

(Detailed Project Report)

for

Phase II work

of

Primary Teacher Education College

(PTEC)

Campus at Chandwara, Muzaffarpur

Estimated Cost: Rs. 406.577 Lac

Submitted to:

Education Department, Government of Bihar, Patna

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

<u>report</u>

Project : Phase II Work of PTEC Campus at Chandwara, Muzaffarpur

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 standard 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. 406.577 Lac. In views of utility and essentiality of proposed work, sanction of the project may kindly be accorded.

Junior Engineer BSEIDC, Patna Assistant Engineer BSEIDC, Patna

Executive Engineer BSEIDC, Patna

GENERAL ABSTRACT OF COST

Phase II Work of PTEC Campus at Chandwara, Muzaffarpur

SI. No.	Particulars	Estir	mated Amount
1.	Construction of Boundary wall	: Rs.	3741601.00
2.	Construction of Main Gate	: Rs.	514593.00
3.	Construction of Principal & Staff Quarters	: Rs.	11296231.00
3.	Construction of Guard Room.	: Rs.	426909.00
4.	Campus Development and Landscaping	: Rs.	3668790.00
5.	Construction of Portico and Cycle/Motor cycle stand	: Rs.	1038436.00
6.	Development of Campus Lighting	: Rs.	1548757.00
7.	Provision for Furnishing (Furniture)	: Rs.	12192527.00
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.	1470039.00
	Total	: Rs.	37997883.00
10.	Add Centage @ 7% (Supervision charge for BSEIDC)	: Rs.	2659817.00
	Grand Total	: Rs.	40657700.00
	5	Say Rs.	406.577 Lac

Junior Engineer Assistant Engineer Executive Engineer

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

	D	BOUNDARY WALL				
SI. No.	SOR Item No.	n Schedule Rate : BCD Bihar -2016 & DSR - 2016 Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
		Total Length of Boundary Wall = 456.00 m.				
		New Construction : 416.00 m. Raising & Repair : 0.00 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 lead of 50 m. All Kinds of soil	cum	182.88	230.50	42154.00
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	182.88	74.50	13625.00
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	10.82	204.40	2212.00
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	212.19	253.80	53854.00
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	10.82	2775.70	30033.00
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	33.99	6035.20	205136.00
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	58.48	6644.60	388576.00
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	5600	56.00	313600.00
9.1	5.22.7b	TMTC-500 10mm dia	kg	2950	54.70	161365.00
9.2	5.22.7C	TMTC-500 12mm dia	kg	6200	53.40	331080.00
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	108.08	169.00	18266.00
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	398.15	357.60	142378.00

SI. 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	312.00	261.70	81650.00
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	156.00	5003.90	780608.00
12.3	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	1476.80	101.20	149452.00
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	6240.00	86.00	536640.00
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)		1476.80	71.10	105000.00
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	249.60	22.80	5691.00
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	249.60	54.10	13503.00
16.3		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
16.4		Local Sand	cum	15.06	181.48	2733.00
16.5		Coarse Sand	cum	107.10	967.90	103662.00
16.6		Stone Chips	cum	88.77	1658.60	147234.00
16.7		Bricks	%o no.	83913	531.00	44558.00
16.8		Cement	MT	55.400	282.30	15639.00
16.9		Steel	MT	14.750	282.30	4164.00
17.3		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
17.4		Bricks	%o no.	83913	370.80	31115.00
17.5		Cement	MT	55.400	319.00	17673.00
		Grand Total				3741601.00

	Based on	Schedule Rate: BCD Bihar -2016 & DSR - 20	16			
SI. 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		382.11	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		0.00	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.		382.11	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.		101.79	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	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)		12.20	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.		66.36	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	766.30	183697.00

SI. 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: 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels Rajnagar plain white marble /Udaipur green marble/ Zebra black marble Area of slab upto 0.50 sqm	sqm	466.65	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 (1cement: 1 coarse sand: 2 graded stone aggregate 20mm nominal size)	cum	78.29	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 (1cement: 1 coarse sand: 2 graded stone aggregate 20mm nominal size)	cum	25.81	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-15grade R.C.C instead of M-20 grade R.C.C, Proiding M-25 grade R.C.C. instead of M-20 grade R.C.C	cum	156.58	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 (1cement :6 coarse sand)	cum	9.19	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	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 send) Extra for half Brick masonry in superstructure above plinth level upto floor V level.	sqm	510.06	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	55.40	28257.00
13	13.13.4	20 mm cement plaster of mix; 1:6 (1 cement : 6 coarse sand)	sqm	1012.89	140.40	142210.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
13	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	1952.37	101.20	197580.00
14	13.24.2	6mm thick Cement plaster of Ceiling mix 1:4 (1 cement : 4 coarse sand)	sqm	500.63	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	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	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	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	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	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	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	54.10	17132.00
18	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 concerete 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	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	1698.20	212903.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	59.00	69.40	4095.00
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	59.00	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	59.00	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	59.00	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	59.00	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	3175.00	220218.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
25	10.12.1 + 10.13C	Providing and fixing glazed steel doors, windows or ventilators of standard rolled steel sections, joints mitered and welded with 15x3 mm M.S. 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	3181.80	13745.00
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	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	56.00	988400.00
26.2	5.22.7B	TMTC-500 10mm dia	kg	5350	54.70	292645.00
26.3	5.22.7C	TMTC-500 12mm dia	kg	6450	53.40	344430.00
26.4	5.22.7D	TMT-500 16mm dia	kg	7500	54.40	408000.00
26.5	5.22.7E	TMT-500 20mm dia	kg	8550	53.60	458280.00
26.5	5.22.7F	TMT-500 25mm dia	kg	8000	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	90.00	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	450.00	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	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	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	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	357.60	92304.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	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	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	60.00	144.50	8670.00
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	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	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:				
39	17.4.3 17.7.4	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern 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	each	5	6205.20	31026.00
		wherever require: White Vitreous China Wash basin size 550 x 400 mm with a single 15 mm C.P. brass pillar taps.	each	8	1604.90	12839.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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		5	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	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	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	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	473.70	4737.00
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	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	147.30	14730.00
44.2	18.9.3	25 mm nominal outer dia Pipes (External work)	m.	50	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	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	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	175.30	3506.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	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 precast 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	3384.80	20309.00
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	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	28775.50	28776.00
52	CST	Construction of Septic Tank complete (as per detailed)	each	1	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 Submerssible pump (as per detailed attached)	each	1	60432.00	60432.00
54	1.3	ELECTRICAL ITEMS OF WORK 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	567.00	11340.00
54.2	1.3.3	Group C	point	120	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	720.00	2880.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	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	150.00	45000.00
57.2	1.7.3	2x4 sqmm + 1x4 sqmm earth wire (For AC, Industrial Socket)	m.	10	193.00	1930.00
57.3	1.7.5	2x10 sqmm + 1x6 sqmm earth wire	m.	10	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	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	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	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	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	98.00	4900.00
62.2	1.24.2	2 way, 5/6 A switch	each	6	108.00	648.00
62.3	1.24.3	15/16 A switch	each	10	125.00	1250.00
62.4	1.24.4	3 pin 5/6 A socket outlet	each	30	120.00	3600.00
62.2	1.24.6	Telephone socket outlet	each	10	103.00	1030.00
62.5	1.24.7	TV antenna socket outlet	each	15	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	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	35.00	1400.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
65	1.34	Supplying and fixing batten / angle holder including connection etc as required.	each	50	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	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	819.00	6552.00
67	2.9	Supplying and fixing of following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required (But without MCB/RCCB/ISOLATOR).		-		
	2.9.4	4 Ways (4+12 ways) double door	each	6	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	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	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	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	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	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 capcity TP&N disconnector fuse switch unit inside the existing panel board with IS marked HRC fuses including drilling holes in cubical panel making connections etc. as required.				
		roquirou.				

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	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	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	86.00	1720.00
83	2.5.3	Providing & fixing following capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty, complete with all accessories including connections, earthing the body etc. as required 200 Amps	each	1	6360.00	6360.00
84		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
84.1		Local Sand	cum	107.73	181.48	19551.00
84.2		Coarse Sand	cum	243.23	967.90	235422.00
84.3		Stone Chips	cum	232.44	1658.60	385525.00
84.4		Bricks	%o no.	136972	531.00	72732.00
84.6		Cement	MT	194.950	282.30	55034.00
84.7		Steel	MT	53.500	282.30	15103.00
88		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
88.1		Bricks	%o no.	136972	370.80	50789.00
88.2		Cement	MT	194.950	319.00	62189.00
		Total (Schedule Items)				11232011.00
		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		40	380.00	15200.00
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	300.00	
90.4	SP05	DOOR BEND 110 mm dia	each	20	300.00	6000.00
90.5	SP06	BEND 45 / 87.5 degree 110 mm dia VENT COWEL 110 mm dia	each	10	350.00	3500.00
90.6 90.7	SP07 SP08	FLOOR TRAP 110X110 mm dia	each each	8 12	350.00 310.00	2800.00 3720.00
50.7	5, 50	FIRE EXTINGUISHER	54511	12	0.10.00	3, 20.00

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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	3000.00	30000.00
		Total (Non Schedule Items)				64220.00
		Grand Total				11296231.00

	GUARD ROOM								
SI. No.	SOR Item No.	Schedule Rate : BCD Bihar -2016 & DSR - 201	Unit	Quantity	Rate (Rs.)	Amount (Rs.)			
1	2	3	4	5	6	7			
1	2.8.1	Civil Work 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. Providing designation 100A one brick flat soling joints	cum	11.62	204.40	2375.00			
4	11.72	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, Proiding 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			

SI. 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 concerete 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

SI. 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. 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	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

SI. 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.	роше	o d	007.00	0402.00
	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

SI. 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	181.48	2180.00
43.2		Coarse Sand	cum	11.91	967.90	11528.00
43.3		Stone Chips	cum	11.58	1658.60	19207.00
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 Muzaffarpur 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 (Schedule Items)				423909.00
		Non Schedule Items (on Tendered Rate)				
45.2	FE	Brand new ISI marked Life Guard ABC type multipurpose Fire Extinguishers 4 Kgs. Capacity, fitted with pressure gauge complete in all respects, ready to use, complete installation kit.	each	1	3000.00	3000.00
		Total (Non Schedule Items)				3000.00
		Grand Total				426909.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Chandwara, Muzaffarpur **Miscellaneous Work** Based on Schedule Rate: BCD Bihar -2016 & DSR - 2016 SOR Amount Rate SI. No. Item of Work Unit Quantity Item No. (Rs.) (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 0.37 230.50 85.00 cum excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil Supplying and Filling in plinth with local sand and 2 2.28 floors under including watering, ramming 0.06 204.40 12.00 cum consolidating and dressing complete. Providing designation 100A one brick flat soling joints 3 11.72 filled with local sand including cost of watering taxes sqm 0.81 253.80 206.00 royalty all complete as per building specification and direction of E/I. Providing and laying in position cement concrete of 4 4.1.5 specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 0.24 2775.70 666.00 cum Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size) Steel work welded in built up sections/framed work 5 10.32.2 including cutting hoisting, fixing in position and applying a priming coat of approved steel primer 50.00 76.70 3835.00 kg using structural steel, etc. as required. In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works. Applying priming coat with ready mixed zinc chromate 6 13.81.3 yellow primer of approved brand and manufacture on 22.80 123.00 sqm 5.40 steel galvanized iron/steel work. Painting with synthetic enamel paint of approved 7 13.93.1 brand and manufacture to give an even shade two or 54.10 292.00 5.40 sqm more coats on new work (wood & steel) 9 CARRIAGE **MATERIALS** (Rates inclusive of CESS) Local Sand 9.1 cum 0.06 181.48 11.00 Coarse Sand 9.2 0.11 967.90 106.00 cum Stone Chips 9.3 0.23 1658.60 381.00 cum Bricks 9.4 %o no. 30 531.00 16.00 Cement 9.5 MΤ 0.05 282.30 14.00 Add extra cost of material for Muzaffarpur Zone 10 w.r.t Gaya Zone (as per BCD SOR) **Bricks** 370.80 10.1 %o no. 30 11.00 Cement 10.2 MΤ 0.050 319.00 16.00 Total (Cost of one set) 5774.00 Hence Cost for 6 set (for 3 Buildings) 34644.00

SIGNAGES

_		Description and finite and Oliver and African Area		1		
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: 4coarse 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				
	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. Open Air Theater type Earthen Seating platform	sqm	400.20	1646.40	658889.00
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	181.48	1563.00
7.2		Coarse Sand	cum	2.49	967.90	2410.00
7.3		Stone Chips	cum	1.52	1658.60	2521.00

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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 Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
8.1		Bricks	%o no.	2965	370.80	1099.00
8.2		Cement	МТ	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	181.48	4083.00
8.4		Coarse Sand	cum	0.41	967.90	397.00
8.5		Stone Chips	cum	0.83	1658.60	1377.00
8.7		Cement	MT	0.30	282.30	85.00
9.2		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
9.4		Cement	МТ	0.300	319.00	96.00
		Total (Scheduled Item)				897199.00
		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	800.00	38400.00

		SIGNAGES				
2	AR	Labour and material cost of Steel letter including fixing at site all complete with taxes, etc.	/ letter	60.00	250.00	15000.00
3		Signage in front of each Building	each	4.00	1110.00	4440.00
4		Signage in front of each Room (made on SS plate)	each	185.00	1750.00	323750.00
5		Signage to show the direction of different buildings / activities (made on SS plate)	each	10.00	3125.00	31250.00
		For 8 no. Seating Benches for Gearden				
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.		8.00	20000.00	160000.00
		Total (Non Scheduled Item)				572840.00
		Grand Total				1470039.00

	Based on	Schedule Rate : BCD Bihar -2016 & DSR - 201	16			
SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7
1	2.28	Campus Filling Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	1832.00 cum	204.40	374461.00
1.1		Carriage of Local sand by an average lead 3.00 km	cum	1832.00 cum	181.48	332471.00
		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	205 no.	42.20	8651.00
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	29.77 cum	85.50	2545.00
3	23.2d	Carriage of good Earth from a ave. lead of 2 km.	cum	29.77 cum	186.00	5537.00
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		7.44 cum	25.00	186.00
5	23.3	Supplying and stacking Sludge at site including royalty and carriage (Sludge measusred in stacks will be reduced by 8% for payment)	cum	7.44 cum	241.60	1798.00
6	23.9	Mixing earth and sjudge or manure in porportion specified or directed.	cum	44.65 cum	12.40	554.00
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	44.65 cum	18.00	804.00
8	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, prunning and maintetance for 3 month after planting, all complete.				
		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 no.	60432.00	60432.00
		Pipe line work to irrigate plantation				

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of E/I.				,
	18.9.2	20 mm nominal outer dia Pipes (External work)	m.	375.00 m.	147.30	55238.00
	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	18 no.	138.70	2497.00
		APPROACH ROAD, PATHWAYS & DRAIN				
		Length of Road = 447.00 m., Length of Drain = 115.00 m.				
1	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	297.26 cum	204.40	60760.00
9	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	1363.35 sqm	253.80	346018.00
10	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	1363.35 sqm	407.00	554883.00
11	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	204.50 cum	3323.10	679574.00
12	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	134.10 sqm	169.00	22663.00
	15.9 (RCD)	Providing Dry Rubble flooring with approved size and type of Rubble (Stone), all complete	cum	80.46 cum	1336.00	107495.00
	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	894.00 m	362.00	323628.00
13	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	115.00 m	970.50	111608.00
13		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
13.1		Local Sand	cum	379.06 cum	181.48	68792.00
13.2		Coarse Sand	cum	91.00 cum	967.90	88079.00
13.3		Stone Chips	cum	182.01 cum	1658.60	301882.00
13.4		Bricks	%o no.	117357 no.	531.00	62317.00
13.5		Cement	MT	65.450 MT	282.30	18477.00
14		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
14.1		Bricks	%o no.	117357 no.	370.80	43516.00
14.2		Cement	MT	65.450 MT	319.00	20879.00
		Total (Schedule Items)				3655745.00
		Non Schedule Items (on Tendered Rate)				
15.2	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, prunning and maintetance for 3 month after planting, all complete.				
16.2		Best quality Health shrubs of species				
16.3		shurbs / Hedge	each	30 no.	30.00	900.00
16.4		Marigold	each	30 no.	15.00	450.00
16.5		Roses	each	30 no.	25.00	750.00
16.6		Oleander	each	20 no.	50.00	1000.00
16.7		Cycus	each	20 no.	50.00	1000.00
16.8		Golden Duranta (ht 6")	each	20 no.	25.00	500.00
16.9		Hamelia	each	15 no.	50.00	750.00
17		Plumeria Albba (Champa)	each	15 no.	200.00	3000.00
17.1		Lantanna Depressa	each	15 no.	150.00	2250.00
17.2		Best quality healthy trees				
17.3		Amaltas	each	12 no.	25.00	300.00
17.4		Ashoka	each	12 no.	25.00	300.00
17.5		Royal Palm	each	12 no.	150.00	1800.00
17.6		Neem	each	3 no.	15.00	45.00
		Total (Non Schedule Items)				13045.00
		Grand Total				3668790.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Chandwara, Muzaffarpur **CYCLE / MOTOR CYCLE STAND** Based on Schedule Rate: BCD Bihar -2016 & DSR - 2016 SOR Rate Amount SI. No. Quantity Item of Work Unit Item No. (Rs.) (Rs.) 1 3 5 4 6 7 2 Cycle / Motor Cycle Stand **And Portico for** Institutional Building Earth work in excavation in foundation trenches or 1 2.8.1 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 38.44 cum 230.50 8860.00 excavated soil and disposal of surplus excavated soil sqm as directed, within a lead of 50 m. All Kinds of soil Filling available excavated earth (excluding rock) in 2 2.26 trenches, plinth, sides of foundations etc. in layers 38.44 not exceeding 20 cm in depth; consolidating each 74.50 cum 2864.00 sqm deposited layer by ramming and watering. 2.28 Supplying and Filling in plinth with local sand and 3 25.67 floors including under watering, ramming 204.40 5247.00 cum cum consolidating and dressing complete. Providing designation 100A one brick flat soling joints 11.72 4 filled with local sand including cost of watering taxes 256.65 sqm 253.80 65138.00 royalty all complete as per building specification and sam direction of E/I. 4.1.3 Providing and laying in position cement concrete of 5 specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:2:4 (1 31.41 3323.10 104379.00 cum Cement: 2 coarse sand:4 graded stone aggregate cum 20mm nominal size) 6 5.1.3 Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all 5.27 work upto plinth level. 1:2:4 (1cement: 2 coarse 3984.50 20998.00 cum cum sand: 4graded stone aggregate 20mm nominal size) Brick work with bricks of class designation 100A in 7 6.1.14A 12.14 foundations and plinth in cement mortar 1:6 (1cement 4490.60 54516.00 cum cum :6 coarse sand) 20 mm cement plaster of mix; 1:6 (1 cement: 6 13.13.4 19.50 8 sqm 140.40 2738.00 coarse sand) sqm 9 5.22 Reinforcement for RCC work including straightening, cutting, bending, placing in position and bonding all complete. 5.22.7A TMTC-500 8mm dia 200.00 9.1 56.00 11200.00 kg kg TMTC-500 10mm dia 9.21 5.22.7B 350.00 54.70 kq 19145.00 kg Steel work in built up tubular trusses including 10.16.1 10 cutting, hoisting, fixing in position and applying a 5125.00 priming coar of approved steel primer, welded and 92.30 473038.00 kg kg bolted including special shaped washers etc. complete: Hot finished welded type tubes

		Grand Total				1038436.00
		Total				1038436.00
14.2		Cement	MT	11.500 MT	319.00	3669.00
14.1		Bricks	%o no.	12439 no.	370.80	4612.00
14		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
13.6		Steel	МТ	0.550 MT	282.30	155.00
13.5		Cement	MT	11.500 MT	282.30	3246.00
13.4		Bricks	%o no.	12439 no.	531.00	6605.00
13.3		Stone Chips	cum	29.44 cum	1658.60	48829.00
13.2		Coarse Sand	cum	18.34 cum	967.90	17751.00
13.1		Local Sand	cum	27.92 cum	181.48	5067.00
13		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
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
11	12.1.4	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost or purlins, rafters and trusses 0.8mm thick with zinc coating not less than 275 gm/sqm	sqm	228.80 sqm	729.60	166932.00

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	Based on Schedule Rate : BCD Bihar -2016 & DSR - 2016							
SI. 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 errection 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	18 no.	22703.00	408654.00		
2	8.13.2	Supplying and errection 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	23 no.	6132.00	141036.00		
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	28 no.	9624.00	269472.00		
5	XLPE6	Supplying of 2 core 6 sqmm XLPE PVC insulated and sheathed armoured cable with alluminium conductor of approved make for working voltage upto and including 1100 volts. (material rate x 1.15 x 1.01)	m.	365.00 m.	548.00	200020.00		
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.	365.00 m.	149.00	54385.00		
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.	280.00 m.	150.00	42000.00		
		Total (Schedule Items)				1236757.00		
		Non Schedule Items (on Tendered Rate)						

Supplying and fixing 10/15 watt LED type garden light with die cast aluminium housing (Philips / Bajaj / Equivalent make) for ingress protection of IP65 and complete with all accessories etc., on pipe post including connection with FR PVC insulated copper conductor cable and earthing the body etc. (complete job) as required	10 no.	31200.00	312000.00
Total (Non Schedule Items)			312000.00
Grand Total			1548757.00
Grand Total			4646271.00

	Muzaffarpur SOLAR PANEL									
	Based on Quation rate.									
SI. 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					

	(FURNITURE AND FURN	NISHING	3		
SI. No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
A A.1	Intitutional Building				
A. 1	Furniture: Supply of Following Steel Furniture of reputed make as per approved sample, including all taxes and FOR at site.				
1	DESK BENCH: Three Seater Class room Desk cum Bench Dimension-1500 x 895 x 750(Approx.) Desk panel Seat, Back-The panels should be made from 18 mm thick pre-laminated Boards with PVC edge banding on all sides, Understructure-Made of 25.4 x 25.4 mm x1.2 mm thick powder coated ERW tubes at base which are welded to the desk and seat supports that are made of 1.0 mm thick powder coated MS 'C' sections. Stiffeners should be provided between the 2 vertical frames at base and back of seat should be made from 25.4 x25.4 x1.2 mm thick powder coated ERW tubes closed with plastic caps. Additional horizontal supports of 1.5 mm thick powder coated MS 'C' sections should be placed below the desk and seat to add to the rigidity of the structure. The storage shelf is made from 0.8 mm thick powder coated MS sheet which is affixed below the desktop. Hooks are provided on either sides of the vertical frame of the desk, for hanging bags/bottles. They are made from 6.0 mm dia MS rods.	each	160	9616.00	1538560.00
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	3906.00	195300.00
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	9888.00	148320.00
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	9888.00	148320.00

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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	2500.00	37500.00
6	OFFICE TABLE: TABLE made of MS ERW round tube dia 25.4 x 1.2mm thick with 25mm thick prelaminated 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	13500.00	27000.00
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	14425.00	14425.00
8	MIDBACK CHAIR: (for Principal) CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hotpressed 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	7010.00	7010.00
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	5510.00	22040.00

10	TABLE (for STAFF ROOM, RESOURCE ROOM, ARTS ROOM, PSYCHOLOGY LABS) : TABLE 1800W Dimension- 1800 x 900 x 740 made of				
	Worktop- 25 thick pre-laminated Particle Board (PLB) with 2mm thick PVC Edge beading, Understructure C – Frames 1.6 mm thick M.S C-frame supporting the Top., Legs- Dia. 38.1 x 1.6 mm thick M.S ERW tube.	each	5	10550.00	52750.00
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	69186.00	276744.00
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	3342.00	133680.00
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	1100.00	66000.00
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	18552.00	185520.00
15	TABLE (for Library): TABLE 1800W Dimension-1800 x 900 x 740 made of Worktop- 25 thick prelaminated 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	10550.00	52750.00

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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	2500.00	50000.00
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	18500.00	185000.00
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	3142.00	125680.00
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	3906.00	3906.00
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	4810.00	4810.00
21	Single sheet bed (for Sick room) of standard ayush semi flower with Mattress	each	1	30109.00	30109.00

-00	MIDDAOK OHAID (F. D.: 'I) OHAID MILD I				1
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	each	1	7010.00	7010.00
	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.				
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		4	0000 00	0000 00
	unit made of 0.5 mm thick CRCA sheet mild steel, all	each	1	9888.00	9888.00
	steel components shall be powder coated paint fitted				
	with lock.				
A.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,		00	0000 00	00004000
	hanging shackle without regulator including	each	90	2226.00	200340.00
	connection with all necessary material complete				
	1400mm Sweep				
2	Supplying errection and testing of approved make wall				
	Mounting fan of AC-230-250 volts with all	each	8	2493.00	19944.00
	accessories material complete400mm Sweep				
3	Supplying errection and testing of approved make				
	Fresh Air fan of AC-230-250 volts with all accessories	each	8	1231.00	9848.00
	material complete225mm Sweep			00	00.000
4	Supplying and Instalation of 30 Ltr capacity water				
	cooler voltas or equivalent make complete job as per	each	1	35000.00	35000.00
	direction of engineer encharge.	CUOIT		00000.00	00000.00
5	Supplying and Instalation of Kent water purifier with				
3	UV protection complete job as per direction of	each	1	16500.00	16500.00
	engineer encharge.	Cacii	ı	10300.00	10300.00
6	Supplying and testing and commissioning of colour				
l	camera (Dome Shaped) 800 TVL lookman make				
	model secura SXD -1318 MT day night vision camera	each	12	5337.00	64044.00
	, ,				
7	IR distance 15m all complete job. Supplying and testing and commissioning of Digital				
'	video Recorder lookman make 24 Channel model				
		0004	4	64422.00	64422.00
	secura SDVR -9224Standalone N/W DVR along with	each	1	64132.00	64132.00
	Hard disk HDD 1000GB all complete job.				
8	Supplying and testing and commissioning of Switcher				
	Comtech make model all complete job.	each	1	9600.00	9600.00
9	Supplying and testing and commissioning of colour TV				
	monitors make sony/samsung 21" all complete job.	each	1	8650.00	8650.00
	mornioro make sorry/samsung 21 all complete job.	Guon	'	5555.50	5555.50

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10	Supplying and testing and commissioning of cable for power I/P to camera laying of cable all complete job.	mtr	300	28.75	8625.00
11	Supplying and testing and commissioning of RJ-6 wire all complete job.	mtr	500	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	55.00	27500.00
	Provision for Play & Sports Equipments	LS			120000.00
	Total (Institutional Building)				3919005.00
	rotal (mattational ballang)				3313003.00
В	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	7236.00	1505088.00
2	Study Table: Table of size 600 x 450 x 750 mm made of 18mm thick pre-laminated Board with PVC edge banding. Panel of 18mm thick Pre-Laminated Board with Single drawer	each	201	3300.00	663300.00
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	2500.00	500000.00
4	King Size Double Bed for Warden as per approved sample.	each	2	19500.00	39000.00
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	11509.00	552432.00
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	2500.00	500000.00

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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	14425.00	28850.00
8	MIDBACK CHAIR: (for Warden) CHAIR Mid Back; The seat and back are made up of 1.2 cm. thick hotpressed 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	7010.00	14020.00
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	5510.00	22040.00
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	200	16610.00	3322000.00
12	Kitchen wall Storage of size 500 x 695 x381 mm as per approved sample	each	10	11021.00	110210.00
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	1100.00	4400.00

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	2500.00	125000.00
B.2	Fixture :				
1			142	2226.00	316092.00
2	Supplying errection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete225mm Sweep	each	12	1231.00	14772.00
3	Supplying and Instalation of 30 Ltr capacity water cooler voltas or equivalent make complete job as per direction of engineer encharge.	each	2	35000.00	70000.00
4	Supplying and Instalation of Kent water purifier with UV protection complete job as per direction of engineer encharge.	each	2	16500.00	33000.00
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	42000.00	84000.00
	Utencils (for both Hostels of 100 student each)				
	i) For preparation of food (Tawa & Tasla of different size, Pressure Cooker, etc)	LS			36000.00
	ii) For Consumption of food (Plate (Thali), Half plate, Quarter plate, Bawls, Spoon, Fork, Service tray, etc)	LS			110000.00
	GAS BURNER & CYLLENDER	LS			20000.00
	Total (Both Hostel)				8070204.00
С	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.	each	1	7010.00	7010.00
	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.				
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	5510.00	22040.00
3	OFFICE TABLE: TABLE made of MS ERW round tube dia 25.4 x 1.2mm thick with 25mm thick prelaminated 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	13500.00	13500.00
4	STEEL ALMIRAH: Steel Almirah of size 1980 x 916 x 486 mm with Four Shelves multi bend construction and inter locking design and full length over applying doors and sides. Three-way bolting mechanism. Spot welding & CO2 welding. Anticorrosion treated components, oven baked powder coating process. Material thickness 0.9mm.Top, Bottom, LH& RH sides and back material thickness= 0.9mm,Removable RH & LH main door with stiffeners material thickness= 0.9mm, 4 adjustable shelves of thickness= 0.8mm.	each	2	18552.00	37104.00
5	SOFA SET : 2-Seater Sofa as per approved sample	each	1	21800.00	21800.00
6	SOFA SET : 1-Seater Sofa as per approved sample	each	2	9926.00	19852.00
7	SOFA SET : Central Table with Glazed top of approved sample	each	1	9189.00	9189.00
8	DINING TABLE SET: Dining Table set with Glazed top with 6 no. Armless Dining Chair as per approved sample	each	1	36000.00	36000.00

	GRAND Total (Complete Furniture & Fixture)				12192527.00
	Total (Pricipal Quarter)				203318.00
2	Supplying errection and testing of approved make Fresh Air fan of AC-230-250 volts with all accessories material complete225mm Sweep	each	3	1231.00	3693.00
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 complete1400mm Sweep	each	5	2226.00	11130.00
C.2	Fixture:				
10	King Size Double Bed for Warden as per approved sample.	each	1	19500.00	19500.00
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	2500.00	2500.00

Detailed Estimate and Abstract of Cost for Phase II work of PTEC Campus at Chandwara, Muzaffarpur

ISI, No. Item of Work Unit Quantity								
SI. No.	Item No.	Item of Work	Unit	Quantity	(Rs.)	Amount (Rs.)		
1	2	3	4	5	6	7		
1	2.8.1	Civil Work Earth work in excavation in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All Kinds of soil	cum	16.46 cum	230.50	3794.00		
2	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering.	cum	16.46 cum	74.50	1226.00		
3	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	0.92 cum	204.40	188.00		
4	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering taxes royalty all complete as per building specification and direction of E/I.	sqm	8.00 sqm	253.80	2030.00		
5	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work upto plinth level. 1:3:6 (1 Cement: 3 coarse sand:6 graded stone aggregate 20mm nominal size)	cum	0.80 cum	2775.70	2221.00		
6	5.1.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing & reinforcement - all work upto plinth level. 1:1:2 (1cement: 1 coarse sand: 2	cum	2.47 cum	6035.20	14907.00		
7	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement.; 1:1:2 (1cement: 1 coarse sand: 2 graded stone aggregate 20mm nominal size)	cum	8.40 cum	6644.60	55815.00		
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 sqm	169.00	635.00		
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 sqm	357.60	24317.00		
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 kg	56.00	33600.00		
10.2	5.22.7C	TMTC-500 12mm dia	kg	1350 kg	53.40	72090.00		
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	3 cum	5237.70	13094.00		
12	13.11.4	12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	sqm	10 sqm	101.20	1012.00		

SI. No.	SOR Item No.	Item of Work	Unit	Quantity	Rate (Rs.)	Amount (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 : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels Granite of any colour and shade Area of slab over 0.50 sqm	sqm	58 sqm	3573.70	207203.00
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 kg	76.70	52156.00
15	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade two or more	sqm	13.50 sqm	54.10	730.00
16		CARRIAGE OF MATERIALS (Rates inclusive of CESS)				
16.1		Local Sand	cum	1.08 cum	181.48	196.00
16.2		Coarse Sand	cum	8.20 cum	967.90	7937.00
16.3		Stone Chips	cum	9.99 cum	1658.60	16569.00
16.4		Bricks	%o no.	1493 no.	531.00	793.00
16.5		Cement	MT	4.950 MT	282.30	1397.00
16.6		Steel	MT	1.950 MT	282.30	550.00
17		Add extra cost of material for Muzaffarpur Zone w.r.t Gaya Zone (as per BCD SOR)				
17.1		Bricks	%o no.	1493 no.	370.80	554.00
17.2		Cement	MT	4.950 MT	319.00	1579.00
		Grand Total				514593.00

	-			
No.	Description	D	Details	Quantity
	Construction of Guard Room			
1	Earthwork in excavation in Foun	ndation		
	Total		$4 \times 1.20 \times 1.20 \times 2.25 = $	12.96 cum
	Total		-	12.96 cum
	Filling available excavated earth	(excluding roc	k) in trenches, plinth, sides of	
	Qty same as E/W excavation	` 3		12.96 cum
				12.96 cum
	Supplying and filling in plinth wit	h local sand an	d under floors including.	
			4 x 1.20 x 1.20 x 0.08 =	0.46 cum
			$1 \times 3.05 \times 3.05 \times 1.20 =$	11.16 cum
				44.00
			<u>=</u>	11.62 cum
	Providing Designation 100A Brid	ck flat Soling		
	9	· ·	$4 \times 1.20 \times 1.20 =$	5.76 sqm
			4 x 3.30 x 0.25 =	3.30 sqm
			1 x 3.05 x 3.05 =	9.30 sqm
			1 x 1.20 x 1.00 =	1.20 sqm 19.56 sqm
				10.00 04
	PCC 1:3:6			
			4 x 1.20 x 1.20 x 0.075 =	0.43 cum
			1 x 3.05 x 3.05 x 0.075 = 1 x 1.20 x 1.00 x 0.075 =	0.70 cum 0.09 cum
			= = = = = = = = = = = = = = = = = = =	1.22 cum
	RCC 1:1.5:3 in Foundation & Pli	inth		
			$4 \times 1.20 \times 1.20 \times 0.75 =$	4.32 cum
			$4 \times 3.30 \times 0.25 \times 0.30 = 1 \times 3.20 \times 0.25 \times 0.300 =$	0.99 cum 0.24 cum
			1 X 3.20 X 0.23 X 0.300 <u>-</u>	5.55 cum
	RCC 1:1.5:3 in Column			
			4 x 0.30 x 0.30 x 6.75 =	2.43 cum
			<u>=</u>	2.43 cum
	RCC 1:1.5:3 in beam, Lintel & S	lab		
	,		$4 \times 3.30 \times 0.25 \times 0.20 =$	0.66 cum
			$4 \times 3.30 \times 0.25 \times 0.30 =$	0.99 cum
			$1 \times 3.96 \times 3.96 \times 0.15 =$	2.35 cum
			2 x 2.50 x 0.45 x 0.08 = 1 x 1.20 x 1.00 x 0.10 =	0.17 cum 0.12 cum
			1 X 1.20 X 1.00 X 0.10 <u>-</u>	4.29 cum
	Brick work with bricks of class d	esignation 100		0.00
			4 x 3.05 x 0.25 x 1.20 = 1 x 1.00 x 1.00 x 0.60 =	3.66 cum 0.60 cum

		4.50
		4.56 cum
Brick work with bricks of class designation 100A in superstructure in cem	ent	
4 x 3.05 x 0.25 x 3		9.61 cum
d 1 x 1.00 x 0.25 x 2		-0.53 cum
d 2 x 2.00 x 0.25 x	0.75 =	-0.75 cum
	=	8.33 cum
40		
12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand) 4 x 3.05 x 3	3.05 -	37 21 sam
4 X 3.03 X 3		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
1 X 6166 X		66.22 sqm
		OULE ONIII
6mm thick Cement plaster in ceiling of mix 1:4 (1 cement : 46 coarse sai		
1 x 3.05 x	3.05 =	9.30 sqm
	=	9.30 sqm
Kotah stone slab flooring 1 x 3.05 x 3	3.05 -	0.30 cam
1 x 3.05		9.30 sqm 1.00 sqm
3 x 1.00 x		1.35 sqm
2 x 2.50 x		1.25 sqm
4 x 3.05 x		1.83 sqm
	=	14.73 sqm
	=	14.73 sqm
Providing and fixing T-iron frames for door choukhat	=	14.73 sqm
Door measured weight	=	
	=	14.73 sqm 18.20 kg
Door measured weight	=	
Door measured weight D (1.00 m x 2.1 m)		18.20 kg
Door measured weight		18.20 kg
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter	=	18.20 kg
Door measured weight D (1.00 m x 2.1 m)	=	18.20 kg
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter	=	18.20 kg
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter	<u>=</u> 2.10 =	18.20 kg 18.20 kg 2.10 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter	<u>=</u> 2.10 =	18.20 kg 18.20 kg 2.10 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 3 Providing and fixing Gazed Steel window (sliding type)	2.10 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2	2.10 =	18.20 kg 18.20 kg 2.10 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 3 Providing and fixing Gazed Steel window (sliding type)	2.10 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 3 Providing and fixing Gazed Steel window (sliding type)	= 2.10 = = 0.75 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 3 Providing and fixing Gazed Steel window (sliding type)	= 2.10 = = 0.75 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2 Providing and fixing Gazed Steel window (sliding type) W 2 x 2.00 x 6	= 2.10 = = 0.75 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2 Providing and fixing Gazed Steel window (sliding type) W 2 x 2.00 x 6	= 2.10 = = 0.75 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2 Providing and fixing Gazed Steel window (sliding type) W 2 x 2.00 x 6	= 2.10 = = 0.75 =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm 54.00 kg
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2 Providing and fixing Gazed Steel window (sliding type) W 2 x 2.00 x 6	= 2.10 = = 0.75 = =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm
Door measured weight D (1.00 m x 2.1 m) Providing and fixing Flush door shutter D (1.00 m x 2.1 m) 1 x 1.00 x 2 Providing and fixing Gazed Steel window (sliding type) W 2 x 2.00 x 6	= 2.10 = = 0.75 = =	18.20 kg 18.20 kg 2.10 sqm 2.10 sqm 3.00 sqm 54.00 kg

TMTC-500 12mm dia 1000.00 kg

Centering and shuttering including strutting, propping etc. and removal of

PCC $16 \times 1.20 \times 0.08 = 1.44 \text{ sqm}$ $1 \times 3.40 \times 0.08 = 0.26 \text{ sqm}$ RCC $16 \times 1.20 \times 0.75 = 14.40 \text{ sqm}$

= 16.10 cum

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

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

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

PCC $4 \times 1.20 \times 6.75 = 32.40 \text{ sqm}$ = 32.40 cum

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

RCC $1 \times 3.96 \times 3.96 = 15.68 \text{ sqm}$ $2 \times 2.50 \times 0.45 = 2.25 \text{ sqm}$ $1 \times 1.20 \times 1.00 = 1.20 \text{ sqm}$ = 19.13 cum

Open Air Theater type Earthen Seating platform

1 E/W excavation

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

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

		Ξ	8.27 cum
•			
3	Brick Flat Soling 1 x 17.89 x 0.45	=	8.05 sqm
	1 x 6.10 x 0.45		2.75 sqm
	1 x 3.95 x 0.45		1.78 sqm
	1 x 2.11 x 0.45	=	0.95 sqm
	2 x 4.00 x 0.45	=	3.60 sqm
			17.13 sqm
			•
4	PCC 1:2:4	_	0.04
	1 x 17.89 x 0.45 x 0.10 1 x 6.10 x 0.45 x 0.10		0.81 cum 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	=	0.70 cum
	2 x 4.00 x 0.45 x 0.10		0.36 cum
			1.71 cum
		_	1.71 Cuiii
5	Brick work in CM 1:6		
	1 x 19.89 x 0.25 x 0.75		3.73 cum
	1 x 8.18 x 0.25 x 0.60		1.23 cum
	1 x 5.95 x 0.25 x 0.45		0.67 cum
	1 x 4.11 x 0.25 x 0.30	=	0.31 cum
		=	5.94 cum
6	12 mm Cement Plaster in CM 1:6		
	1 x 12.48 x 0.75	=	9.36 sqm
	2 x 1.00 x 0.60	=	1.20 sqm
	2 x 1.00 x 0.45		0.90 sqm
	1 x 4.11 x 0.30	=	1.23 sqm
		=	12.69 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 x 25.00 x 6.00 x 0.15	=	22.50 cum
		=	22.50 cum
3	Interlocking Cement Concrete paver blocks		
Ū	1 x 25.00 x 6.00	=	150.00 sqm
		Ξ	150.00 sqm
1	PCC 1:2:4		
4	2 x 31.00 x 0.15 x 0.10	=	0.93 cum
		=	0.93 cum

Construction of Approach Road / Pathways Supplying and filling in plinth with local sand and under floors including, $1 \times 447.00 \times 3.05 \times 0.10 =$ 136.34 cum $1 \times 447.00 \times 1.20 \times 0.30 =$ 160.92 cum 297.26 cum Providing Designation 100A Brick flat Soling $1 \times 447.00 \times 3.05 =$ 1363.35 sqm 1363.35 sqm Providing Designation 100A one Brick on Edge Soling $1 \times 447.00 \times 3.05 =$ 1363.35 sqm 1363.35 sqm PCC 1:2:4 $1 \times 447.00 \times 3.05 \times 0.150 =$ 204.50 cum 204.50 cum Centering and shuttering including strutting, propping etc. and removal of form for foundation, footings, bases of columns etc. for mass concrete. PCC $2 \times 447.00 \times 0.15 =$ 134.10 sqm 134.10 sqm Providing Dry Rubble flooring with approved size and type of Rubble 2 x 447.00 x 0.60 x 0.15 80.46 cum 80.46 cum Cast in Situ Cement Concrete M 20 Kerb with Channel (Construction of 2 x 447.00 894.00 m 894.00 m **Construction of Main Gate** Earthwork in excavation in Foundation $2 \times 2.15 \times 2.15 \times 1.78 =$ 16.46 cum Total 16.46 cum Filling available excavated earth (excluding rock) in trenches, plinth, sides of Qty same as E/W excavation 16.46 cum 16.46 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 cum 0.92 cum

Providing Designation 100A Brick flat Soling

2 x 2.00 x 2.00	=	8.00 sqm
	=	8.00 sqm
		•
PCC 1:3:6		
2 x 2.00 x 2.00 x 0.100	=	0.80 cum
	=	0.80 cum
RCC 1:1:2 in Foundation & Plinth		
2 x 1.80 x 1.80 x 0.15	=	0.97 cum
2 x 1.88(ave. area) x 0.40		1.50 cum
= // 1100 (avo. avos) // 0110		
	=	2.47 cum
RCC 1:1:2 in Column		
2 x 1.00 x 1.00 x 0.95		1.90 cum
2 x 2 x 1.00 x 0.25 x 5.00		5.00 cum
2 x 2.50 x 1.00 x 0.30	=	1.50 cum
	=	8.40 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 x 8.00 x 0.10	=	1.60 sqm
For RCC 2 x 7.20 x 0.15	=	2.16 sqm
	=	3.76 sqm
		on o oqiii
Centering and shuttering including strutting, propping etc. and removal of		
form for Columns, pillars, piers, abutments, posts and struts		
2 x 4.00 x 0.95	_	7.60 sqm
2 x 4.00 x 0.33 2 x 2 x 2.50 x 5.00		50.00 sqm
2 x 2.50 x 5.00 2 x 2.50 x 1.00		5.00 sqm
2 x 2.30 x 1.00 2 x 9.00 x 0.30		5.40 sqm
2 x 9.00 x 0.30	<u>-</u>	68.00 sqm
		00.00 34111
Reinforcement for RCC Work		
Nemiorement for NGC 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 6hm dia	_	1350.00 kg
TWITO-300 IZIIIII dia	_	1000.00 kg
Brick work with bricks of class designation 100A in superstructure in cement		
2 x 2 x 0.50 x 0.25 x 5.00	=	2.50 cum
2 x 2 x 0.00 x 0.20 x 0.00		
	=	2.50 cum
40mm 4hinly 0 - m - m hula - h - m - f - m in 4.0 (4 m - m h + 0 m m h)		
12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	_	10.00
2 x 2 x 0.50 x 5.00	_	10.00 sqm
	=	10.00 sqm
Granite stone slab cladding		
2 x 4.40 x 5.10	=	44.88 sqm
2 x 2 x 2.50 x 0.30	=	3.00 sqm
2 x 2.50 x 1.00	=	5.00 sqm
2 x 1.60 x 1.00	=	3.20 sqm
2 x 0.30 x 1.00	=	0.60 sqm
		-

	$2 \times 0.65 \times 1.00 =$	=	1.30 sqm
	<u> </u>	=	57.98 sqm
M S Grill gate			
5 5 gane			580.00 kg
	<u> </u>	=	580.00 kg
Synthetic enamel paint over Steel surface			
оулиново опапно раши отог отого от пасо	1 x 4.50 x 3.00 =	=	13.50 sqm
	<u> </u>	=	13.50 sam

SI.	Item				Lenath	Breadth	Height	Nos		
lo.		Item of Work	Location	Decription	L	В	H/Depth	Nos	Quantity	uni
1	EARTH	WORK IN EXCAVATION								
							-			
	2.8.1	Earthwork in excavation in	Footing	F-1 &F-2	1.20	0.80	1.45	83	115.54	
		areas(exceeding 30cm in depth. 1.5m in	- J	F-3	1.20	1.08	1.45	22	41.34	
		width as well es 10sqm on plan) incloding dressing of sides and ramming of	Below Tie		416.00	0.25	0.25	1	26.00	
		bottom,lift upto 1.5 including getting out the	Beam				_			
		excavated soil and disposal of surplus soil					-		182.88	cu.n
2	EARTH	as directed within a lead of 50m					_		.02.00	•
	2.26	Filling available excavated earth (excluding		Excavated Qty.		182.8	80		182.88	
		rock) in trenches and plinth side of								
		foundation etc. in layers not exceeding 20cm. thick in depth consolidating each	Oty camp as							
		deposited layer by ramming and watering								
		lead.								
									400.00	
3	SAND	FILLING					L		182.88	cu.r
•	2.28	Suppliying and filling in plinth with local	In	F 4 2 F 2	4	0.00-		02		
		sand and under floots including watering,	Foundation	F-1 &F-2	1.200	0.800	0.100	83	7.97	
		ramming consolidating and dressing		F-3	1.200	1.080	0.100	22	2.85	
		complete.					_			
1	EL AT E	PRIOR COLING					_		10.82	cu.ı
+	11.72	RICK SOLING Providing designation 100 A one brick flat	In				-			
	11.72	soling joints filled with local sand including		F-1 &F-2	1.200	0.800		83	79.68	
		cost of watering, taxes, royalty all complete		F-3	1.200	1.080	_	22	28.51	
		as per building specification and direction of E/I,	20.011 1.0		416.00	0.250		1	104.00	
		OI E/I,	Beam				-		212.19	601
5	P.C.C.						-		212.19	Sq.i
	4.1.5	Providing and laying in position cement	In	F 4 9 F 0	1 200	0.000	0.400	00	7.07	
		concrete of specified grade excluding the	Foundation	F-1 &F-2	1.200	0.800	0.100	83	7.97	
		cost of centring and shuttering- all work upto plinth level.		F-3	1.200	1.080	0.100	22	2.85	
		1:3:6 (1cement: 3 coarse sand : 6 graded					_	(4)	40.00	
		stone aggregate 20mm nominal size)					-	(A)	10.82	
							-	(A)	10.820	CII r
6	R.C.C.	WORK in Foundation & Plinth					_	(7-1)	10.020	ou
	5.1.1	Providing and laying in position specified	Raft				_			
		grade of reinforced cement concrete	_ In	F-1 &F-2	1.200	0.800	0.150	83	11.95	
		excluding the cost of centring, shuttering, finishing & reinforcement - all work upto	Foundation Pedestal				_			
		plinth level.	In	F-1 &F-2	1.050	0.600	0.150	83	7.84	
		1:1:2 (1 cement:1 coarse sand:2 graded								
		stone aggregate	Column up	F-1 &F-2	0.250	0.300	0.750	83	4.67	
		20mm nominal size)	to tie beam Raft				_			
			In	F-3	1.200	1.080	0.150	22	4.28	
			Foundation				_			
			Pedestal In	F-3	1.050	0.800	0.150	22	2.77	
			Foundation		1.050	0.000	0.130		2	
			Column up	F-3	0.250	0.300	0.750	44	2.48	
			to tie beam		0.250	0.000	-			
_	RCC	WORK ABOVE TIE LVL.					_		33.99	cu.r
7	5.2.1	Reinforced cement concrete work in wall		Stiffner	0.250	0.300	2.100	127	20.00	
		(any thickness), including attached		Tie beam	416.00	0.250	_	1	26.00	
		pilasters, buttresses, plinth and struts etc		At top	416.00	0.300	-	1	12.48	
		upto floor ive level excluding the cost of centring, shuttering, finishing &			0.000	0.300	-	1	0.00	
		reinforcement - all work upto plinth level.			0.000	0.250	_	1	0.00	
		1:1:2 (1 cement: 1 coarse sand: 2 graded							58.48	cu.ı
	BRICK	WORK					-			
							_		450.00	
В	6.1.14A	Brick work with bricks of class designation	Wall		416.00	0.250	1.500	1	156.00	

	6.3A	upto live floor cement mortar 1:6 (Tcement :6 coarse sand)					(A)	156.00	
		,					(A - B)	156.00	cu.m
		ER WORK							
9	13.11.4	12mm thick Cement plaster of mix 1:6 (1		Wall	416.00	1.600	2	1331.20	_
		cement : 6 coarse sand)		Ctiffman	416.00	0.350	0	145.60	_
				Stiffner	1.100 0.000	0.600 1.600	2	0.00	_
					0.000	0.350	1	0.00	_
					0.000	0.330	-	1476.80	_
								1476.80	_
	FINISH	ING WORK						147 0.00	34
10	_	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)		Wall				1476.80	sq.m
		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/							
11	12 21 2	10 sqm) Applying priming coat with ready mixed	Steel work		416.00	0.600	1	249.60	
• •	13.01.3	zinc chromate yellow primer of approved	Steel Work		410.00	0.000		249.600	_
12	13 93 1	Painting with synthetic enamel paint of	Steel work		416.00	0.600	1	249.60	<u> </u>
	10.00.1	approved brand and manufacture to give	Older Work		410.00	0.000	-	249.600	_
	STEEL	9						240.000	oqiiii
13	-	Providing and fixing M.S. grills of							
		requirement pattern in frames of	Grill	Over Boundry	416.00	0.60	1	249.60	sa.m
		windows etc. with M.S. flats, square or			0.00	0.600	1		sq.m
		round bars etc.all complete				Per sq m. @	25kg	6240.00	
							Total	6240.00	Kgs.
14	5.22	Reinforcement for RCC work including							
		straightening, cutting, bending, placing in							
	5 00 7A	position and bonding all complete.							.,
	-	TMTC-500 -8mm dia TMTC-500 -10mm dia						5600	
		TMTC-500 -10mm dia						2950	_
	3.22.70	TWITC-500 - 12IIIIII dia						6200	Kgs.
	SHUTT	FRING							
15	5.9.1	Centring and shuttering including strutting,		F-1 &F-2	0.800	0.150	166	19.92	
	0.0.1	propping etc. and removal of form for	RCC	F-1 &F-2	1.200	0.150	166	29.88	_
		foundation, footings, basees of columns		F-3	1.200	0.150	44	7.92	_
		etc. for mass concrete.		F-3	1.080	0.150	44	7.13	_
			PCC	-	4.000	0.100	83	33.20	
			PCC		4.560	0.100	22	10.03	
								108.08	sq.m
16	5.9.6	Centring and shuttering including strutting,	Above TB	Stiffner	1.10	2.10	127	293.37	
		propping etc. and removal of form for	Below TB	Suimer	1.10	0.75	127	104.78	
		columns, pillars, piers, abutments, posts and struts						398.15	ea ~
		and strate						J30.13	3q.III
17	5.9.5	Centring and shuttering including strutting,		TB	416.00	0.250	2	208.000	
		propping etc. and removal of form for lintel, beams, plinth beams, griders, bressumers		Тор	416.00	0.250	1	104.000	_
		and contilevers.			0.00	0.100	2	0.000	
					0.00	0.100	2	0.000	
								312.000	sq.m
18		C	ARRIAGE	OF MATER	RIALS				
		Type of materials							
		Cement						55.400	МТ
		Coarse Sand						107.10	_
		Local Sand						15.06	
		Stone Chips						88.77	_
		Brick						83913	_
		Steel						14.750	_
		Add Extra Cost						00	
		Brick						83913.0	Nos
		Cement						55.400	_

	Mat	erial Stat	ement	(for carriage	purpose)			
SI. no.	Particulars of Item	Quan	ntity	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	212.19	sqm.				6849	4.24
2	Brick work in CM (1:6)	156.00	<u> </u>	9750.00	40.56		77064	
3	12 mm Cement Plaster in CM (1:6)	1476.80	sqm.	5316.48	22.15			
4	PCC M100 (1:3:6)	10.82	cum.	2380.40	5.09	10.17		
5	RCC M250		cum.	37912.70	39.30	78.60		
6	Sand in filling	10.82	cum.					10.82
	Total			55359.58	107.10	88.77	83913	15.06
				55.400				
				MT				
	Development of Parking Area							
		0.00		007.00	0.44	0.00		
1	PCC M150 (1:2:4) Sand in filling	22.50	cum.	297.60	0.41	0.83		22.50
2	Tiles Flooring	22.50						22.50
			sqm.					
	Total			297.60	0.41	0.83		22.50
				0.300				
				MT				
	APPROACH ROAD, PATHWAYS & DRAIN							
1	Brick edge soling	1363.35	sqm.				73348	54.53
2	Brick flat soling	1363.35	sqm.				44009	27.27
3	PCC M150 (1:2:4)	204.50	cum.	65440.00	91.00	182.01		
4	Sand in filling	297.26	cum.					297.26
1 2 3	Total			65440.00	91.00	182.01	117357	379.06
				65.450				
				MT				
	MAIN GATE							
1	Brick flat soling	8.00	sqm.				258	0.16
2	Brick work in CM (1:6)		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				

SI. no.	Particulars of Item	Quan	tity	Cement in kg.	Sand in cum.	Stone chips in cum.	Bricks in no.	Local Sand in cum.
8	Brick edge soling	1363.35	eam				73348	54.53
9	Brick flat soling	1363.35	-				44009	27.27
E 4 N 1 1 6	Brick work in CM (1:4)	1303.33	cum.				44009	21.21
	Brick work in CM (1:6)		cum.					
	40 mm Cement Concrete flooring with M150		cum.					
	1.5 mm Cement Punning		sqm.					
	6 mm Cement Plaster in CM (1:4)		sqm.					
	12 mm Cement Plaster in CM (1:3)		sqm.					
	12 mm Cement Plaster in CM (1:4)		sqm.					
	12 mm Cement Plaster in CM (1:6)		sqm.					
	20 mm Cement Plaster in CM (1:6)		sqm.					
	M20 C.C Kerb		m.					
	Marble / Kotah flooring		sqm.					
	60mm cement concrete paver block		sqm.					
	PCC (1:4:8)		cum.					
	PCC M100 (1:3:6)		cum.					
10	PCC M150 (1:2:4)	204.50	cum.	65440.00	91.00	182.01		
	Plinth protection 50mm thick CC (1:3:6)		sqm.					
	125 mm Brick work in CM (1:4)		sqm.					
	75 mm Brick work in CM (1:4)		sqm.					
	RCC M150		cum.					
	RCC M200		cum.					
	RCC M250		cum.					
11	Sand in filling	297.26	cum.					297.26
	Tiles Flooring		sqm.					
	Tiles / Marble / Kotah skirting		sqm.					
	Tiles on wall		sqm.					
	Total			65440.00	91.00	182.01	117357	379.06
ļ				65.450				
				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

lt4	em No.	Item of Work	Decription	Location		Breadth		Nos	Quantity	unit
					L	В	H/Depth	Nos		
		ORK 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)		-	0.00	0.000	0.55-		0,	
		including dressing of sides and ramming of	F-4	_	3.000	9.200	2.225	1	61.410	
		bottom, lift upto 1.5 including getting out the	F-5		3.250	3.250	2.225	2	47.000	
		excavated soil and disposal of surplus soil as	F-9		3.400	9.400	2.225	1	71.110	
		directed within a lead of 50m. All Kind of soil	F-10	Foundation	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	
			TB-2		13.680	0.250	0.525	1	1.800	
			TB-4		7.010	0.250	0.525	1	0.920	
			TB-5	Tie Beam	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		0.250	0.300	1	0.500	
					1.270 3.045	0.250 0.250	0.300 0.300	2	0.100 0.460	
			Ramp wall		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	
E/	ARTH FI	LUNG							382.110	cu.m
2	2.26	Filling available excavated earth (excluding rock) in	Excavated		382.110			382.110		
		trenches and plinth side of foundation etc. in layer								
		not exceeding 20cm. thick in depth consolidating							382.110	cu.m
	AND FIL									
3	2.28	Suppliying and filling in plinth with local sand and								
		under floots including watering, ramming consolidating and dressing complete.	F-4		3.000	9.200	0.100	1	2.760	
		compound and dressing complete.	F-5		3.250	3.250	0.100	2	2.110	
			F-9	Foundation	3.400	9.400	0.100	1	3.200	
			F-10	Foundation	3.400	5.000	0.100	1	1.700	
			F-11		9.300	5.000	0.100	1	4.650	
			F-12		3.300		0.100	1	1.160	
			F-13		3.300	3.300	0.100	1	1.090	
			TB-2		13.680		0.100	1	0.340	
			TB-4	-	7.010		0.100	1	0.180	
			TB-5	Tie Beam	3.600	0.250	0.100	1	0.090	
			TB-6		8.755	0.250	0.100	1	0.090	
			TB-9	+	4.365					
						0.250	0.100	1	0.110	
			STEPS		2.800	1.270	0.150	1	0.530	
				1	0.045	4.076	0.455		00:0	
					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	
			Ramp wall		1.270	0.250	0.150	1	0.050	
					3.190	0.250	0.150	2	0.240	

			.		Length	Breadth	Height	Nos		٠.
	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
					1.270	0.250	0.150	1	0.050	
								(A)	20.840	cu.m
				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	
			Flooring	Dining Room	3.045	4.265	0.900	1	11.690	
			at ± 0.00 lvl.	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	
								(5)	00.050	
								(B)	80.950	
	EI AT DDI	CK SOI ING						(A+B) :	101.790	cu.m
4	11.72									
4	11.72		F 4	-	0.000	0.000			07.000	
			F-4		3.000	9.200		1	27.600	
		BRICK SOLING '2 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-5	-	3.250	3.250		2	21.130	
			F-9	Foundation	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 TB-4	_	13.680 7.010	0.250 0.250		1	3.420	
									1.750	
			TB-5	Tie Beam	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	
					3.345	1.270		1	4.250	
			Ramp		3.045	1.270		1	3.870	
				_	3.190	1.270		1	4.050	
				Main Entrance	3.345	0.250		2	1.670	
					1.270 3.045	0.250 0.250		2	0.320 1.520	
			Ramp wall		1.270	0.250			0.320	
					3.190	0.250		2	1.600	
					1.270	0.250		1	0.320	
									30.830	sq.m
							<u></u>	(A+B)	197.460	
				Bed Room	3.350	4.265		1	14.288	
				Bed Room	3.350	4.115		1	13.785	
				Ded KOOIII	3.330	7.113		1	13.703	

	Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit	
	item No.	Item of work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit	
				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		
			Flooring	Toilet Area	1.500	2.100		1	3.150		
			at ± 0.00 lvl.	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		
							(A+B)+(C)	99.540 253.800		
5	P.C.C. 4.1.3	Providing and laying in position cement concrete of								•	
5	4.1.3	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	F-4		3.000		0.075	1	0.225		
		mm nominal size)	F-5		3.250		0.075	2	0.488		
			F-9	Foundation	3.400		0.075	1	0.255		
				F-10	-	3.400		0.075	1	0.255	
				F-11	-	9.300		0.075	1	0.698	
			F-12	-	3.300		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	Tie Beam	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		
					3.345	1.270	0.075	1	0.319		
			Ramp		3.045	1.270	0.075	1	0.290		
				-	3.190	1.270	0.075	1	0.304		
				Main Entrance	3.345	0.250	0.075	2	0.125		
					1.270	0.250	0.075	1	0.024		
			Ramp wall		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		
				Bed Room	3.350	4.265	0.075	1	1.072		
				Bed Room	3.350	4.115	0.075	1	1.034		
				Balcony	3.625	1.220	0.075	1	0.332		
				Balcony	3.045	1.220	0.075	1	0.279		

					Length	Breadth	Height	Nos		
	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
				Dining Room	3.045	4.265	0.075	1	0.974	
			±0.00 LVL. Flooring	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)		cu.m
	FLOORIN	 						(A+B)	12.200	cu.m
6	11.38	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the		Toilet Area	1.500	2.100		1	3.150	
		manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except	at ± 0.00 lvl.	Toilet Area	1.545	2.100		1	3.245	
		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		Kitchen	2.100	2.975		1	6.248	
		cement and matching pigments etc. complete.		Toilet Area	1.500	2.100		2	6.300	
			at +3300 lvl.	Toilet Area	1.545	2.100		2	6.489	
				Kitchen	2.100	3.350		2	14.070	
				Toilet Area	1.500	2.100		2	6.300	
			at +6600 lvl.	Toilet Area	1.545	2.100		2	6.489	
				Kitchen	2.100	3.350		2	14.070	
	WALL TIL	Ee							66.360	sq.m
7	11.36	Providing and fixing 1st quality Ceramic glazed wall tiles conforming to IS: 15622 (thickness to be		Toilet Area	1.500	2.100	2.100	1	15.120	
		specified by the nufacturer) of approved make in all colours, shades, except burgundy, bottle green,	at ± 0.00 lvl.	Toilet Area	1.545	2.100	2.100	1	15.309	
		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		Kitchen	2.100	2.950	2.100	1	21.210	
		sand)and jointing with grey cement slurry @ 3.3 kg		Toilet Area	1.500	2.100	2.100	2	30.240	
		per sqm including pointing in white cement mixed with pigments of matching shade complete.	at +3300 lvl.	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 Toilet Area	1.500	2.100	2.100	2	30.240	
				Kitchen	2.100	3.350	2.100	2	45.780	
								(A)	264.915	
			Deduction for	D3	0.750		2.100	10	15.750	
			Door at ALL lvl.	D2	0.900		2.100	5	9.450	
								(B) (A-B)	25.200 239.715	-
	FLOORIN	G & SKIRTING						(A-D)	239.715	sq.m
8	8.2.1.1	Providing and fixing 20mm thick mirror polished, machine cut for kitchen platforms, vanity counters		Bed Room	3.350	4.265		1	14.288	
		facias and similar locatins of required size of approved shade, colour and texture laid over 20 mm		Bed Room	3.350	4.115		1	13.785	
		thick base cement mortar 1:4 (1 cement :4 coarse sand) with joints treated with white cement, mixe*		Balcony	3.625	1.220		1	4.423	

Item No.	Item of Work	Decription	Location	Length	Breadth		Nos	Quantity	unit				
	with matching pigament-epoxy touch ups. including			L	В	H/Depth	Nos						
	rubbing, curing etx. complete at all Ibevels. Rajnagar plain white marbfe /Udaipur green marble/ Zebra	±0.00 LVL. Flooring	Balcony	3.045	1.220		1	3.715					
	block marble	Flooring	Dining Room	3.045	4.265		1	12.987					
	Area of each slab over 0.2 sqm but upto 0.5 sqm Rajnagar plain whit		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					
			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					
		+3300 LVL. Flooring	Living Room	3.570	4.265		2	30.452					
				5.190	1.740		1	9.031					
			Verandah	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					
			Bed Room	3.350	4.265		2	28.576					
		+6600 LVL. Flooring	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					
						+6600 LVL. Flooring	Dining Room	3.045	4.265		2	25.974	
											Living Room	3.570	4.265
		· ·	Verandah	5.190	1.740		1	9.031					
			veranuan	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					
			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					
				3.045		0.150	1	0.457					
		±0.00 LVL.	Dining Room	4.265		0.150	1	0.640					
		Flooring		2.405		0.150	1	0.361					
				3.570		0.150	1	0.536					
			Living Room	4.265		0.150	1	0.640					

Item No.	Item of Work	Decription	Location	Length	Breadth		Nos	Quantity	unit
item No.	itell of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	uiiit
				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	
			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	
				3.045		0.150	4	1.827	
			Dining Room	4.265		0.150	2	1.280	
				2.405		0.150	2	0.722	
		+3300 LVL.		3.570		0.150	2	1.071	
		Flooring	Living Room	4.265		0.150	2	1.280	
				2.225		0.150	2	0.668	
				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	
			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	
				3.045		0.150	4	1.827	
			Dining Room	4.265		0.150	2	1.280	
				2.405		0.150	2	0.722	
		+6600 LVL. Flooring		3.570		0.150	2	1.071	
			Living Room	4.265		0.150	2	1.280	
				2.225		0.150	2	0.668	
				5.190		0.150	1	0.779	
				1.740		0.150	2	0.522	
			Verandah	1.470		0.150	2	0.441	

	Item No.	Item of Work	Decription	Location	Length	Breadth B	Height H/Depth	Nos Nos	Quantity	unit
					2.250		0.150		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	D D1	1.200 1.050		0.150 0.150	7 16	1.260 2.520	
			Doors &	D1	0.900		0.150	5	0.675	
			Openings	D3	0.750		0.150	2	0.225	
								(C)		sq.m
							D=	(A+B)-(C)	458.984	sq.m
					2.800	0.300		1	0.840	
			MAIN ENTRANCE		2.800			1	2.716	
			STEP		2.800		0.150	2	0.840	
			BACK SIDE		2.175	0.300		3	1.958	
			STEP		2.175		0.150	4	1.305	
	D 0 0 11/0	ODIC DEL OM DUNETULO VI						(E) (D+E)	7.659 466.643	
9	5.1.1	ORK BELOW PLINTH LVL. Providing and laying in position specified grade of	F-1		0.000	0.400	0.400	6	0.000	
		reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All	F-1 F-4		2.900 3.000		0.400	0	0.000	
		work puto plinth level 1:1:2 (1 cement:1 coarse sand:2 graded stone	BEAM		9.200		0.600	1	3.860	
		aggregate 20mm nominal size)	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	Foundation	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		0.600		3.910	
			F-12 PEDESTAL		3.300		0.400		4.620	
			F-13		0.600 3.300		0.300	1	0.160 4.360	
			PEDESTAL	_	0.600		0.300		0.160	
								(A)	78.290	
								(A)	78.290	
	R.C.C WO	DRK ABOVE PLINTH LVL.						1.9	. 3.200	- 4
10	5.2.1	Reinforced cement concrete work in wall (any thickness), including attached pilasters, buttresses,	C-1		0.300	0.600	2.050	6	2.210	
		plinth and struts etc upto floor five level excluding the cost of centring, shuttering, finishing &	C-2	Column upto Ground Level	0.300	0.600	2.050	4	1.480	
		reinforcement - all work upto plinth level.	C-3		0.300	0.600	2.050	2	0.740	
		1:1:2 (1cement: 1 coarse sand : 2 graded stone aggregate 20mm nominal size)						(A)	4.430	cu.m
			C-1	Column Above	0.300		9.900		10.690	
			C-2	Tie beam	0.300	0.600	9.900	4	7.130	

	Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
	item No.	item of work	Decription	Location	L	В	H/Depth	Nos	Quantity	uiiii
			C-3		0.300	0.600	9.900	2	3.560	
								(B)	21.380	cu.m
								(A+B):	25.810	
11	5.3	Reinforced cement concrete work in beams,	TD 4		4 750	0.050	0.000		0.000	
11	5.5 +	suspended floors, roofs having slope upto 15,	TB-1		1.750		0.300	0	0.000	
	5.33B.4	landings, balconiec, shelves, chajjas, lintels, bands,	TB-2		13.680		0.300	1	1.030	
	+	plain window sills, staircasees and spiral staircases	TB-4	Tie Beam	7.010		0.300	1	0.530	
	5.33B.1	upto floor five level excluding the cost of centring,	TB-5		3.600		0.300	1	0.270	
		shuttering, finishing & reinforcement - all work upto plinth level. 1:2:4 (1cement: 2 coarse sand : 4	TB-6		8.755	0.250	0.300	1	0.660	
		graded stone aggregate 20mm nominal size)	TB-9		4.365	0.250	0.300	1	0.330	1
		(Extra for Providing M-15grade R.C.C instead of M-20 grade R.C.C.)						(A)		cu.m
		(Extra for Proiding M-25 grade R.C.C. instead of M-	PB-1		1.750		0.250	0	0.000	
		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	1
			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	1
			PB-8		6.990	0.250	0.450	0	0.000	1
			PB-8A		6.990	0.250	0.450	1	0.790	1
			PB-9		3.600	0.250	0.450	0	0.000	1
			PB-10	Plinth Beam	1.750	0.250	0.250	0	0.000	1
			PB-11	1 iiiiti Beaiii	-					
			PB-12		3.600	0.250	0.450	1	0.410)
			PB-13		8.755	0.250	0.450	1	0.980	1
			PB-14		0.505	0.250	0.250	2	0.060	1
			PB-14A		0.505	0.250	0.250	2	0.060)
			PB-15		8.755	0.250	0.550	0	0.000	1
			PB-16		2.350	0.250	0.250	0	0.000	1
			PB-17		7.990	0.250	0.550	0	0.000	1
			PB-18		3.600	0.250	0.450	0	0.000	1
			PB-19		9.260	0.250	0.550	1	1.270	
			PB-20		7.990	0.250	0.600	1	1.200	1
			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	
			U		1.500	0.250	0.150	<u> </u>	0.170	
			D1		1.350	0.250	0.150	4	0.200	
			D2		1.200	0.125	0.150	2	0.050	
							0.130		0.030	
			D3		1.050	0.125	0.150	2	0.040	1
			W	Lintel at +2100	1.500	0.250	0.150	2	0.110	
				Level						
			W1		1.500	0.250	0.150	3	0.170	'
			W2		1.500	0.250	0.150	4	0.230	
			V	-	0.000	0.425	0.450	2	0.020	
			V		0.900	0.125	0.150	2	0.030	1
			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	
			D3		1.050	0.125	0.150	14	0.280	_
			W	Lintel at	1.500	0.250	0.150	8	0.450	_
			W1	+5400 &	1.500	0.250	0.150	8	0.450	
				+8700 Level						_
			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	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
		-		L	В	H/Depth	Nos		
		FGL		2.100	0.250	0.150	2	0.160	
		D	MUMTY	1.500	0.250	0.150	1	0.060	
		FGL	ROOM	2.100	0.250	0.150	1	0.080	
							(C):	4.870	cu.m
		FFB-2		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	FI	0.505	0.250	0.250	2	0.060	
		FFB-14A	Floor beam at +3300 Lvl.	0.505	0.250	0.250	2	0.060	
		FFB-15	di 10000 EVII.	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		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	Floor beam	3.695	0.250	0.350	2	0.650	
		SFB-12	at+6600Lvl.	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			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		1.750	0.250	0.250	(D) :	0.440	
		RB-1		10.590	0.250	0.250		2.380	
		RB-3		5.980	0.250	0.450	1	0.370	
		RB-3		16.480	0.250	0.250	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	Roof beam at +9900 Lvl.	3.695	0.250	0.250	2	0.460	
		RB-9	at 19900 LVI.	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	
				3.600	0.250	0.250	2	0.450	

	Item No.	Item of Work	Decription	Location	Length	Breadth		Nos	Quantity	unit
			2001.paid.		L	В	H/Depth	Nos		
			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		1.500	0.450	0.088	10	0.591	
			W1	Chhajja AT	1.500	0.450	0.088	11	0.650	
			W2	+2100, +3600	1.500		0.088	18	1.063	
			W3	& 5800 Lvl.	1.500		0.088	4	0.236	
			V		0.900	0.300	0.088	10 (A) :	0.236	cu.m
				Slab at +3300	400	000	0.450			
				lvl	120.	000	0.150	1	18.000	
			Dark 9 Flare	Slab at +6600	216.	643	0.150	1	32.496	
			Roof & Floor Slab	lvl. Slab at +9900						
			Club	lvl.	216.	643	0.150	1	32.496	
				Mumty Slab at	3.350	6.560	0.125	1	2.747	
				+12300	3.330	0.500	0.120			
								(B) : (A+B+C) :	85.740 88.516	
								3+C)+(H):		
							(ATE	этсут(п) .	156.570	cu.m
	BRICK W									
12	6.1.14A	Brick work with bricks of class designation 100A in	TB-1	_	1.750		0.750	0	0.000	
		foundations and plinth in cement mortar 1:6 (1cement :6 coarse sand)	TB-2 TB-3	-	13.680 3.600		0.750 0.750	0	2.565 0.000	
		(Ternent to coarse sand)	TB-4	+	7.010		0.750	1	1.314	
			TB-5	Tie Beam	3.600		0.750	1	0.675	
			TB-6		8.755	0.250	0.750	1	1.642	
			TB-7		0.505		0.750	0	0.000	
			TB-8		4.870		0.750	0	0.000	
			TB-9		4.365	0.250	0.750	1	0.818	
								(A) :		cu.m
			STEPS		2.800	0.250	0.300	1	0.210	
					3.345	0.250	0.350	2	0.585	
				Main Entrance	1.270	0.250	0.150	1	0.048	
			Ramp wall	Main Entrance	1.270	0.250 0.250	0.350 0.150	2	0.533 0.048	
					3.190	0.250	0.350	2	0.558	
					1.270	0.250	0.150	1	0.048	
			BACK SIDE		2.175		0.150	1	0.098	
			STEP		2.175	0.150	0.150	1	0.049	
								(B) : (A+B) :		cu.m
								(A+D) .	3.130	Cu.iii
13	6.1.14A +	Brick work with bricks of class designation 100A in superstructure above plinth level upto three floor		A1'-A5	8.755	0.250	2.950	1	6.457	
	6.3A	cement mortar 1:6 (1cement :6 coarse sand)		B1'-B2	0.765	0.250	2.950	1	0.564	
				B3-B5	5.640	0.250	2.950	1	4.160	
				F4 F4	5.660	0.250	2.950	1	4.174	
			±0.00 LVL.	E1-E4 F1-F5	9.885	0.250	2.950	1	7.290	
			to +3300 LVL.	1'A-1'B	3.600	0.250	2.950	1	2.655	
				2B-2E	6.990		2.950	1	5.155	
				4'B-4'D	3.295		2.950	1	2.430	
				5A-5B	3.600		2.950	1	2.655	
				5D-5F	6.195		2.950	1	4.569	
				A1'-A5	8.755		2.950	1	6.457	
				B1'-B2	0.765		2.950	1	0.564	
				D'4"-D'5	1.720	0.250	2.950	1	1.269	

Item N	o. Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit	
			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		
		12200 11/1	1E-1F	2.500	0.250	2.950	1	1.844		
		to	1'A-1'B	3.600	0.250	2.950	1	2.655		
		±3300 LVL. to +6600 LVL.	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		
			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		
		+6600 LVL.	1'A-1'B	3.600	0.250	2.950	1	2.655		
		to +9900 LVL.	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		
								203.530	cu.m	
			E1-E4	5.660	0.250	2.150	1	3.042		

	14 NI -	Mana of Mank	Description	Lacation	Length	Breadth	Height	Nos	Overstitus	!4
	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
			MUMTY	F1-F4	5.660	0.250	2.150	1	3.042	
			ROOM	1E-1F	2.500	0.250	2.150	1	1.344	
				4E-4F	2.500	0.250	2.150	1	1.344	
									8.770	
				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	
			Parapet at '+9900 LVL.	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	
								(A) :	14.380 226.680	
			D		1.200	0.250	2.100	3	1.890	
			D1		1.050	0.250	2.100	4	2.205	
			W	DEDUCT FOR	1.200	0.250	1.800	2	1.080	
			W1	DOOR & WINDOW	1.200	0.250	1.500	3	1.350	
			W2	+2100 Level	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	0.500	
			D D		1.200		2.100	4	2.520	
			D1	DEDUCT FOR	1.050		2.100	12	6.615	
			W	DOOR &	1.200		1.800	8	4.320	
			W1	WINDOW	1.200		1.500	8	3.600	
			W2	+5400 &	1.200		1.200	14	5.040	
			W3	+8700 Level	1.200		0.800	4	0.960	
			V		0.600		0.600	8	0.720	
			FGL		1.800	0.250	2.100	2	1.890	
			D	DEDUCT FOR DOOR & WINDOW	1.200	0.250	2.100	1	0.630	
			FGL	MUMTY ROOM	1.800	0.250	2.100	1	0.945	
								(B)	36.330	
								(A - B)	190.350	
14		Half brick Masonry with bricks of class designation		3B-3D	3.295		3.150	1	10.379	
	+ 100A in s	100A in superstructure above plinth level upto five floor cement mortar 1:4 (1cement :4 coarse sand)		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	
				A'1-A'1'	0.505		3.150	1	1.591	
				A'5-A'6	0.505		3.150	1	1.591	
			±0.00 LVL.	B5-B6	0.505		3.150	1	1.591	
			+3300 LVL.	B1-B1'	0.505		3.150	1	1.591	

Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	un							
item No.	Relii of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	un							
			-	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								
			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								
		+3300 LVL.	B5-B6	0.505		3.150	2	3.182								
		to +6600 LVL.	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								
			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	2. 2	0.750	0.125	2.100	16 (B)	25.200 44.100								

	Item No.	Item of Work	Decription	Location	Length			Nos	Quantity	unit
					L	В	H/Depth	Nos (A-B)	510.048	Sa.m.
15		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.
16	13.13.4	WORK 20 mm cement plaster of mix ; 1:6 (1 cement : 6		1'A-1A'	1.850		4.500	1	8.325	
		coarse sand)	-1050 LVL. to +3300 LVL. External Wall	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	
				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		
			±3300 LVL. to +6600 LVL.	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	

Item No.	Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit
			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-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	
		+6600 LVL.	1J'-1K	1.850		3.600	1	6.660	
		to +9900 LVL.	K1'-K5	8.755		3.600	1	31.518	
		+9900 LVL.	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	
		+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	
			E1-E4	5.660		2.400	1	13.584	
		MUMTY	F1-F4	5.660		2.400	1	13.584	

	Item No.	Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit								
			ROOM	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									
				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									
			Parapet at TOP	J2-J1'	0.765		0.250	2	0.383									
			101	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		1.800 2.700	0.450	0.088	10 10	16.200 2.363									
			W1	-	1.800	0.450		11	17.820									
				Chhajja AT	2.700 1.800	0.450	0.088	11 18	2.599									
			W2	+2100, +3600	2.700	0.450	0.088	18	29.160 4.253									
			W3	& 5800 Lvl.	1.800	0.450		4	6.480									
					2.700 0.900	0.450	0.088	4	0.945									
		11.4 12mm thick Cement plaster of mix 1:6 (1 cement : 6 coarse sand)	V		1.800	0.450	0.088	10 10	8.100 1.575 1012.825									
17	13.11.4		±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									
					3.045		3.450	4	42.021									
				to +3300 LVL.	Dining Room	4.265		3.450	2	29.429								
					to +3300 LVL.	to +3300 LVL.	to +3300 LVL.	to +3300 LVL.	to +3300 LVL.	to +3300 LVL.	to +3300 LVL.		2.405		3.450	2	16.595	
												+3300 LVL.	+3300 LVL.	+3300 LVL.	+3300 LVL.	Living Room	3.570 4.265	
							Living Room	2.225		3.450	2	15.353						
				Guest Room	3.845	3.350	3.450	1	49.646									
			Stair Room 4.265 2.250 3.45	Stair Room			3.450	1	44.954									
				3.450	1	24.840												
				Toilet Area	1.545	2.100	3.450	1	25.151									
				Kitchen	2.100	2.950	3.450	1	34.845									
				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									

Item No.	Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit			
				3.045		3.450	4	42.021				
			Dining Room	4.265		3.450	2	29.429				
		+3300 LVL. to +6600 LVL. Internal Wall		2.405		3.450	2	16.595				
				3.570		3.450	2	24.633				
			Living Room	4.265		3.450	2	29.429				
				2.225		3.450	2	15.353				
				5.190		3.450	1	17.906				
				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				
			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		
										3.045		3.450
			Dining Room	4.265		3.450	2	29.429				
				2.405		3.450	2	16.595				
				3.570		3.450	2	24.633				
			Living Room	4.265		3.450	2	29.429				
		+6600 LVL.		2.225		3.450	2	15.353				
		to +9900 LVL.		5.190		3.450	1	17.906				
		Internal Wall		1.740		3.450	2	12.006				
		S	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				

	Item No.	Item of Work	Decription	Location	Length	Breadth	Height	Nos	Quantity	unit
	item No.	Item of work	Decription	Location	L	В	H/Depth	Nos	Quantity	uiiit
				Kitchen	2.100	3.350	3.450	2	75.210	
				Stair Room	4.265	2.250	3.450	0	0.000	
				E1-E4	5.660		2.400	1	13.584	
			MUMTY	F1-F4	5.660		2.400	1	13.584	
			ROOM	1E-1F	2.500		2.400	1	6.000	
				4E-4F	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	1.200		1.800	2	4.320	
			W1	DOOR & WINDOW	1.200		1.500	3	5.400	
			W2	+2100 Level	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	1.200		1.800	8	17.280	
			W1	DEDUCT FOR DOOR &	1.200		1.500	8	14.400	
			W2	WINDOW	1.200		1.200	14	20.160	
			W3	+5400 & +8700 Level	1.200		0.800	4	3.840	
			V V		0.600		0.600		2.880	
								8		
			FGL D	DEDUCT FOR DOOR &	1.800		2.100	1	7.560 2.520	
			FGL	WINDOW MUMTY ROOM	1.800		2.100	1	3.780	
				IXOOW					145.320	
								(A - B)		
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	
			Floor Slab at	Living Room	3.570	4.265		1	15.226	
			+3300 Lvl.	Guest Room	3.845	3.350		1	12.881	
				Stair Room	4.265			0	0.000	
					1.500			0	0.000	
				Toilet Area	1.500			1	3.150	
				Toilet Area	1.545			1	3.245	
				Kitchen	2.100	2.950		1	6.195	
				_				(A)	89.900	
				Bed Room	3.350	4.265		2	28.576	

	Item No.	Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit
				Bed Room	3.350	4.115	Пирерип	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	
			Floor Slab at	Verandah	5.190	1.740		1	9.031	
			+6600 Lvl.	T Grandan	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	
				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 3.045	1.220 4.265		2	7.430 25.974	
				Dining Room Living Room	3.570	4.265		2	30.452	
				Living 100iii	5.190	1.740		1	9.031	
			Floor Slab at +10500 Lvl.	Verandah	2.250	1.860		0	0.000	
			10000 211.	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		3.350	6.560		1	21.976	
			Waste slab	Stair	3.725	1.325		6	29.614	
			Landing		2.500	1.270		3	9.525	
							(A	(D) \+B+C+D)	61.110 500.620	
19	11.3.1 + 11.8	Cement concrete flooring 1:2:4(1 cement:2 coarse:sand:4 graded stone agregate) 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, pavemerts etc.	Roof		220.	000			220.000	sq.m

	M NI-	Mana of World	Desmination	Lasation	Length	Breadth	Height	Nos	Overstitus	!4
	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, overthe plastered wall surface to prepare the surface even and smooth complete.							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)							1222.020	sq.m
22	13.77A.1	Distempering 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)		DOOR +2100	1.200		2.100	3	7.560	
		work (natu and softwood)	D1	Level	1.050		2.100	8	17.640	
			D	DOOR +5400	1.200		2.100	8	20.160	
			D1	& +8700 Level	1.050		2.100	24	52.920	
			D	DOOR MUMTY ROOM	1.200		2.100	1	2.520	
									100.800	sq.m
			Multiplying Fa	ctor-1.2 (for each	side) as pe	r Table -1	[IS:1200]		241.920	sq.m
24	13.81.3	Applying priming coat with ready mixed zinc		_	1.200		1.800	2	4.320	
		chromate yellow primer of approved brand and		DOOR &	1.200		1.500	3	5.400	
		manufacture on steel galvanized iron/steel work.	W2 V	WINDOW	1.200 0.600		1.200 0.600	2	5.760 0.720	
			FGL	+2100 Level	1.800		2.100	1	3.780	
					1.000		20	•	000	
			W		1.200		1.800	8	17.280	
			W1	DOOR &	1.200		1.500	8	14.400	
			W2	WINDOW	1.200		1.200	14	20.160	
			W3	+5400 &	1.200		0.800	4	3.840	
			V FGL	+8700 Level	0.600 1.800		0.600 2.100	2	2.880 7.560	
			FGL	WINDOW MUMTY ROOM	1.800		2.100	1	3.780	
			Multiplying Fa	ctor-0.5 (for each	side) as pe	r Table -1	[IS:1200]	(A)	89.880 89.880 89.880	
25	13.93.1	Painting with synthetic enamel paint of approved			1.200		2.100	4	10.080	
		brand and manufacture to give an even shade two or more coats on new work	D1	DOOR +2100 Level	1.050		2.100	4	8.820	
				20701						
			D	DOOR +5400	1.200		2.100	8	20.160	
			D1	& +8700 Level	1.050		2.100	24	52.920	
			D	DOOR MUMTY ROOM	1.200		2.100	1	2.520	

	Item No.	Item of Work	Decription	Location	Length			Nos	Quantity	unit
					L	В	H/Depth	Nos	94.500	
			Multiplying Fa	ctor-1.2 (for each	side) as pe	r Table -1	[IS:1200]	(A)	226.800	
			W	1.2 (101 04011	1.200	i i abio i	1.800	2	4.320	
			W1		1.200		1.500	3	5.400	
			W2	DOOR &	1.200		1.200	4	5.760	
			V	WINDOW	0.600		0.600	2	0.720	
			FGL	+2100 Level	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	1.200		1.200	14	20.160	
			W3	DOOR +5400	1 200		0.800	4	3.840	
			V	& +8700 Level	0.600		0.600	8	2.880	
			FGL		1.800		2.100	2	7.560	
		-	FGL	DOOR	1.800		2.100	1	3.780	
				MUMTY ROOM				-	89.880	
			Multiplying Fa	ctor-0.5 (for each	side) as pe	r Table -1	[IS:1200]	(B)	89.880	
								0	0.000	
									0.000	
		-	Mult	iplying Factor-1.5	(for painting	g all over)		(C) (A+B)	0.000 316.680	
26	10.14.1	Providing and fixing T-iron frames for doors. windows and ventilators	D		1.200		2.100	4	21.600	-
		of mils steel Tee-sections, joints miltred and welded	D1	DOOR +2100 Level	1.050		2.100	4	21.000	
		with 15x3 mm lugs 10 cm long embedded in cement concerete	D2		0.900		2.100	8	40.800	
		blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded	D	DOOR +5400	1.200		2.100	8	43.200	
		stone aggregate 20 mm nominal size) or with wooden plugs and	D1	& +8700 Level	1.050		2.100	24	126.000	
		screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required including	D	DOOR MUMTY ROOM	1.200		2.100	1	5.400	
			D3		0.750		2.100	10	15.750	
		-				(40x40	x6) Per m.	@ 3.5ka	958	Kg.
27	9.21.1	Providing and fixing flush door shutters conforming to IS: 2202 (Part-I) non-decorative type.core of	D	DOOD :2400	1.200	(10/110	2.100	4	10.080	
		block board construction with frame of 1st class hard wood and well mathched commercial 3	D1	DOOR +2100 Level	1.050		2.100	4	8.820	
		plyveneering wiih vertical grains or cross bands and	D2		0.900		2.100	8	15.120	
		face veneers on both faces of shutters.35 mm thick including anodized aluminum butt hinges with necessary screws-	D		1.200		2.100	8	20.160	
		necessary screws-	D1	DOOR +5400 & +8700 Level	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	
									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		Providing and fixing oxidised M.S. sliding door bolts with nuts and screws etc. complete 300x16xmm	DOOR					59	59	EACH
32	STEEL W (10.12.1	ORK Providing and fixing glazed steel doors, windows or								
	+	ventilators of standard rolled steel sections, joints	W		1.200		1.800	2	4.320	

	Item No.	Item of Work	Decription	Location	Length L	Breadth B	Height H/Depth	Nos Nos	Quantity	unit
	10.13b	mitered and welded with 15x3 mm M.S. lugs10cm long with steel legs embedded in cement concrete	W1	DOOR & WINDOW	1.200		1.500	2	3.600	
		blocks 15x10x10cm.of (1:3:6) (1cement : 3coarse	W2	+2100 Level	1.200		1.200	4	5.760	
		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	W		1 200		1 900	8	17 200	
		panels with glazing clips and special metal-sash			1.200		1.800		17.280	
		putty of approved make complete including applying a priming coat of approved steel primer excluding	W1	DOOR +5400	1.200		1.500	8	14.400	
		the cost of metal beading and other fitting except necessary hinges or pivots as required	W2	& +8700 Level	1.200		1.200	14	20.160	
		Extra for providing and fixing steel beading of	W3		1.200		0.800	4	3.840	
		approved shape and section with screws instread of glaxing clips and met. Sash putty in steel doors,								
		windows,ventilators and composite units.								
									69.360	sq.m
33	10.12.1	Providing and fixing glazed steel doors, windows or								
	+ 10.13C	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	V	DOOR & WINDOW +2100 Level	0.600		0.600	4	1.440	
		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	V	DOOR +5400 & +8700 Level	0.600		0.600	8	2.880	
		glaxing clips and met. Sash putty in steel doors, windows, ventilators and composite units.							4.320	sq.m
34	9.48.1	Providing and fixing M.S. grills of requirement	W		1.200		1.800	4	8.640	
34	3.40.1	pattern in frames of windows etc. with M.S. flats	W1	DOOR 8	1.200		1.500	6	10.800	
		square or round bars etc all complete	W2	DOOR & WINDOW	1.200		1.200	8	11.520	
		fixed to steel windows by welding.	V	+2100 Level	0.600		0.600	4	1.440	
			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	DOOR +5400	1.200 1.200		1.200	14	20.160	
			W3 V	& +8700 Level	0.600		0.800 0.600	8	3.840 2.880	
			FGL		1.800		2.100	2	7.560	
			FGL	DOOR MUMTY ROOM	1.800		2.100	1	3.780	
							Per sq m.	@ 22ka	106.080 2333.760	
							7 7	<u> </u>		
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
		TMTC-500 10mm dia							5350	
		TMTC-500 12mm dia							6450	
		TMT-500 16mm dia							7500	
		TMT-500 20mm dia							8550	
	5.22.7F	TMT-500 25mm dia							8000	KG

	Maria Na	Hom of Work	Description	Location	Length	Breadth	Height	Nos	Ouantitu	···nit
L	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
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 railling & staircases railling including applying a priming coat of approved steel primer. MS tube (medium) 40mm nominal bore.	Hand rail	Stair					450.00	kg.
									450.00	kg.
	MISCELLA	ANEOUS 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
	SHUTTER									
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		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	Foundation	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	
			F-13		3.300	3.300	0.400	1	5.280	
			PEDESTAL		0.600	0.900	0.300	1	0.900	
40	5.9.5	Centring and shuttering including strutting, propping	TD 4		4 750		0.000	(A)	100.620	-
40	J.8.U	etc. and removal of form for lintel, beams, plinth	TB-1 TB-2		1.750 23.680		0.300	1	0.000 14.208	
		beams, griders, bressumers and contilevers.	TB-4	<u> </u>	16.480		0.300	1	9.888	
			TB-5	Tie Beam	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	

Item No	. Item of Work	Decription	Location	Length			Nos	Quantity	unit
		DD C		L 2.000	В	H/Depth	Nos	2.040	
		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	Plinth Beam	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	Lintel at +2100 Level		0.250	0.150	2	1.275	
		W1	Levei	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	Lintel at +5400 &	1.500	0.250	0.150	8	3.975	
		W1	+8700 Level	1.500	0.250		8	3.975	
		W2		1.500	0.250		14	6.675	
		W3		1.500	0.250		4	2.175	
		V		0.900	0.250		8	2.385	
		FGL		2.100	0.250	0.150	2	1.785	
		D	MUMTY ROOM	1.500	0.250	0.150	1	0.825	
		FGL	KOOW	2.100	0.250	0.150	1 (B)	1.155 50.190	
		FFB-1		1.750		0.250	(B)	1.750	
		FFB-2	+	23.680		0.500	1	23.680	
		FFB-3	_	3.295		0.350	2	4.613	
		FFB-4	-	5.980		0.350	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	

Item No.	Item of Work	Decription	Location	Length			Nos	Quantity	unit
		FFD 0		2 205	В	H/Depth	Nos	4.613	
		FFB-8	_	3.295		0.350	2		
		FFB-9	_	6.990		0.500	2	13.980	
		FFB-10		3.600		0.500	2	7.200	
		FFB-11	Floor beam	3.695		0.350	2	5.173	
		FFB-12	at +3300 Lvl.	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	
		1.520		2.550		5.500	•	1.000	
		SFB-1		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	Floor beam	3.695		0.350	2	5.173	
		SFB-12	at+6600LvI.	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	
		SFB-17	-	9.260		0.600	2	22.224	
		SFB-18	_	3.600		0.350	2	5.040	
		SFB-16		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 RB-5	_	16.480		0.450	2	14.832	
		RB-6		3.600 6.990		0.450 0.450	2	6.480 12.582	
		RB-7		3.600		0.450	2	6.480	
		RB-8	Roof beam	3.695		0.250	2	3.695	
		RB-9	at +9900 Lvl.	8.755		0.450	2	15.759	
		RB-10		0.505		0.250	4	1.010	

	Itama Na	Itom of Moule	Description	Location	Length	Breadth	Height	Nos	Overtitu	unit
	Item No.	Item of Work	Decription	Location	L	В	H/Depth	Nos	Quantity	unit
			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	C-1		0.300	0.600	2.050	6	22.140	
		etc. and removal of form for columns, pillars, piers,		Column upto						
		abutments, posts and struts	C-2	Ground Level	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	Column Above Tie beam	0.300	0.600	9.900	4	71.280	
			C-3	Tio Boain	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,	W		1.800	0.450		10	16.200	
		landings, balconies and access platform.			2.700		0.088	10	2.363	
			W1		1.800	0.450		11	17.820	
			** 1		2.700		0.088	11	2.599	
			1440	Chhajja AT	1.800	0.450		18	29.160	
			W2	+2100, +3600 & 5800 Lvl.	2.700		0.088	18	4.253	
				Q 0000 EVI.	1.800			4	6.480	
			W3		2.700		0.088	4	0.945	
					0.900	0.450	0.000	10	8.100	
			V			0.400	0.088	10	1.575	
					1.800		0.000		89.500	
				Slab at +3300				(A)		
				lvl	197.	414		1	197.414	
			Deef 0 Floor	Slab at +6600	197.	414		1	197.414	
			Roof & Floor Slab	lvl. Slab at +9900	197.	414		1	197.414	
				lvl. Mumty Slab at				•		
				+12300	3.350	6.560		1	21.976	
								(5)		
								(B)	614.220	
								(A+B)	703.720	Sqm.
43			CARRIAGE OF	MATERIALS						
		Type of materials	Lead in Km							
		Local Sand							107.730	
		Sand Stone Chips							243.230 232.436	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	