

Name of Work-Construction/Upgradation of Secondary Schools,BRC Bhavan,ALS Hostel, KGBV at various Location in THE DANG district.

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
1	Dismantalling tiled or stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	455.56	51.82	Smt	23607.33166
2	Dismantling Doors / windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachments and staking all with all laead and lift. (A) Not exceeding 3.0 Sq.mt. area	16.00	201.79	No	3228.64
3	Removing dry or oil bound distemper by a washing and scraping and sand papering the wall and ceilling surface smooth including necessary repairs to scratches complete.	5321.00	12.15	Smt	64650.17916
4	Scraping oil paint from steel and other metal surface and making the surface even (with Hand Scraping)	831.86	53.01	Smt	44096.84957
5	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1625.53	125.86	Cmt.	204589.2058
6	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	595.23	139.54	Cmt.	83058.3942
7	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(D) Soft rock not requiring Blasting	125.34	284.69	Cmt.	35683.0446
8	Filling with the available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	1930.34	137.47	Cmt.	265363.8398
9	Filling foundation and plinth with murrum or selected soil in layers of 20 cm. thickness inculding watering, ramming and consolidation etc. complete.	305.65	304.60	Cmt.	93100.99
10	Masonry work with aerated light weight concrete Blocks of size 60cm x 23cm x 23cm or any other approved size, having crushing strength @ 35 kg/sqcm Fixing with ready-mixed mortar ('Fixoblock'of M/s Ultratech cement Ltd./Rapid Fix/Lion) having tensile adhision strength >0.8 N/mm2 and compressive strength of >2N/mm2.The mortar is to be fixed in a thickness of 3mm to 5mm on the clean and leveled surface of blockmasonry using proper trowel. For all floor and lead and lift For superstructure.	597.34	4362.91	Cmt.	2606140.659
11	Brick work using common burnt clay building bricks having crushing strength not less than 35Kg./Sq.Cm. for superstructure in cement mortar 1:6(1 cement :6 fine sand) including curing etc. complete. (C) Fly Ash Bricks For all heights and all floor	103.05	4867.65	Cmt.	501611.3325
12	Half brick in common brunt clay building bricks having crushing strength not less than 35 Kg/sq.cm in cement mortar 1:4 (1 cement : 4 coarse sand) (C) Fly Ash Bricks in super structure including curing etc. complete.For all floors	7.37	719.86	Smt	5305.3682
13	Providing & laying Cement Concrete 1:4:8 (1 Cement :4 Coarse sand :8 hand broken stone aggregates of 40mm nominal size) in plinth and curing complete including cost of formwork. (A) Foundation and Plinth - At plinth level	105.04	2781.12	Cmt.	292134.407
14	Providing and laying cement concrete 1:5:10 (1- Cement : 5- Coarse sand : 10- hand broken stone aggregates 40 mm nominal size) and curing complete including cost of formwork in (A) Foundation and Plinth	35.00	2618.33	Cmt.	91641.55
15	Providing & laying Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 graded stone aggregate 20 mm nominal size) & curing complete including cost of form work (A) Foundation and Plinth - Below Tie beam, Plinth protection & surface leveling work.	36.50	3824.10	Cmt.	139579.65
16	Providing and laying cement concrete flooring 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement. (A) 40mm thick.	106.81	299.26	Smt	31963.9606

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17	Providing and laying controlled cement concrete M.150 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete (Cement Level 290 Kg)	150.55	4299.70	Cmt.	647319.835
18	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Coping Vertical and horizontal for all floor (Cement Level 360 Kg)	53.68	6507.62	Cmt.	349329.0416
19	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and Excluding the cost of reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.(Cement Level 380 Kg)	525.56	4506.82	Cmt.	2368604.319
20	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and Excluding the cost of reinforcement for reinforced concrete work in Plinth Beams. (Cement Level 380 Kg)	55.25	6108.77	Cmt.	337509.5425
21	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Lintels all floor (Cement Level 360 Kg)	21.15	7812.08	Cmt.	165225.492
22	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Chajja all floor (Cement Level 360 Kg)	4.67	7451.79	Cmt.	34799.8593
23	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Beams all floor (Cement Level 360 Kg)	176.77	6720.35	Cmt.	1187956.27
24	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts all floor (Cement Level 380 Kg)	25.35	7196.43	Cmt.	182429.5005
25	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts all floor (Cement Level 360 Kg)	128.59	7049.42	Cmt.	906484.9178
26	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (C) Slab all floor (Cement Level 360 Kg)	228.83	7088.32	Cmt.	1622020.266
27	Providing and laying controlled cement concrete M.200 and curing complete including the cost of formwork and excluding the cost of reinforcement for reinforced concrete work in (E) Staircases including landing all floor (Cement Level 360 Kg)	42.44	7611.23	Cmt.	323020.6012
28	Providing I.S.I. T.M.T Bars Fe.500D steel reinforcement (ISI mark) Confirmed to IS-1786 for R.C.C.work including Cutting, bending, binding and placing in position etc. complete.For all floors	131937.81	77.29	Kg.	10197473.56
29	Providing 10mm thick cement plaster in single coat on on brick/concrete walls & Ceiling & Soffit of stair interior plastering in cement mortar 1:4(1 cement 4 sand) watering, curing etc. complete.For all floors	3114.43	168.27	Smt	524065.1361
30	Providing 15mm thick cement plaster in single coat on rough or fair side of single or half brick wall for interior plastering in cement mortar 1:4(1 cement 4 sand) watering, curing etc. complete.For all floors	6500.00	238.72	Smt	1551680
31	20mm thick sand faced cement plaster on walls above ground level consisting of 12mm thick backing coat of cement mortar 1:3(1 cement 3 sand) and 8mm thick finishing coat of cement mortar 1:1(1 cement 1 sand) watering, curing etc.complete for any Height.	1978.20	365.95	Smt	723922.29

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32	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete. The rate shall be including of providing two coats of primer of approved brand and manufacturer on new wall surfaces to give and even shade including throughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	7547.60	122.14	Smt	921864.1144
33	Distempering with dry distemper of approved brand and manufacture (two coats) and of required shade on wall surfaces to give an even shade, over and including applying one coats of Birla (White Cement based) or Asian (acrylic lapy) or equivalent and a priming coat of whitening after thoroughly brooming the surface free from mortar dropping and other foreign matter and sand paper smooth. The rate shall be including scraping and old deteriorated of existing paint.	19591.96	95.66	Smt	1874166.683
34	Painting two coats (excluding priming coat) on new steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	1785.45	69.15	Smt	123464.0871
35	Providing and laying 25mm thick polished Kota stone flooring/staircase treads (two pieces with three groves in front of steps) over 20mm (average) thick base of cement mortar 1:6 (1 cement 6 coarse sand) laid over and jointed with grey cement slurry including curing, rubbing, and polishing etc. complete.	457.06	1106.41	Smt	505690.2226
36	Providing & fixing average 25mm thick Double polished Kota stones for shelves in cup board, seating plat form, including curing, rubbing, polishing etc. complete. (As directed by Engineer in charge)	53.33	797.18	Smt	42514.40658
37	Providing and laying 18 mm thick mirror polished black granite stone machine cut in single piece (Max. available) in sill and jambs laid over 10 mm thick cemen mortar 1 : 3 (1 cement : 3 coarse sand) and jointed with grey cement slurry with matching pigment incl. rubbing and polishing half rounding edge both side etc. complete colour and shed as approved by architect engineer in charge. (As directed by Engineer in charge)	465.56	2061.28	Smt	959649.5168
38	providing & laying cement water proofing of average 60mm thick for terrace for all floors using first layer cement mortar (1:3) over an exsisting surface second layer of arranging brick bats according to slop adding suitable chemical to make water tieght & again third layer of cement mortar 1:3 on above including adding water proffing compound and finishing top with net cement slury using cement @ 2.75 kg/sq mt. making any patterns and design on the top etc. complete as directed.(As directed by Engineer in charge)	625.57	354.56	Smt	221802.0992
39	Providing & Laying Broken China Mosaic flooring for plain & curve surface 12mm to 20mm of broken piece of ceramic tiles or Glazed tiles (one or more colour as directed by Engg. In charge) to be laid over cement mortar bedding of CM 1:3 to plain or and slopes and to be tempered to bring mortar cream up to and colour pigment including rounding of junctions and extending them pu to 15cms along the wall and curing with bends any patterns of designs as per deawing or directions including cleaning with water and oxilic acid using 1 kg / 1 bag of water proofing materials.	853.20	779.70	Smt	665241.2096
40	Providing cement vata (10 cm X 10 cm size) quartar round in cement mortar 1:1 including neat cement finishing, watering etc. complete Respectely plaster acitivity shall be commenced only after completion of vata work.	300.25	24.28	Rmt	7290.07

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41	Providing and fixing FRP frame size 100x50 mm and 28mm thick FRP depress panel shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected fire retardant grade polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & finitues. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & alluminium fixtures & fastenings & fastener sleeve.	116.71	2377.76	Smt	277508.3696
42	Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 63.50 x 38.10 x 1.95 mm(of Jindal Section no:4605,@ Wt 1.094 Kg / Rmt), horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm (of Jindal Section no: 8687 @ wt.of 0.695 Kg/mt), vertical member of size 61.85 mm x 31.75mm x 1.30 mm (of Jindal Section no:8758 @ wt.of 0.0.659 Kg/mt) with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm (of Jindal Section no:8949 @ wt.of 0.456Kg/mt), vertical member of size 40mm x 18mm x 1.29mm (of Jindal Section no:8947 @ wt.of 0.456Kg/mt/ Section 8948, @ Wt. 0.457 Kg/mt) with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.	265.67	1713.70	Smt	455278.679
43	Steel work, M.S Grill, welded in built up sections framed work including cutting, hoisting, fixing in position and applying a priming coat of read lead paint. (A)In beams and joists, channels angles Tees, flats, with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins conneted to common rafters and the like	12304.05	91.08	Kg.	1120653.011
44	Providing & fixing G.I rain water Spout of 65mm dia and 60cm length.	24.00	717.46	No	17219.04
45	Painting of logo on front side wall as directed by Engineer in charge and as per approved drawing.	29.35	429.65	Smt	12610.2275
46	Providing and laying white glazed tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement.	179.14	964.48	Smt	172776.9472
47	Providing and laying white glazed tiles 6mm thick in skirting, riser of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3 coarse sand) and jointed with white cement slurry.	781.52	1127.48	Smt	881148.1696
48	Providing and fixing Chicken mesh jali (22 gauge) 15cm wide at the junction of 2 different surfaces of different material component at the time of plastering to prevent cracking in plaster surface as and where directed at all floors with all leads and lifts etc.complete.	2226.70	38.77	Rmt	86329.159
49	Providing & Fixing Green board(2400mm x 1200mm) with soft board(1200mm x 1200mm) on wall as per the drawing & design etc. complete.	6.00	10352.50	No	62115

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50	Providing & laying Sandwich platform of maximum 700mm width : a) Sandwich type platform of top stone as 18 mm thick Granite of approved shade and sample and bottom stone as 25 mm thick single side polished kota stone with 25 mm thick screed of cement mortar 1:4 in between two stones. The stone shall be fixed by chasing in to the wall surface and providing necessary MS supports of 50x50x6mm Angle or "T" (hot dip galvanised) and embedded in between the two stones etc as per the drawing / specification and / or as instructed of EIC complete and b) 75 mm raised platform (Otli) at floor level with polished kota laid on 50mm screed of (1:2:4) and skirting of kota stone as per design and approved sample. The rate includes rounding, champhering and mirror polishing of edges, facias of granite, MS supports, all material labour and wastage, as per drawing, including necessary bonding adhesive (if required) of Araldite or equivalent. Rate shall be also inclusive of making holes & cutouts for SS sink, Oval wash basin, Piller tap / Bib tap etc. as directed by engineer in charge. (Only finished single side granite work shall be measured & paid for). (As directed by Engineer in charge& approved drawing and design etc.)	30.68	4256.12	Smt	130577.7616
51	Providing and fixing in position collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of T_rin 40x 40 x 6 mm with 38mm dia, steel pulleys complete with bolts,nuts, locking arrangements,stoppers handles including applying a priming coat of red lead paint.	17.50	1127.78	Smt	19736.15
52	Providing and fixing 0.90 meter high fencing with 1.20 meter long M.S. Angle posts 40 mm. X 40 mm. X 6 mm. And oil painting 3 coats fixed at 2.5 mt. C/c with Three horizontal lines and two diagonals of galvanised steel barbed wire weighing 9.38 Kg. Per 100 meter, strained and fixed to posts with G.I. staples, including fixing posts in compound wall	350.00	165.09	Rmt	57781.5
53	Drilling bore hole for 165mm dia M.S.ERW casing pipe in over burden strata including fixing of bore plug in hard / soft rock etc.	150.00	390.87	Rmt	58630.5
54	Providing & fixing 150mm dia M.S. PVC casing pipe Class "I.S.I." in bore hole including with providng & laying of gravel(4mm to6mm),cement sealing & necessary fittings etc.complete.	50.00	538.33	Rmt	26916.5
55	Supplying submersible pump set for bore of 150 mm. dia. or more having Single phase motor capacity not more than 1.5 H.P discharge capacity having (a) (20 Stage) head 110 mtrs. suitable for 32 mm dia. delivery pipe. Cat.II	2.00	10567.63	No	21135.26
56	Brick work using common burnt clay building bricks having crushing strength not less than 35Kg./Sq.Cm. for superstructure in cement mortar 1:6(1 cement :6 fine sand) including curing etc. complete. (B) Conventional	104.50	4575.57	Cmt.	478147.065
57	Providing and laying controlled cement concrete M.250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in (B) Walls	38.00	4771.65	Cmt.	181322.7
58	Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in (a) Foundations, footings Bases of columns and the like and Mass concrete work in footing. (Cement Level 360 Kg)	62.50	4233.80	Cmt.	264612.5
59	Providing and laying controlled cement concrete M.200 for curing complete including cost of formwork and excluding cost of reinforcement for reinforced concrete work in Plinth Beams. (Cement Level 360 Kg)	30.00	6077.38	Cmt.	182321.4
60	Construction of a soak well of as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge.(The internal In-to-in dimension shall be considered for calculation)	24.69	6029.64	Cmt.	148852.5168

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
61	Construction of a septic tank as per the approved drawing & design etc.in all sort of soil complete as directed and approved by engineer incharge. (The internal In-to-in dimension shall be considered for calculation)	36.98	10140.48	Cmt.	374994.9504
62	RCC GSR (description of item for turnkey tender) Preparing structural design of RCC Under Ground / Partially under ground / above high ground level Reservoir of required capacity as per relevant I.S.s and constructing the same, including excavation in all types of soil strata (including rock) including shoring strutting if required, for loose soil / to protect from collapse due to near by traffic load, casting 100 mm thick P.C.C. leveling course in M-10, Refilling the pit with proper soil and disposing of the surplus stuff within a lead of 50 meters. Including cement plaster in CM 1:2 with approved water proofing compound to inside water touching surface to container. Including all types of labour and material charges of lowering, laying, erecting / hosting and jointing of pipe assembly to inlet, outlet overflow, washout and bye pass arrangement as per hydraulic design. Providing and fixing accessories like MS / GI Ladder, CI Manhole frame and cover, water level indicator, adequate cowl type ventilators or lantern type ventilator with stainless steel jail. B.B. Masonry chambers for valves. Providing and applying three coats of cement paint / snowcem to the out side face of structure. It also includes satisfactory water tightness test as per relevant I.S. code and painting name of scheme and capacity on the tank as per direction of engineer in charge. List of Indian Standards for Design of GSR / SUMP:-The structural design of GSR shall be in accordance with provisions relevant I.Ss. (1) I.S. 3370 part I & II 2009 or latest revised (1.1) I.S. 3370 part III & IV 1965 or latest revised (2) I.S. 456 – 2000 or latest revised. (3) I.S. 1893 – 2000 – 1984 or latest revised. (4) I.S. 875, Part – 1 to 3, 1987 or latest revised. General Specifications:- (1) Water depth in container shall be adopted as per data of tender. If water depth is not specified the suitable water depth / acceptable to field engineer in accordance with hydraulic requirement shall be adopted for capacity. (2) Shape of container (in plan) specified by in data shall be adopted in absence similar shape shall be adopted. (2) Size shall be fixed as per	40000.00	6.32	liter	252800
63	Providing and fixing washbasin with single hole for pillar tap with M.S. brackets painted white including sutting holes and making good the same but excluding fittings.(A) Vitreous China:(ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour including CP Brass west , MI Fisher union and Pillat tap	7.00	1930.02	No	13510.14
64	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	196.00	186.83	No	36618.68
65	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line.	48.00	3175.32	No	152415.36
66	Providing and fixing water closet squatting pan (Indian type W.C pan) size 580 mm (earthwork, bed concrte, foot rests,Flush Cock and trap to be measured and including paid) (A) Vitreous China (I) Long pattern white as directed and approved by engineer incharge.	39.00	1493.32	No	58239.48
67	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	16000.00	3.95	liter	63200
68	Providing & fixing UPVC ball valve(A) 40mm dia.	6.00	1687.71	No	10126.26

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69	Providing & fixing UPVC ball valve(A) 25mm dia.	27.00	650.84	No	17572.68
70	Providing & fixing UPVC ball valve(A) 15mm dia.	8.00	440.56	No	3524.48
71	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps.(B) 150mm x 100mm size P or R type	46.00	1292.19	No	59440.74
72	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 75 mm diameter with jali of the following nominal diameter of self cleansing design with C.I. screed down or hinged grating including the cost of cutting and making good the walls.	64.00	600.23	No	38414.72
73	Providing & erecting open well horizontal mono block pump set with cast iron body, compete for three phase submersible motor having (A) For 1.5 HP 3 phase open well horizontal mono block pump set suitable for 190 LPM @ 20 mtr head suitable for 40 mm dia delivery pipe.	1.00	11332.20	No	11332.2
74	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	176.96	148.12	Rmt	26211.3152
75	Providing laying and jointing in true line and level 25mm dia.U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	678.18	91.84	Rmt	62284.0512
76	Providing laying and jointing in true line and level 15mm dia.U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	463.20	72.65	Rmt	33651.48
77	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 160 mm dia	427.64	580.75	Rmt	248351.93
78	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(G) 110 mm dia	510.31	275.73	Rmt	140707.7763
79	Providing & fixing to wall ceiling and floor 6.0 kg F/cm2 working pressure PVC pipes of the following out side dia. Special density complete with special flange compression type fitting,wall clips etc. including making good the wall ceiling and floor.(F) 75 mm dia	116.30	138.65	Rmt	16124.995
80	Providing and fixing chromium plated brass half trun flush cock of approved quality including fixing in pipe line etc. complete..[ii] 25 mm	21.00	263.77	No	5539.17
81	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement	1654.73	1120.36	Smt	1853893.303

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82	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete Cat. III	407.00	350.47	Pt.	142641.29
83	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	143.00	489.85	Pt.	70048.55
84	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	184.00	364.61	Pt.	67088.24
85	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.(e) in existing pipe erected flushed on wall/ceiling complete,Cat. III	14.00	499.95	Pt.	6999.3
86	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessoriesCat. III	45.00	241.39	Pt.	10862.55
87	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed.(e) in existing pipe erected flushed on wall/ceiling complete Cat. III	12.00	449.45	Pt.	5393.4
88	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(10) 6/16Amp. Universal socket	118.00	190.89	No	22525.02

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
89	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(7) Blank Plate Single,Cat.III	116.00	24.24	No	2811.84
90	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.(8) Computer RJ-45 socket ,Cat.III	2.00	153.52	No	307.04
91	Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.) of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (a) 20 mm	1685.61	23.23	Rmt	39156.7203
92	Providing and erecting ISI mark embossed Medium class RIGID PVC PIPES (F.R.L.S.) of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	72.76	32.32	Rmt	2351.6032
93	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	47.76	20.20	Rmt	964.752
94	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe.(a) 2 wire 1.5 sq. mm	1604.85	44.44	Rmt	71319.534
95	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe.(b) 2 wire 2.5 sq. mm	1909.23	59.59	Rmt	113771.0157
96	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(a) 2 wire 4 sq. mm	911.52	82.82	Rmt	75492.0864
97	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size,(E) in existing pipe,(h) 4 wire 6 sq. mm	541.19	229.27	Rmt	124078.6313
98	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(f) One wire 10.00 sq. mm	26.54	87.87	Rmt	2332.0698
99	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed.(e) 1.50 Sq.mm 3 core round PVC sheathed	210.87	44.44	Rmt	9371.0628
100	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction.[C] CAT - 6	922.97	45.45	Rmt	41948.9865
101	Decorative call bell Ting-tong box type 250 volts complete erected	3.00	68.68	No	206.04

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
102	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.),(A) Tube Light with integral driver,(ii) 20 Watts, Surge - 2KV,IP-20, conventional 4 feet,Cat-III	308.00	295.93	No	91146.44
103	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5(A) LED Lamps integral type, with PC diffuser suitable LAMP holder,(ii) 8 watts ,Cat-III	74.00	112.11	No	8296.14
104	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.,(ii) 48 to 60 Watts,Cat-III	12.00	4997.48	No	59969.76
105	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	3.00	6173.12	No	18519.36
106	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing..(1) 15 A -100 A , CT Ratio 1/100	3.00	4687.41	No	14062.23
107	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. capacity	13.00	1961.42	No	25498.46
108	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark , Cat.III	71.00	112.11	No	7959.81

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
109	Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	47.00	278.76	No	13101.72
110	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door,(ii)6 way	15.00	2913.85	No	43707.75
111	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door,(ii)8 way (IP-43)	1.00	1152.41	No	1152.41
112	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door,(ii)12 way (IP-43)	3.00	1492.78	No	4478.34
113	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.,(ii) 40Amps. FP , Cat. III	5.00	2637.11	No	13185.55
114	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	13.00	26.26	No	341.38
115	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistane of installation.[b] For Electrical installation up to 11 KV located in other than normal soil i.e. Soft Rock, Marshy Soil etc. -Length of Pipe : 2 mtr -Back filling Compound :1 no. Bag of 25 Kg	8.00	5760.03	No	46080.24
116	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	11.80	794.87	Kg.	9379.466

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
117	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S. sheet for internal partitions with necessary accessories, supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket, heavy duty end terminal connection, danger notice board, necessary ventilation, earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory, (i) with 350mm depth	5.00	14902.55	No	74512.75
118	Providing, erecting, fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles, square, round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	101.75	77.77	Kg.	7913.0975
119	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (B) 2 core 6 Sq. mm	88.48	90.90	Rmt	8042.832
120	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (B) 3 1/2 core 35 Sq. mm (16 Sq. mm 1/2 core)	73.73	217.15	Rmt	16010.4695
121	Providing and erecting XLPE (IS:7098) (I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	3.00	372.69	Rmt	1118.07
122	Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	29.49	46.46	Rmt	1370.1054
123	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene (conforming to IS 14930 II) with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A) 50 mm outer dia	29.49	62.62	Rmt	1846.6638
124	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 2 to 4 core 6 Sq. mm	6.00	38.38	No	230.28
125	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with, canopy & 30 cm. down rod erected with earthing. (Make shall be approved by Engineer in charge)	175.00	1948.29	No	340950.75
126	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	174.72	108.07	Rmt	18881.9904

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
127	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	133.00	108.07	No	14373.31
128	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	133.00	18.18	No	2417.94
129	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM.[A] 305 mm dia 900 RPM,Cat.II	3.00	2054.34	No	6163.02
130	Providing suitable M.S. louver shutter of the Exhaust fan.	3.00	368.65	No	1105.95
131	Supply of approved make FRP Pole having following specifications: FRP Light Pole made by CNC filament winding machine using thermoset resin polyester/epoxy resin system) having minimum 62% glass content. The pole should be in one piece and tapered round in shape, having smooth finish and should be totally free from corrosion as well as non conductive & shock proof Pole should be provided with FRP Anchor Base and it should be heavy duty, or MS Material duly painted with Epoxy paint. Pole should be flame retardant as per IS 6746. Resin used shall be UV resistance and pigmented. A highly weather resistant polyurethane coating shall be applied to the pole after applying suitable primer system that ensures proper adhesion of the paint. Minimum coating thickness shall be 80 to 100 micron. Deflection of the pole shall not exceed more than 10% of the length of pole for the given load“ Pole should be generally made as per the dimensional data, performance criteria and some interchangeability features of poles as per standard ANSI C 136.20 latest version or ASTM D 4923/01 including cable termination box with necessary accessories . The size of pole and type of installation with foundation as per manufacturer details and site requirement are as below .(3) Suitable for direct grouting & Single arm Bracket. [D] Overall length of 5 Mtr. Average Thickness: 7mm. Top/ Bottom OD Dia: 90/145 mm ± 3mm approx. approx. Weight of Pole 25 kg approx.	23.00	8252.71	Each	189812.33
132	Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel	3.00	46648.87	No	139946.61
133	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [C] 50 Ltr / Hr with 150 psi 2 nos booster pump	3.00	24394.53	No	73183.59
134	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	6.00	1558.43	No	9350.58
135	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	6.00	1275.63	No	7653.78
136	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	2.00	274.72	No	549.44

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
137	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	6.00	43.43	No	260.58
138	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	6.00	317.14	No	1902.84
139	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [A] For 1.5 HP 3 phase open well horizontal mono block pump set suitable for 190 LPM @ 20 mtr head suitable for 40 mm dia delivery pipe	3.00	10284.83	No	30854.49
140	Supplying & erecting approved make motor control cubical panel (Direct - on - line) made from 16 G. CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking, arrangement consisting of suitable size of ON- OFF isolator (AC - 3/23duty) main fuses, single phasing preventer, indicating lamps for R- Y - B phases, overload relay, Automatic water level controller, Ammeter, Voltmeter each with two way selector switch incoming, wires duly socket crimped, main contactor & overload relay, start - stop push buttons, to be erected on angle iron frame grouted on wall as directed. The isolator, overload relay & contactors will be of L & T, Siemens or BCH make only. (A) DOL up to 5.0 H.P.	1.00	7722.46	No	7722.46
141	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (c) 3 Core x 4 Sq. mm	255.00	146.45	Rmt	37344.75
142	SUPPLYING, INSTALING, TESTING AND COMMISSIONING OF Of your premises of pipes and as per spec G.I. Pipe fittings such as Bends, Tees, reducers, rubber insertions asnd galvanised nuts and bolts including Flow Directions Marketing, One coat of Primer, one coat of Signal Red color 100 MM	60.00	2938.95	Rmt	176337
143	SUPPLYING, INSTALING, TESTING AND COMMISSIONING OF Of your premises of pipes and as per spec G.I. Pipe fittings such as Bends, Tees, reducers, rubber insertions asnd galvanised nuts and bolts including Flow Directions Marketing, One coat of Primer, one coat of Signal Red color 80 MM	30.00	1960.36	Rmt	58810.8
144	Providing & Fixing Of SS, Fire Hydrant Single Headed Valve Isi Mark, With 80 Mm N.B. Flanged Inlet, Ss 316 Orifice Plate, Ss Spindle Controlled 63 Mm Dia Female Instantaneous Outlet Type. Ss Coupling, Blank Cap, Chain, Twist Release Type Lug & All Accessories Conforming To Is:5290 Including Fixing With Anchor Fastner And Flanged Tapping From Wet Riser, Complete As Required	4.00	7109.08	No	28436.32
145	Providing and fixing 63mm Parole fire hose of approved grand conforming to IS 636 type B having crushing pressure of 37.20 kg/cm 2 of ISI marked of 15 mtr length fitting with necessary S.S 63mm delivery hose coupling as IS 903 with ISI mark bided with GI wire etc complete directed.	7.00	8886.34	No	62204.38
146	Providing & Fixing Of Of 63 Mm Dia Instantaneous Pattern Short Branch Pipe, Made From Ss , Isi Mark, 20 Mm Dia Nozzle Conforming To Is 903, Suitable For Inter Connection To Hose Pipe Coupling Complete As Required.	7.00	2346.00	No	16422
147	Providing & Fixing Of Swinging Type Isi Mark, First Aid Hose Reel In Red Colour Drum With 30 Mtrs Long 25 Mm Dia Heavy Duty Rubber Water Hose, 25 Mm Dia Globe Valve Stop Cock, Terminating With Ss Coupling & Nozzle Of 8Mm Outlet With Shut Off Valve Confirming To Is 8090 - 1976 Complete With Ms Socket For Tap-Off, Drum And Brackets (Including Painting) For Fixing On Wall With Anchor Fastner, Bolts & Nuts Conforming To Is:884-1969 Complete As Required	7.00	7701.50	No	53910.5

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
148	Providing & Fixing Of Lockable Cabinet, Made Out Of Ms Sheet Of 20 Gauge Thickness Having Central Opening And 4 Mm Thick Glazed Glass Doors (Twonos.) To Accommodate 1 Nos Of Hose Pipe (15Mtr) And 1 No. Gm / Ss Branch Pipe Etc Suitably Marked On The Outside With The Letters "Fire Hose" Including Necessary Locking Arrangement And Shall Be Painted With One Coat Of Primer And Two Coats Of Synthetic Enamel Paint Of Approved Shade.	7.00	2843.63	No	19905.41
149	Providing & Fixing Of Hand Lever Operated Butterfly Valve (100 Mm Dia) With Ci Body And Ss Disc With Epdm Lining With All Required Accessories Like Flange, Teflon Gaskate, Gi Nut Bolts Etc.	2.00	5687.26	No	11374.52
150	Providing & Fixing Of Hand Lever Operated Butterfly Valve (80 Mm Dia) With Ci Body And Ss Disc With Epdm Lining With All Required Accessories Like Flange, Teflon Gaskate, Gi Nut Bolts Etc.	2.00	4976.35	No	9952.7
151	Site Of Ci Non-Return Valves (100 Mm Dia) As Per Is:5312 (Part 1) 1984, Wafer Type With Required Flange, Nuts, Bolts And Gaskets Etc Complete.	2.00	3585.50	No	7171
152	Site Of Gm 25Mm Dia Air Vent Valves With 25 Mm Dia. Ball Valve, Nipple And Other Required Accessories.	12.00	2979.50	No	35754
153	Providing & Fixing Of Fire Proof 3.5C X 50 Sq Mm Cable As Required Isi Marked All Required Fitting Accessories.	30.00	278.44	Rmt	8353.2
154	Providing ABC Type Fire Extinguisher 6 Kg Isi Marked All Required Fitting Accessories.(M.R.)	4.00	4242.00	No	16968
155	Providing Co2 Type Fire Extinguisher 4.5 Kg Isi Marked All Required Fitting Accessories.(M.R.)	14.00	7878.00	No	110292
156	Providing & Fixing Of Presure Meter Switch Isi Marked.(Boq)	1.00	6516.65	No	6516.65
157	Providing & Laying unscreen Gravel and sand mixture for Cushion layer in sub base work below foundation concrete etc. comp As Per approval of engineer incharge.	5.00	383.99	Cmt.	1919.95
158	Providing and fixing door having side hung double shutter having factory fabricated std. Extruded aluminium colour anodized hollow section {Section 63.50 x 38 mm x 2.50 mm thick } for door frame, hollow portion of door frame shall be filled with non teakwood wood, with factory made 35 mm. Thick flush door both side pre laminated with 6 Lever Mortice lock {Godrej or Equivalent), SS Aldrop, SS Handle size 15 Cm Long, Tower Bolt size 20 cm etc. as per detail colour & pattern approved by this office including necessary anodized alluminum fixtures and fastenings.	40.88	4912.67	Smt	200829.9496
159	Providing and fixing door having side hung single shutter having factory fabricated std. Extruded aluminium colour anodized hollow section {Section 63.50 x 38 mm x 2.50 mm thick } for door frame, hollow portion of door frame shall be filled with non teakwood wood, with factory made 35 mm. Thick flush door both side pre laminated with 6 Lever Mortice lock {Godrej or Equivalent), SS Aldrop, SS Handle size 15 Cm Long, Tower Bolt size 20 cm etc. as per detail colour & pattern approved by this office including necessary anodized alluminum fixtures and fastenings.(As directed by Engineer in charge& approved drawing and design etc.)	40.26	4665.20	Smt	187820.952
160	Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 95mm x 24mm x 1.17mm (of Jindal Section no:2459 @ wt.of 0.738 Kg/mt), horizontal Three track member size 92mm x 31.75mm x 1.30mm (of Jindal Section no:8688,@ Wt.1.07 Kg/mt), vertical member of size 92mm x 31.75mm x 1.50mm (of Jindal Section no:8933,@ Wt. 1.06 Kg/mt) with sliding shutters of horizontal member size 40 mmx18mm x1.29mm (of Jindal Section no:8947@ wt.of 0.456 Kg/mt), vertical member of size 40mm x 18mm x 1.29 mm (of Jindal Section no:8949 @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc.	55.56	1591.87	Smt	88444.2972

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
161	Providing and fixing standard extruded of aluminium section of size 63.50 x 38.10 x 1.95 mm (of Jindal Section no:4605, @ Wt 1.094Kg / Rmt with colour Powder Coated aluminium frame with 5 mm thick transparent bronze colour tinted float glass with colour anodized aluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for window	31.52	1290.81	Smt	40686.3312
162	Supply of gravel having size 4mm to 6mm as directed on site.	3.50	2049.29	Cmt.	7172.515
163	Supplying and erecting approved make motor control cubical panel (star delta) made from 16 G. CRCA sheet duty epoxy powder paint inside and outside with hinged doors and locking with suitable size of ON-OFF isolator (AC 3/23 duty) main fuses. Digital volt and current meter (in a single unit) with micro controller based control unit and current sensing single phasing preventor overload protection, over voltage (Programmable) protection and under voltage (Programmable) protection, prod less dry run protection programming facility for setting of all parameter like overload current high voltage limit, low voltage limit, dry run limit with digital indication on seven segment LED display for any fault like overload, high voltage, low voltage, dry running single crimped, electronic star delta timer feather touch start / stop push buttons to be erected on angle iron frame. Grouted on the wall (the contractors will be of L&T, Siemens, BCH make only) (D) S/D upto 15 H.P.	1.00	17220.50	No	17220.5
164	Providing and supplying ISI make G.I. pipe with coupling of following class 'B' including all taxes insurance, transportation, freight charges, octroi, inspection charges, loading, unloading conveyance to departmental stores stacking etc. complete 65mm dia. IS 1239 / 1990 65 mm dia.	160.00	567.62	Rmt	90819.2
165	NETLON Mosquito Net: Providing and fixing Providing, making and fixing the Netlon mosquito net on window with solid wooden frame and velcro fabric with stitching, etc. complete as per reference image, drawing, specifications and as directed by the Engineer - in - Charge including all necessary material, labour, wastage, necessary tools, tackles, consumable hardware & required SS hardware (if necessary), adhesives, for all floors, all heights, all levels and all places within the campus. The rate shall be inclusive of all necessary loading - unloading, packing with protection, transportation, all applicable taxes etc. complete to the satisfaction of EIC.	277.57	901.93	Smt	250348.7101
166	Providing & laying M.S. Medium grade "B" class pipe size 150mm dia IS : 1239 in position with all fitting including flanges, cutting, beveling welding, bending, threading, erection and installation, with fabrication of all types of support with erection and installation of upper ground pipeline to required level of elevation including hook and piping with equipment including.	35.00	1742.50	Rmt	60987.5
167	Providing & laying M.S. Medium grade "B" class pipe size 50mm dia IS : 1239 in position with all fitting including flanges, cutting, beveling welding, bending, threading, erection and installation, with fabrication of all types of support with erection and installation of upper ground pipeline to required level of elevation including hook and piping with equipment including.	20.00	574.94	Rmt	11498.8
168	Providing & laying M.S. Medium grade "B" class pipe size 25mm dia IS : 1239 in position with all fitting including flanges, cutting, beveling welding, bending, threading, erection and installation, with fabrication of all types of support with erection and installation of upper ground pipeline to required level of elevation including hook and piping with equipment including.	80.00	290.38	Rmt	23230.4

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
169	Providing and fixing 150 diameter CI sluice/butter fly valve ISI marked with gun metal / SS working parts with stainless steel; spindle with necessary jointing materials filling etc complete as directed.	2.00	9408.15	No	18816.3
170	Providing and fixing 150mm diameter non return valve with gunmetal working parts as per IS including.	2.00	13821.85	No	27643.7
171	Mild steel box hose cabinet of 18SWG of suitable size with looking arrangement and 3mm thick glass panel to accommodate 1 Nos of hose pipe (15mtr) and 1 No. GM / SS branch pipe etc painting red colors etc as directed.	7.00	2787.60	No	19513.2
172	Providing and erecting connection of siemens connection with necessary fitting at our required place of the fire hydrant system as directed.	1.00	15099.50	No	15099.5
173	Supplying installing, Testing & commissioning of SMB pump capacity 97M3/HR. at 70 mtr. Head with 40 HP	1.00	162610.00	No	162610
174	Supplying installation, Testing & Commissioning of control panel for above pump with Flanges nuts bolts gaskets etc.	1.00	47888.85	No	47888.85
175	Wrapping and coating of 150 mm / 100mm MS pipe	25.00	511.06	Rmt	12776.5
176	Supplying installation, Testing & Commissioning of On/Off switch for all Hydrant Post.	1.00	551.71	No	551.71
177	Design, supply & installation of safety signage made of zinc base glow in the dark rigid sheet with high luminous with pasted on 3 mm thick on rigid PVC foam sheet. Such as EXIT EMERGENCY EXIT. Do not use lift etc.	6.75	4.07	Smt	27.4725
178	3C x 2.5 sqmm cable with PVC pipe wiring	50.00	37.17	Rmt	1858.5
179	Supplying of Armored Aluminum cable PVC Insulated Approved mark 3.5C x 50 sq mm cable.	30.00	272.95	Rmt	8188.5
180	Pressure gauge for Entire System with fitting	1.00	1707.00	No	1707
181	Supply installing Testing & Commissioning of Spikler Set	10.00	1689.98	No	16899.8
182	Providing and Fixing SITC of Four Way Fire Bridage Inlet Valve etc. complete	1.00	23288.08	No	23288.08
183	Providing and Fixing SITC 150mm Air Release Valve etc. complete	1.00	3077.98	No	3077.98
184	Providing and Fixing SITC of Jockey Pump 15 HP with all fittings etc. complete	1.00	171902.00	No	171902
185	prviding & fixing steel soap tray	41.00	151.50	No	6211.5
186	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm (Jindal Section :2434, @ Wt. 0.643 Kg/mt) with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation	18.00	1301.82	Smt	23432.76
187	Providing and fixing stainless steel / Alluminum pipe rod of approved pattern and size for windows curtain including fixing in line and level as directed by Engineer in charge. {Market Rate}	100.25	1613.86	Smt	161789.465
188	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge(9) 16 Amp. SP one way switch ,Cat.III	108.00	200.00	No	21600
189	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(3) 32 mm	42.76	25.25	Rmt	1079.69
190	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded,annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(e) One wire 6.00 sq. mm	777.28	62.62	Rmt	48673.2736
191	Providing and erecting following additional parts for panel mounting MCCBs (A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III	3.00	1030.20	No	3090.6

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
192	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity,(B) 40 Amp. Cat.III	43.00	388.85	No	16720.55
193	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity,(c)63 Amp.	11.00	868.60	No	9554.6
194	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq.mm	148.00	8.00	No	1184
195	Supply of ERW blank pipe of approved quality at site of work confirming to IS 1239-1964 200mm internal dia for housing 5.82 mm thick	125.34	1662.90	Rmt	208427.886
196	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.(iii) 63 Amps. FP, Cat. III	11.00	3585.50	No	39440.5
197	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner.(E) 35/50 Sq.mm.	6.00	24.24	No	145.44
198	Major Repair of Doors and Windows as per direction of Engineer in charge,	20.00	1080.29	No	21605.8
				Total Rs. :	43922164.82
				SAY :	43922200.00

**I/We am/are willing to carry out the work at.....% above/below percent
(Should be written in figures and words) of the estimated rate mentioned above.
Amount of my /our tender works out as under.**

Estimated amount put to tender
Deduct..... % below
Net
In words

Estimated amount put to tender
Deduct..... % Above
Net
In words