

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

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
1	Demolition of Brick work and stone masnoary including stacking of sericeable materials and disposal of unsericeable materials with all lead and lift. (ii) in cement mortar	1.00	562.89	Cmt	562.89
2	Dismantalling tiled or stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	155.18	49.12	Smt	7622.44
3	Removing and scraping of old deteriorated plaster of any thickness from wall/RCC member including staking of serviceable material and disposal of unserviceable materials from site work with all lead and lift	593.51	19.89	Smt	11804.91
4	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	6.00	192.09	Nos	1152.54
5	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) Exceeding 3.0 Sq.mt. area	1.00	257.23	Nos	257.23
6	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.	8838.17	11.53	Smt	101904.10
7	Scraping oil paint from steel and other metal surface and making the surface even (with Hand Scraping)	985.92	51.78	Smt	51050.94
8	Dismantling sanitary fittings like wash basin, Indian WC pan, European WC pan, flushing tank etc. including stacking the materials with all lead and lift	12.00	414.23	Nos	4970.76
9	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	326.87	122.94	Cmt	40185.40
10	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	92.23	136.30	Cmt	12570.95
11	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.	315.53	136.92	Cmt	43202.37
12	Filling foundation and plinth with murrum or selected soil in layers of 20 cm. thickness inculding watering, ramming and consolidation etc. complete.	540.00	301.78	Cmt	162961.20
13	White stone Bela mesonary block in course in foundation and plinth with stone of approved quality in cement mortar 1:6 (1 Cement :6 fine sand) including curing etc. complete	59.56	6197.97	Cmt	369151.09

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14	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 adhesion 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 block masonry using proper trowel. For all floor and lead and lift For superstructure.	145.73	4256.99	Cmt	620371.15
15	White stone Bela masonry block work in partition wall upto 15cm thickness in cement mortar 1:4 (1 cement : 4 coarse sand) in super structure including curing etc. complete. For all floors (For Earth Quack zone)	14.00	722.30	Smt	10112.20
16	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	58.63	2769.69	Cmt	162386.92
17	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	11.44	2606.92	Cmt	29823.16
18	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.	35.75	3784.74	Cmt	135304.46
19	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.	87.15	290.63	Smt	25328.40
20	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)	25.57	4246.14	Cmt	108573.80
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) Coping Vertical and horizontal for all floor (Cement Level 360 Kg)	8.78	6401.82	Cmt	56207.98
22	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)	65.71	4464.17	Cmt	293340.61
23	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)	22.90	6026.11	Cmt	137997.92
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 (C) Lintels all floor (Cement Level 380 Kg)	8.59	7812.67	Cmt	67110.84

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25	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 (C) Chajja all floor (Cement Level 380 Kg)	3.49	7517.47	Cmt	26235.97
26	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 (C) Beams all floor (Cement Level 380 Kg)	38.90	6786.42	Cmt	263991.74
27	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)	48.82	7077.71	Cmt	345533.80
28	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 (C) Slab all floor (Cement Level 380 Kg)	79.61	7006.42	Cmt	557781.10
29	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 (E) Staircases including landing all floor (Cement Level 380 Kg)	5.99	7483.50	Cmt	44826.17
30	Providing I.S.I. C.R.S Bars Fe 500 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	34248.59	88.56	Kg	3033055.13
31	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	807.88	148.00	Smt	119566.24
32	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	1609.26	206.45	Smt	332231.73
33	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.	1192.53	315.69	Smt	376469.80
34	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. New work (Two or more coats applied @ 1.43 litre/ 10sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm, Item Includes two coat of primar and putty with scaffolding at all level of work. As per Approval of Engineer Incharge.	6863.22	120.26	Smt	825370.84

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
35	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.	11048.66	91.88	Smt	1015150.88
36	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	1194.52	68.57	Smt	81908.24
37	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.	142.55	1013.87	Smt	144527.17
38	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)	38.91	797.18	Smt	31018.27
39	Providing & Fixing 25mm thick double polished vertical Kotah stone for (partion)urinal as par drawing including round edge moulding etc comp. (As directed by Engineer in charge)	4.10	1335.44	Smt	5475.30
40	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)	45.18	2061.11	Smt	93120.95
41	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 acording 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)	319.76	354.07	Smt	113217.42

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
42	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.	328.79	779.70	Smt	256357.56
43	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.	145.76	24.28	Rmt	3539.05
44	Providing & fixing in position mild steel door with ventilation frame 40x40x6 mm and shutter frame 35x35x5mm ,75x5 mm ms flate at lock rail,10 mm square bar in vent at10 cm c/c coverd with corrugated ms sheet 0.6 mm thick, including applying a priming coat of read lead paint including cleanicn the surface of all dirt, dust and other foreign matter (As directed by Engineer in charge& approved drawing and design etc.)	48.95	3717.92	Smt	181992.18
45	Providing & fixing in position mild steel window with ventilation frame 35x35x5 mm and shutter frame 25x25x5mm ,10 mm square bar grill at10 cm c/c coverd with corrugated ms sheet 0.6 mm thick,including applying a priming coat of read lead paint including cleanicn the surface of all dirt, dust and other foreign matter (As directed by Engineer in charge& approved drawing and design etc.)	32.69	4128.78	Smt	134969.82
46	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 filed up with injected fire retardant grade polyurethene foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & fintures. 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.	36.74	2377.76	Smt	87358.90

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
47	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	35.82	1713.70	Smt	61383.02
48	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	2990.40	91.08	Kg	272365.63
49	Providing & fixing G.I rain water Spout of 65mm dia and 60cm length.	14.00	717.46	Nos	10044.44
50	Painting of logo on front side wall as directed by Engineer in charge and as per approved drawing.	12.08	429.65	Smt	5190.17
51	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.	70.80	963.12	Smt	68188.90
52	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.	230.18	1127.48	Smt	259523.35
53	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.	573.91	38.77	Rmt	22250.49
54	Providing & Fixing Green board(2400mm x 1200mm) with soft board(1200mm x 1200mm) on wall as per the drawing & design etc. complete.	2.00	10352.50	Nos	20705.00
55	Providing upto floor two level precast cement concrete jali or grill 1:2:4 mix (1- Cement : 2- coarse sand : 4-graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia. Mild steel wire including roughening,cleaning, fixing and finishing in cement mortar 1:3 and curing complete.(E) 100mm thick	2.45	850.42	Smt	2083.53

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
56	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 (Otl) 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.)	3.50	4240.02	Smt	14840.07
57	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.	9.35	3861.28	Smt	36102.97
58	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	451.06	165.08	Rmt	74460.98
59	Providing ridges or hips 600 mm overall in precoated G.I. sheet class-3 fixed with G.I.J. or L Hooks and nuts 8mm dia G.I. Limpet and bitumen washer complete. (1) 0.60 mm thick sheet.	265.00	990.31	Smt	262432.15
60	Providing and Fixing 5mm thick Acrylic Name Plate for dark zink glare with braille lippi and fixing with double sided bonding tap and screws as per direction of Engineer in charge of Size having 12' X 4 ' etc. compl.	12.00	484.80	Nos	5817.60
61	Providing and Fixing 5mm thick Acrylic Name Plate for dark zink glare with braille lippi and fixing with double sided bonding tap and screws as per direction of Engineer in charge of Size having 12' X 18 ' etc. compl.	4.00	2181.60	Nos	8726.40

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
62	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x15 mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	10.52	1851.14	Smt	19473.99
63	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)	14.87	5932.22	Per Cmt	88212.11
64	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)	25.64	5466.29	Per Cmt	140155.68
65	RCC GSK (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	10000.00	6.32	Liters	63200.00

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66	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	13.00	2068.97	Nos	26896.61
67	Providing & fixing Stainless steel 316 Grab Bar 40mm dia.75Cm long rail.as directed and approved by engineer incharge.	2.00	2345.22	Nos	4690.44
68	Construction of ICN Chamber as peras directed and approved by engineer incharge.	1.00	4221.83	Nos	4221.83
69	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	56.00	186.83	Nos	10462.48
70	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (ii) 20mm dia.	56.00	214.81	Nos	12029.36
71	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.	21.00	3175.32	Nos	66681.72
72	Providing & fixing urinal of Approved quality including connecting the urinal with waste pipe, trap etc. complete (A) White earthenware flat back or corner type (including Angle cock,Waste coupling,connection pipe & waste pipe) as approved by engineer incharge.	6.00	1834.36	Nos	11006.16
73	Providing and fixing wash down water closet (European type W.C pan) with integral P or S trap including jointing the trap with soil pipe in cement mortar 1:1 (1 cement : 1 fine sand) (seat cover,Jet spray & Flush Tank to be measured Including) (A) Vitreous China (I) Long pattern white as directed and approved by engineer incharge.	2.00	2244.31	Nos	4488.62
74	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.	10.00	1439.67	Nos	14396.70
75	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	3500.00	3.95	Liters	13825.00
76	Providing & fixing UPVC ball valve(A) 40mm dia.	5.00	1687.71	Nos	8438.55
77	Providing & fixing UPVC ball valve(A) 25mm dia.	5.00	650.84	Nos	3254.20

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78	Providing & fixing UPVC ball valve(A) 15mm dia.	5.00	440.56	Nos	2202.80
79	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	8.00	1292.19	Nos	10337.52
80	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. scread down or hinged grating including the cost of cutting and making good the walls.	49.00	574.58	Nos	28154.42
81	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.	2.00	11332.20	Nos	22664.40
82	Providing & fixing 110mm dia PVC cowl vent to pipes.	2.00	19.70	Nos	39.40
83	Providing & fixing 75mm dia PVC cowl vent to pipes.	2.00	30.81	Nos	61.62
84	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.	108.40	148.12	Rmt	16056.21
85	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.	330.00	91.84	Rmt	30307.20
86	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.	52.60	72.65	Rmt	3821.39
87	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	93.60	580.75	Rmt	54358.20

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88	Providing & fixing to wall ceiling and floor 6.0 kg F/cm ² 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	241.75	275.73	Rmt	66657.73
89	Providing & fixing to wall ceiling and floor 6.0 kg F/cm ² working 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	218.00	133.32	Rmt	29063.76
90	Providing and fixing chromium plated brass half trun flush cock of approved quality including fixing in pipe line etc. complete..[ii] 25 mm	12.00	263.77	Nos	3165.24
91	Providing and laying polished kota stone slab 25mm thick in risers of steps,skirting Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slury mixed with pigment to match the shade of slab including rubbing and polishing etc. complete.	17.89	1144.15	Smt	20468.84
92	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	676.36	1120.36	Smt	757766.69
93	Providing and laying Vitrified tiles 8 to 10 mm thick , 24" x 24" in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry	45.76	1195.02	Smt	54684.12
94	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	126.00	350.47	Pt.	44159.22
95	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	50.00	489.85	Pt.	24492.50

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
96	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	20.00	364.61	Pt.	7292.20
97	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	31.00	499.95	Pt.	15498.45
98	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	40.00	241.39	Pt.	9655.60
99	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	6.00	449.45	Pt.	2696.70
100	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	10.00	190.89	Nos	1908.90
101	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	100.00	24.24	Nos	2424.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
102	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	25.00	153.52	Nos	3838.00
103	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	1240.50	23.23	Mtr	28816.82
104	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	750.00	32.32	Mtr	24240.00
105	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	100.00	20.20	Mtr	2020.00
106	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	450.00	44.44	Mtr	19998.00
107	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	900.00	59.59	Mtr	53631.00
108	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	200.00	82.82	Mtr	16564.00
109	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.(b) 2 wire 6 sq. mm	150.00	116.15	Mtr	17422.50
110	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.(c) 4 wire 4 sq. mm	150.00	148.47	Mtr	22270.50

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
111	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	200.00	229.27	Mtr	45854.00
112	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,(i) 4 wire 10 sq. mm (use earth wire of 4 sq.mm.)	150.00	380.77	Mtr	57115.50
113	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.(d) One wire 4.00 sq. mm	50.00	35.35	Mtr	1767.50
114	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	50.00	87.87	Mtr	4393.50
115	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	100.00	44.44	Mtr	4444.00
116	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.(c) 1.00 Sq.mm 2 core round/ flat PVC sheathed	115.00	21.21	Mtr	2439.15
117	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction,[C] CAT - 6	250.00	45.45	Mtr	11362.50
118	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug ,For Modular Type Accessories ,Cat. III	25.00	1081.71	Nos	27042.75
119	Decorative call bell Ting-tong box type 250 volts complete erected	1.00	68.68	Nos	68.68

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
120	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	120.00	295.93	Nos	35511.60
121	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	60.00	112.11	Nos	6726.60
122	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	20.00	4997.48	Nos	99949.60
123	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	1.00	6173.12	Nos	6173.12

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
124	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	1.00	4687.41	Nos	4687.41
125	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	4.00	1961.42	Nos	7845.68
126	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	63.00	112.11	Nos	7062.93
127	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.	4.00	278.76	Nos	1115.04
128	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 ,(A) 6 to 32 Amp. Cat.III	2.00	299.97	Nos	599.94
129	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	4.00	176.75	Nos	707.00
130	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)	4.00	1152.41	Nos	4609.64
131	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 single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP Cat-III	12.00	1969.50	Nos	23634.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
132	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	1.00	2637.11	Nos	2637.11
133	Providing & erecting Medium Voltage Danger Notice Board sticker as per language suggested by engineer incharge of standard size as per IS-2551	5.00	26.26	Nos	131.30
134	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.(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg.	3.00	4591.46	Nos	13774.38
135	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	1.00	5760.03	Nos	5760.03
136	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	10.00	794.87	Kg	7948.70
137	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	15.00	368.65	Nos	5529.75
138	For using salt and charcoal / coke as required for pipe type earthing	15.00	171.70	Nos	2575.50

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
139	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 accesories , 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	1.00	14902.55	Nos	14902.55
140	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.	100.00	77.77	Kg	7777.00
141	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	200.00	90.90	Mtr	18180.00
142	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)	200.00	217.15	Mtr	43430.00
143	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)	50.00	372.69	Mtr	18634.50
144	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 (E) 3 1/2 core 95 Sq. mm (50 Sq. mm 1/2 core)	50.00	484.80	Mtr	24240.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
145	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid 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) 4 core 6 Sq. mm	350.00	124.23	Mtr	43480.50
146	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.(C) 4 core 10 Sq. mm	200.00	138.37	Mtr	27674.00
147	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.	450.00	46.46	Mtr	20907.00
148	Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	450.00	62.62	Mtr	28179.00
149	Supplying following size of Light duty "A" Class G.I . Pipe & erecting as directed by Engineer-in-charge. (B) 50 mm dia	10.00	300.98	Mtr	3009.80
150	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	50.00	62.62	Mtr	3131.00
151	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 (C)90 mm outer dia	350.00	95.95	Mtr	33582.50
152	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	50.00	38.38	Nos	1919.00
153	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.(C) 2 to 4 core 10 Sq. mm	10.00	38.38	Nos	383.80
154	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 3 & 1/2 core 35/50 Sq. mm	5.00	75.75	Nos	378.75
155	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 3 & 1/2 core 95 Sq. mm	10.00	131.30	Nos	1313.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
156	Solder less crimping type Aluminium 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) 6 Sq.mm.	16.00	6.06	Nos	96.96
157	Solder less crimping type Aluminium 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. (B) 10 Sq.mm.	10.00	13.13	Nos	131.30
158	Solder less crimping type Aluminium 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. (c) 16/25 Sq.mm.	10.00	15.15	Nos	151.50
159	Solder less crimping type Aluminium 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. (D) 35 Sq.mm.	10.00	20.20	Nos	202.00
160	Solder less crimping type Aluminium 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. (F) 95 Sq.mm.	10.00	40.40	Nos	404.00
161	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	140.00	8.08	Nos	1131.20
162	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. (B) 10 Sq.mm	320.00	10.10	Nos	3232.00
163	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. (C) 16 Sq.mm	10.00	12.12	Nos	121.20
164	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. (D) 25 Sq.mm	10.00	15.15	Nos	151.50
165	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 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	100.00	1948.29	Nos	194829.00

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
166	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.	60.00	108.07	Mtr	6484.20
167	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.	80.00	108.07	Nos	8645.60
168	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	80.00	18.18	Nos	1454.40
169	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	10.00	2054.34	Nos	20543.40
170	Providing suitable M.S. louver shutter of the Exhaust fan.	4.00	368.65	Nos	1474.60
171	Providing window frame suitable for erection of Exhaust fan complete covering the remaining portion of window with 15 mm. thick plywood and colour washing to match the colour of the wall.	4.00	172.71	Nos	690.84
172	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.	4.00	8252.71	Each	33010.84
173	Providing Aluminium arm bracket of having 2 sets of suitable SS304 hardware for fixing the brackets & spread of 1.2 Mtr (Suitable for 89 to 114 mm pole top dia) (A) Single arm bracket	15.00	2234.12	Nos	33511.80

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
174	Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E),DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (B) 250mm x 200mm x 100mm [deen]	2.00	515.10	Nos	1030.20
175	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. (for 4 & 6 mtr pole)	6.00	809.01	Nos	4854.06
176	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed	1.00	3168.37	Nos	3168.37
177	Supplying & erecting Amplifier having following specification: Power Output :250W (RMS) (300W Max.) inputs : 6 Misc. & 2 Aux. frequency Response :50-1500HZ I3db Tone Controls :Cut & Boost type LED Meter :5 LED Arrays The amplifier suitable to operate 240V A.C.& 24volt D.C. (Battery) with automatic changeover from AC to Battery operation, duly protected by wrong Battery Polarity connections. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	1.00	11298.87	Each	11298.87
178	Supplying & erecting recess wall mounting speaker with 5W rated input power 3.3 K. Ohms / 3W impedance, 100 - 10000 Hz frequency response with 6 inch dia. cone type 8 ohms speakers duly fitted in ABS plastic cabinet of colour match with wall or ceiling of following size. (b)Square shaped 260 x 260mm size speaker	10.00	591.86	Nos	5918.60
179	Supplying, installing and testing approved make microphone for All purpose, with frequency response of 100 - 11000 Hz, having sensitivity 2.2mv / Pa & impedance 500 Ohms (LO- Z) supplied with quick detachable holder, 6 mtr twin core cable & 3 pin XLR connector. [[Approved by Competent Authority i.e. not Below the rank of Executive Engineer]	2.00	1284.72	Each	2569.44

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
180	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.	1.00	46648.87	Nos	46648.87
181	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	1.00	24394.53	Nos	24394.53
182	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.	1.00	1558.43	Nos	1558.43
183	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.	1.00	1275.63	Nos	1275.63
184	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	4.00	274.72	Nos	1098.88
185	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	4.00	43.43	Nos	173.72
186	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	2.00	317.14	Nos	634.28
187	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	1.00	10284.83	Nos	10284.83

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
188	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	Nos	7722.46
189	Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (D)For Open well Horizontal submersible pump set for sump well(i) 1 HP to 5 HP	2.00	856.48	Nos	1712.96
190	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	200.00	146.45	Rmt	29290.00
191	Supplying rubber matting of following thickness as per IS:15652/IEC 61111 (b)4mm	2.10	1027.17	Smt	2157.06
192	Providing ABC Type Fire Extinguisher 6 Kg Isi Marked All Required Fitting Accessories.(M.R.)	3.00	4242.00	Nos	12726.00
193	Providing Co2 Type Fire Extinguisher 4.5 Kg Isi Marked All Required Fitting Accessories.(M.R.)	2.00	7878.00	Nos	15756.00
194	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wood enplug with C.P. brass screws and washers.	5.00	859.41	No	4297.05
195	Providing and fixing C.P. brass towel rail complete with C.P.brass brackets fixed to wooden plugs with C.P. brass screws.(B) 600mm x 20mm size.	3.00	616.42	No	1849.26
196	Providing and fixing Soap Tray	6.00	101.00	No	606.00
	Total Rs. :				14719819.75
	SAY :				14719800.00

I / WE am / are willing to carry out the work at _____ % above / below (percentage should be written in

Estimated amount put to tender

Rs. _____

Deduct / Add: _____ % below / above

Rs. _____

Net Amount

Rs. _____

Item No.	Description Of Item	Quantity	Rate	Unit	Amount
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in words

(Please strike out which ever is not applicable)