm dia						6450	KG
	5.22.7D	TMT-500 16mm dia						7500	KG
	5.22.7E	TMT-500 20mm dia						8550	KG
	5.22.7F	TMT-500 25mm dia						8000	KG
36	10.17	Providing & fixing M.S. Fan hook of 16 mm. dia. M.S. bar 1 Mtr. Long bent to required size and shape, placed in position and fixed in Truss Frame / RCC Slab / beam at the time of casting all complete as per building specification and direction of E/I. (Where materials is not supplied by deptt.)						90.00	Each
37	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.	Hand rail	Stair				450.00	kg.
								450.00	kg.
MISCELLANEOUS WORK									
38	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bad by dry brick ballast 40mm nominal size well rammend and consolidated and grouted with fine sand including finishing the top smooth.			46.475	1.000		46.48	sq.m
SHUTTERING									
39	5.9.1	Centring and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete.	F-1	Foundation	2.900	3.400	0.400	0	0.000
			F-4		3.000	9.200	0.400	1	9.760
			BEAM		9.200	0.700	0.600	1	11.880
			F-5		3.250	3.250	0.400	2	10.400
			PEDESTAL		0.600	0.900	0.300	2	1.800
			F-9		3.400	9.400	0.300	1	7.680
			BEAM		9.400	0.700	0.700	1	14.140
			F-10		3.400	5.000	0.500	1	8.400
			PEDESTAL		0.600	0.900	0.200	1	0.600
			F-11		9.300	5.000	0.400	1	11.440
			BEAM		9.300	0.700	0.600	1	12.000
			F-12		3.300	3.500	0.400	1	5.440
			PEDESTAL	0.600	0.900	0.300	1	0.900	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		F-13		3.300	3.300	0.400	1	5.280	
		PEDESTAL		0.600	0.900	0.300	1	0.900	
							(A)	100.620	Sqm.
40	5.9.5	Centring and shuttering including strutting, propping etc. and removal of form for lintel, beams, plinth beams, griders, bressumers and contilevers.	TB-1	1.750		0.300	0	0.000	
			TB-2	23.680		0.300	1	14.208	
			TB-4	16.480		0.300	1	9.888	
			TB-5	3.600		0.300	1	2.160	
			TB-6	8.755		0.300	1	5.253	
			TB-9	4.365		0.300	1	2.619	
			PB-1	1.750		0.250	1	0.875	
			PB-2	23.680		0.450	1	21.312	
			PB-3	3.295		0.250	1	1.648	
			PB-4	13.185		0.450	1	11.867	
			PB-5	3.600		0.450	1	3.240	
			PB-6	3.295		0.250	1	1.648	
			PB-6A	2.500		0.350	1	1.750	
			PB-7	3.600		0.450	1	3.240	
			PB-8	6.990		0.450	1	6.291	
			PB-8A	6.990		0.450	1	6.291	
			PB-9	3.600		0.450	1	3.240	
			PB-10	1.750		0.250	1	0.875	
			PB-11	-				0.000	
			PB-12	3.600		0.450	1	3.240	
			PB-13	8.755		0.450	2	15.759	
			PB-14	0.505		0.250	2	0.505	
			PB-14A	0.505		0.250	2	0.505	
			PB-15	8.755		0.550	1	9.631	
			PB-16	2.350		0.250	1	1.175	
			PB-17	7.990		0.550	1	8.789	
			PB-18	3.600		0.450	1	3.240	
			PB-19	9.260		0.550	2	20.372	
			PB-20	7.990		0.600	1	9.588	
			PB-21	8.755		0.450	1	7.880	
							(A)	142.959	
			D	1.500	0.250	0.150	3	1.725	
			D1	1.350	0.250	0.150	4	1.958	
			D2	1.200	0.125	0.150	2	0.870	
			D3	1.050	0.125	0.150	2	0.761	
			W	1.500	0.250	0.150	2	1.275	
			W1	1.500	0.250	0.150	3	1.725	
			W2	1.500	0.250	0.150	4	2.175	
			V	0.900	0.125	0.150	2	0.653	
			FGL	2.100	0.250	0.150	1	1.155	
			D	1.500	0.250	0.150	4	2.175	
			D1	1.350	0.250	0.150	12	5.198	
			D2	1.200	0.125	0.150	8	3.030	
			D3	1.050	0.125	0.150	14	4.541	
			W	1.500	0.250	0.150	8	3.975	
			W1	1.500	0.250	0.150	8	3.975	
			W2	1.500	0.250	0.150	14	6.675	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		W3	MUMTY ROOM	1.500	0.250	0.150	4	2.175	
		V		0.900	0.250	0.150	8	2.385	
		FGL		2.100	0.250	0.150	2	1.785	
		D		1.500	0.250	0.150	1	0.825	
		FGL		2.100	0.250	0.150	1	1.155	
							(B)	50.190	
		FFB-1	Floor beam at +3300 Lvl.	1.750		0.250	2	1.750	
		FFB-2		23.680		0.500	1	23.680	
		FFB-3		3.295		0.350	2	4.613	
		FFB-4		5.980		0.250	1	2.990	
		FFB-5		9.890		0.500	1	9.890	
		FFB-6		3.600		0.600	1	4.320	
		FFB-7		3.600		0.600	1	4.320	
		FFB-8		3.295		0.350	2	4.613	
		FFB-9		6.990		0.500	2	13.980	
		FFB-10		3.600		0.500	2	7.200	
		FFB-11		3.695		0.350	2	5.173	
		FFB-12		1.750		0.250	2	1.750	
		FFB-13		8.755		0.500	2	17.510	
		FFB-14		0.505		0.250	4	1.010	
		FFB-14A		0.505		0.250	4	1.010	
		FFB-15		8.755		0.600	2	21.012	
		FFB-16		2.350		0.250	2	2.350	
		FFB-17		9.260		0.600	2	22.224	
		FFB-18		3.600		0.350	2	5.040	
		FFB-19		9.260		0.600	2	22.224	
		FFB-20	2.500		0.300	1	1.500		
		SFB-1	Floor beam at+6600Lvl.	1.750		0.250	2	1.750	
		SFB-2		23.680		0.500	1	23.680	
		SFB-3		3.295		0.350	2	4.613	
		SFB-4		5.980		0.250	1	2.990	
		SFB-5		9.890		0.500	1	9.890	
		SFB-6		3.600		0.600	1	4.320	
		SFB-7		3.600		0.600	1	4.320	
		SFB-8		3.295		0.350	2	4.613	
		SFB-9		6.990		0.500	2	13.980	
		SFB-10		3.600		0.500	2	7.200	
		SFB-11		3.695		0.350	2	5.173	
		SFB-12		1.750		0.250	2	1.750	
		SFB-13		8.755		0.500	2	17.510	
		SFB-14		0.505		0.250	4	1.010	
		SFB-14A		0.505		0.250	4	1.010	
		SFB-15		8.755		0.600	2	21.012	
		SFB-16	2.350		0.250	2	2.350		

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
		SFB-17		9.260		0.600	2	22.224	
		SFB-18		3.600		0.350	2	5.040	
		SFB-19		9.260		0.600	2	22.224	
		SFB-20		2.500		0.300	1	1.500	
		RB-1		1.750		0.250	4	3.500	
		RB-2		10.590		0.450	2	19.062	
		RB-3		5.980		0.250	1	2.990	
		RB-4		16.480		0.450	1	14.832	
		RB-5		3.600		0.450	2	6.480	
		RB-6		6.990		0.450	2	12.582	
		RB-7		3.600		0.450	2	6.480	
		RB-8		3.695		0.250	2	3.695	
		RB-9	Roof beam at +9900 Lvl.	8.755		0.450	2	15.759	
		RB-10		0.505		0.250	4	1.010	
		RB-11		0.505		0.250	4	1.010	
		RB-12		8.755		0.450	2	15.759	
		RB-13		9.260		0.450	2	16.668	
		RB-14		3.600		0.250	2	3.600	
		RB-15		9.260		0.450	2	16.668	
		RB-16		2.500		0.300	1	1.500	
								(C)	497.913
								(A+B+C)	691.062 Sqm.
41	5.9.6	Centring and shuttering including strutting, propping etc. and removal of form for columns, pillars, piers, abutments, posts and struts	C-1	0.300	0.600	2.050	6	22.140	
			C-2	0.300	0.600	2.050	4	14.760	
			C-3	0.300	0.600	2.050	2	7.380	
			C-1	0.300	0.600	9.900	6	106.920	
			C-2	0.300	0.600	9.900	4	71.280	
			C-3	0.300	0.600	9.900	2	35.640	
								(A)	258.120 Sqm.
42	5.9.3	Centring and shuttering including strutting, propping etc. and removal of form for suspended floors, roofs, landings, balconies and access platform.	W	1.800	0.450		10	16.200	
				2.700		0.088	10	2.363	
			W1	1.800	0.450		11	17.820	
				2.700		0.088	11	2.599	
			W2	1.800	0.450		18	29.160	
				2.700		0.088	18	4.253	
			W3	1.800	0.450		4	6.480	
				2.700		0.088	4	0.945	
			V	0.900	0.450		10	8.100	
				1.800		0.088	10	1.575	
								(A)	89.500 Sqm.
			Roof & Floor Slab	Slab at +3300 lvl			197.414	1	197.414
				Slab at +6600 lvl.			197.414	1	197.414
				Slab at +9900 lvl.			197.414	1	197.414
				Mumty Slab at +12300	3.350	6.560		1	21.976
								(B)	614.220
								(A+B)	703.720 Sqm.
43									CARRIAGE OF MATERIALS

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
				L	B	H/Depth	Nos		
	Type of materials	Lead in Km							
	Local Sand							107.730	cum
	Sand							243.230	cum
	Stone Chips							232.436	cum
	Brick							136.972	Thous.
	Cement							194.950	MT
	Steel							53.500	MT
	Add extra cos of material with gaya								
	Bricks							136.972	Thous.
	Cement							194.950	MT