

Co-operative Academy of Professional Education (CAPE)
Name of work : Construction of Head Office building to CAPE at Muttathara
TENDER SCHEDULE
NO. W-03 /2019-20/CAPE

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
Appendix A. Civil works building						
1	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge. (16.83)	840.00	sqm	74.41	Rupees Seventy Four Paise Forty One Only	62,504.40
2	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost). (16.84)	840.00	sqm	288.55	Rupees Two Hundred and Eighty Eight Paise Fifty Five Only	2,42,382.00
3	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. - Beyond 30 cm girth up to and including 60 cm girth (2.33.1)	5.00	no	302.34	Rupees Three Hundred and Two Paise Thirty Four Only	1,511.70
4	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix) (15.2.2)	11.00	cum	848.48	Rupees Eight Hundred and Forty Eight Paise Forty Eight Only	9,333.28

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
5	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and Chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (Length of pile for payment shall be measured up to bottom of pile cap). Including charges for M25 concrete. with extra 1m to rock and 1m upwards towards chipping 600 mm dia pipe (20.2.5)	153.00	m	3,298.53	Rupees Three Thousand Two Hundred and Ninety Eight Paise Fifty Three Only	5,04,675.09
6	-do- 450 mm dia. piles (20.2.3)	153.00	m	2,064.12	Rupees Two Thousand Sixty Four Paise Twelve Only	3,15,810.36
7	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Note:- 1 . Initial and Routine Load test shall not be carried out by Dynamic method of testing. Note:-2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge. (20.6.1.1)	1.00	no	53,188.29	Rupees Fifty Three Thousand One Hundred and Eighty Eight Paise Twenty Nine Only	53,188.29
8	Routine test (Test load 1.5 times the safe capacity) (20.6.1.2)	1.00	no	24030.85	Rupees Twenty Four Thousand Thirty Paise Eighty Five Only	24,030.85
9	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge. (15.3)	10.00	cum	2,006.26	Rupees Two Thousand Six Paise Twenty Six Only	20,062.60

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
10	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) up to plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand). (7.1.1)	29.00	cum	5,470.10	Rupees Five Thousand Four Hundred and Seventy Paise Ten Only	1,58,632.90
11	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. -All kinds of soil. (2.8.1)	77.00	cum	229.52	Rupees Two Hundred and Twenty Nine Paise Fifty Two Only	17,673.04
12	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size). Pile cap (4.1.8)	47.00	cum	6,176.71	Rupees Six Thousand One Hundred and Seventy Six Paise Seventy One Only	2,90,305.37
13	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. (2.25)	89.00	cum	173.45	Rupees One Hundred and Seventy Three Paise Forty Five Only	15,437.05
14	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge (5.33.1)	51.00	cum	8,891.66	Rupees Eight Thousand Eight Hundred and Ninety One Paise Sixty Six Only	4,53,474.66

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
15	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge All works above plinth level up to floor V level (5.33.2)	230.00	cum	9,999.99	Rupees Nine Thousand Nine Hundred and Ninety Nine Paise Ninety Nine Only	22,99,997.70
16	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Foundations, footings, bases of columns, etc. for mass concrete (5.9.1)	117.00	sqm	267.52	Rupees Two Hundred and Sixty Seven Paise Fifty Two Only	31,299.84
17	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Walls (any thickness) including attached pilasters, butresses, plinth and string courses etc. (5.9.2)	71.00	sqm	522.20	Rupees Five Hundred and Twenty Two Paise Twenty Only	37,076.20
18	Centering and shuttering including strutting, propping etc. and removal of form for all heights : Suspended floors, roofs, landings, balconies and access platform (5.9.3)	892.00	sqm	582.48	Rupees Five Hundred and Eighty Two Paise Forty Eight Only	5,19,572.16
19	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, breastsummers and cantilevers. (5.9.5)	1,950.00	sqm	472.96	Rupees Four Hundred and Seventy Two Paise Ninety Six Only	9,22,272.00
20	Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts. (5.9.6)	430.00	sqm	645.31	Rupees Six Hundred and Forty Five Paise Thirty One Only	2,77,483.30
21	Centering and shuttering including strutting, propping etc. and removal of form for Stairs, (excluding landings) except spiral-staircases (5.9.7)	14.00	sqm	578.41	Rupees Five Hundred and Seventy Eight Paise Forty One Only	8,097.74
22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more. Code (5.22.6)	28,500.00	kg	78.07	Rupees Seventy Eight Paise Seven Only	22,24,995.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
23	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand) etc complete. (50.6.1.2)	123.00	cum	5,652.59	Rupees Five Thousand Six Hundred and Fifty Two Paise Fifty Nine Only	6,95,268.57
24	Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x15 cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth with thickness 15cm in: CM 1:6 (1 cement :6 coarse sand) etc complete (50.6.2.1)	11.00	cum	5,365.21	Rupees Five Thousand Three Hundred and Sixty Five Paise Twenty One Only	59,017.31
25	Solid masonry using pre cast solid blocks (factory made) of size 30x20x15cm or nearest available size confirming to IS 2185 part I of 1979 for super structure up to floor two level with thickness 15cm in : CM 1:6 (1 cement : 6 coarse sand) etc complete (50.6.2.2)	34.00	cum	5,881.34	Rupees Five Thousand Eight Hundred and Eighty One Paise Thirty Four Only	1,99,965.56
26	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x10cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth for 10 cm thick wall in CM 1:6 (1 cement : 6 coarse sand) including cost of scaffolding etc complete (50.6.3.1)	11.00	cum	6,004.95	Rupees Six Thousand Four Paise Ninety Five Only	66,054.45
27	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood (9.1.1)	0.12	cum	1,27,920.49	Rupees One Lakh Twenty Seven Thousand Nine Hundred and Twenty Paise Forty Nine Only	15,350.46
28	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood for All stories (50.9.1.1)	0.70	cum	1,01,931.41	Rupees One Lakh One Thousand Nine Hundred and Thirty One Paise Forty One Only	71,351.99

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
29	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Using Second class teak wood, 35 mm thick shutters (9.5.1.1)	4.50	sqm	3,514.66	Rupees Three Thousand Five Hundred and Fourteen Paise Sixty Six Only	15,815.97
30	Providing and fixing panelled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer in - charge. using Anjili/ Jack wood (50.9.2.1)	19.00	sqm	2,876.59	Rupees Two Thousand Eight Hundred and Seventy Six Paise Fifty Nine Only	54,655.21
31	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : Powder coated aluminium (minimum thickness of powder coating 50 micron) (21.1.1.2)	1,160.00	kg	530.34	Rupees Five Hundred and Thirty Paise Thirty Four Only	6,15,194.40
32	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) (21.1.2.2)	600.00	kg	613.72	Rupees Six Hundred and Thirteen Paise Seventy Two Only	3,68,232.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
33	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4 mm thickness (21.3.1)	175.00	sqm	1,022.75	Rupees One Thousand Twenty Two Paise Seventy Five Only	1,78,981.25
34	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required For safety bars behind doors to fire escape using 50x6mm size steel flat including providing locking facilities (10.25.2)	201.00	kg	118.55	Rupees One Hundred and Eighteen Paise Fifty Five Only	23,828.55
35	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. (9.48.2)	3,275.00	kg	155.10	Rupees One Hundred and Fifty Five Paise Ten Only	5,07,952.50
36	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) (9.53)	66.00	no	163.58	Rupees One Hundred and Sixty Three Paise Fifty Eight Only	10,796.28
37	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 200x10 mm (9.74.2)	22.00	no	346.89	Rupees Three Hundred and Forty Six Paise Eighty Nine Only	7,631.58
38	Providing and fixing bright finished brass door latch with necessary screws etc. complete :300x16x5 mm (9.75.1)	12.00	no	313.17	Rupees Three Hundred and Thirteen Paise Seventeen Only	3,758.04
39	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :125x64x1.90 mm, All stories (9.70.1)	90.00	no	89.52	Rupees Eighty Nine Paise Fifty Two Only	8,056.80
40	Providing and fixing bright finished brass handles with screws etc. complete : 125 mm (9.81.1)	22.00	no	236.14	Rupees Two Hundred and Thirty Six Paise Fourteen Only	5,195.08
41	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete (14.34)	11.00	no	291.24	Rupees Two Hundred and Ninety One Paise Twenty Four Only	3,203.64

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
42	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with Isil, IS : 3564, embossed on the body, door weight up to 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. (9.84)	2.00	no	535.72	Rupees Five Hundred and Thirty Five Paise Seventy Two Only	1,071.44
43	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer in- charge. (9.76)	11.00	no	767.51	Rupees Seven Hundred and Sixty Seven Paise Fifty One Only	8,442.61
44	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of tile 800x800 mm (including skirting) (11.41.3)	525.00	sqm	1,951.64	Rupees One Thousand Nine Hundred and Fifty One Paise Sixty Four Only	10,24,611.00
45	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 800x800 mm (11.46.3)	44.00	sqm	1,976.26	Rupees One Thousand Nine Hundred and Seventy Six Paise Twenty Six Only	86,955.44
46	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete. (11.40)	75.00	sqm	1,242.82	Rupees One Thousand Two Hundred and Forty Two Paise Eighty Two Only	93,211.50

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
47	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (11.36)	220.00	sqm	1,027.30	Rupees One Thousand Twenty Seven Paise Thirty Only	2,26,006.00
48	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. (8.2.1.2)	7.00	sqm	2,551.91	Rupees Two Thousand Five Hundred and Fifty One Paise Ninety One Only	17,863.37
49	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. FOR Granite work (8.3.2)	12.00	m	338.89	Rupees Three Hundred and Thirty Eight Paise Eighty Nine Only	4,066.68
50	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete. (8.5)	13.00	no	590.34	Rupees Five Hundred and Ninety Paise Thirty Four Only	7,674.42
51	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required Kitchen sink without drain board 470x420 mm bowl depth 178 mm (17.10.2.3)	1.00	no	2,775.15	Rupees Two Thousand Seven Hundred and Seventy Five Paise Fifteen Only	2,775.15

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
52	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete (9.97.1)	20.00	no	137.52	Rupees One Hundred and Thirty Seven Paise Fifty Two Only	2,750.40
53	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 125 mm (9.100.1)	20.00	no	70.48	Rupees Seventy Paise Forty Eight Only	1,409.60
54	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab over 20 mm average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. (8.13.1)	4.00	sqm	4,051.97	Rupees Four Thousand Fifty One Paise Ninety Seven Only	16,207.88
55	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. (8.10.1)	3.00	sqm	3,906.11	Rupees Three Thousand Nine Hundred and Six Paise Eleven Only	11,718.33

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
56	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. (22.5)	75.00	sqm	411.45	Rupees Four Hundred and Eleven Paise Forty Five Only	30,858.75
57	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) (4.2.5)	11.00	cum	8,265.80	Rupees Eight Thousand Two Hundred and Sixty Five Paise Eighty Only	90,923.80
58	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge (9.117.1)	72.00	m	299.03	Rupees Two Hundred and Ninety Nine Paise Three Only	21,530.16
59	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Up to 5mm depth and 5 mm width (21.8.1)	60.00	m	86.14	Rupees Eighty Six Paise Fourteen Only	5,168.40

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
60	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complet	20.00	sqm	2,686.88	Rupees Two Thousand Six Hundred and Eighty Six Paise Eighty Eight Only	53,737.60
61	Plastering - 12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand) (13.4.1)	2,400.00	sqm	249.45	Rupees Two Hundred and Forty Nine Paise Forty Five Only	5,98,680.00
62	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand) for under side of slabs, beams and concrete structures (13.16.1)	1,700.00	sqm	198.34	Rupees One Hundred and Ninety Eight Paise Thirty Four Only	3,37,178.00
63	12 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 fine sand) (13.7.1)	380.00	sqm	312.83	Rupees Three Hundred and Twelve Paise Eighty Three Only	1,18,875.40
64	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers. (13.21)	2,230.00	kg of cement	1.38	Rupees One Paise Thirty Eight Only	3,077.40
65	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : (13.43.1)	2,800.00	sqm	50.97	Rupees Fifty Paise Ninety Seven Only	1,42,716.00
66	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @2.20kg/10 sqm. (13.45.1)	1,700.00	sqm	207.79	Rupees Two Hundred and Seven Paise Seventy Nine Only	3,53,243.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
67	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work (13.60.1)	2,800.00	sqm	116.48	Rupees One Hundred and Sixteen Paise Forty Eight Only	3,26,144.00
68	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture (13.48.3)	440.00	sqm	116.90	Rupees One Hundred and Sixteen Paise Ninety Only	51,436.00
69	Applying priming coat : With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) (13.50.1)	65.00	sqm	48.21	Rupees Forty Eight Paise Twenty One Only	3,133.65
70	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work (13.61.1)	65.00	sqm	108.14	Rupees One Hundred and Eight Paise Fourteen Only	7,029.10
71	Lacquer polishing to wood work after scrapping and cleaning the surface with lacquer polish of approved brand and manufacture for new work in the teak wood door, including cost of all materials and labour charges, etc. complete. (MR)	11.50	sqm	725.55	Rupees Seven Hundred and Twenty Five Paise Fifty Five Only	8,343.83
72	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.20 mm M.S. laths with 1.20 mm thick top cover (10.6.2)	18.00	sqm	2,539.84	Rupees Two Thousand Five Hundred and Thirty Nine Paise Eighty Four Only	45,717.12
73	Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in-charge, (area of grill to be measured). (10.9)	18.00	sqm	432.55	Rupees Four Hundred and Thirty Two Paise Fifty Five Only	7,785.90
74	Providing and fixing ball bearing for rolling shutters (10.7)	2.00	no	523.17	Rupees Five Hundred and Twenty Three Paise Seventeen Only	1,046.34

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
75	Extra for providing mechanical device chain and crank operation for operating rolling shutters. (10.8.1)	18.00	sqm	998.68	Rupees Nine Hundred and Ninety Eight Paise Sixty Eight Only	17,976.24
76	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.). (10.28)	1,220.00	kg	651.58	Rupees Six Hundred and Fifty One Paise Fifty Eight Only	7,94,927.60
77	Supplying and fixing angular GRAB rail for disabled toilet of Stainless Steel having a dia of 35 mm, thickness 1.2 mm and polished surface (OD1)	4.00	no	2,200.00	Rupees Two Thousand Two Hundred Only	8,800.00
78	Supplying and fixing 30 Inch Stainless Steel Handicapped Grab Bar, ACC-1019 For disabled toilet (OD2)	2.00	no	3,500.00	Rupees Three Thousand Five Hundred Only	7,000.00
79	Supplying and fixing 30 Inch Heavy duty Stainless Steel Handicapped swing up Grab Bar for DA toilets (OD3)	2.00	no	1,100.00	Rupees One Thousand One Hundred Only	2,200.00
80	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete. (14.12)	30.00	no	358.00	Rupees Three Hundred and Fifty Eight Only	10,740.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
84	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately). (21.18)	4.00	sqm	6,356.99	Rupees Six Thousand Three Hundred and Fifty Six Paise Ninety Nine Only	25,427.96
85	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on inter- locking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stitched double webbed white with 6 mm reveal profile (white/black),comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 8e as per manufac i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. (26.23.1)	70.00	sqm	2,429.15	Rupees Two Thousand Four Hundred and Twenty Nine Paise Fifteen Only	1,70,040.50

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
86	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of fine sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. complete as per manufacturer's specifications & direction of Engineer in-Charge. 60mm thick C.C. paver block of M-35 grade with approved colour, design & pattern. 60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern (16.91.1)	115.00	sqm	1,042.96	Rupees One Thousand Forty Two Paise Ninety Six Only	1,19,940.40
87	Precast terrazzo tiles 22 mm thick with graded marble chips of sizes up to 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of : Medium shade pigment using 50% white cement and 50% ordinary cement. (11.18.2)	260.00	sqm	1,701.85	Rupees One Thousand Seven Hundred and One Paise Eighty Five Only	4,42,481.00
88	Providing and fixing on wall face plasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i)Single socketed pipes. 110 mm diameter (12.41.2)	60.00	m	326.00	Rupees Three Hundred and Twenty Six Only	19,560.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
89	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (16.69)	3.00	cum	6,913.95	Rupees Six Thousand Nine Hundred and Thirteen Paise Ninety Five Only	20,741.85
90	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work on kerb wall (13.61.1)	25.00	sqm	108.14	Rupees One Hundred and Eight Paise Fourteen Only	2,703.50
91	Providing and fixing on wall face plasticised - PVC moulded fittings/ accessories for plasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110 mm Shoe (12.42.6.2)	6.00	no	135.17	Rupees One Hundred and Thirty Five Paise Seventeen Only	811.02
Appendix B Water supply and sanitary arrangements						
1	Providing and fixing PVC pipes includes joints of pipes with one step PVC solvent cement ,trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 110 mm dia 4 Kgf/cm2 (50.18.9.9.2)	100.00	m	387.70	Rupees Three Hundred and Eighty Seven Paise Seventy Only	38,770.00
2	Providing and fixing PVC pipes including of pipes with one step PVC solvent cement, trenching and refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia 4 Kgf/cm2 (50.18.9.8.2)	50.00	m	252.11	Rupees Two Hundred and Fifty Two Paise Eleven Only	12,605.50
3	Providing and fixing PVC pipes including jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.63 mm dia 4 Kgf/cm2 (50.18.9.7.2)	30.00	m	237.46	Rupees Two Hundred and Thirty Seven Paise Forty Six Only	7,123.80

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
4	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 20mm pipe 10kgf/cm ² (50.18.8.2.2)	20.00	m	286.76	Rupees Two Hundred and Eighty Six Paise Seventy Six Only	5,735.20
5	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc. 25mm pipe 10kgf/cm ² (50.18.8.3.2)	80.00	m	313.96	Rupees Three Hundred and Thirteen Paise Ninety Six Only	25,116.80
6	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kgf/cm ² - Internal work - Exposed on wall (50.18.7.4.1)	25.00	m	241.83	Rupees Two Hundred and Forty One Paise Eighty Three Only	6,045.75
7	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10 Kgf/cm - Internal work- Exposed on wall (50.18.7.6.1)	15.00	m	318.68	Rupees Three Hundred and Eighteen Paise Sixty Eight Only	4,780.20
8	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement ()				Rupees zero Only	-
a	110 mm dia Elbow (50.18.9.22.1)	5.00	no	102.50	Rupees One Hundred and Two Paise Fifty Only	512.50
b	110 mm dia Door Elbow (50.18.9.22.3)	5.00	no	126.90	Rupees One Hundred and Twenty Six Paise Ninety Only	634.50
c	110 mm dia Bend (50.18.9.22.4)	8.00	no	155.95	Rupees One Hundred and Fifty Five Paise Ninety Five Only	1,247.60

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
d	110 x 110 x 110 mm dia Tee (50.18.9.22.6)	4.00	no	182.23	Rupees One Hundred and Eighty Two Paise Twenty Three Only	728.92
e	110mmdia vent cowl (50.18.9.22.8)	3.00	no	118.75	Rupees One Hundred and Eighteen Paise Seventy Five Only	356.25
9	Providing and fixing PVC moulded fittings / accessories for Rigid PVC pipes, including jointing with PVC solvent cement ()				Rupees zero Only	-
a	75mm dia 45 degree elbow (50.18.9.21.2)	2.00	no	66.01	Rupees Sixty Six Paise One Only	132.02
b	75mm dia door tee (50.18.9.21.3)	3.00	no	90.41	Rupees Ninety Paise Forty One Only	271.23
c	75mm dia bend (50.18.9.21.4)	2.00	no	84.01	Rupees Eighty Four Paise One Only	168.02
d	75mm dia door tee (50.18.9.21.6)	3.00	no	102.18	Rupees One Hundred and Two Paise Eighteen Only	306.54
e	75x63mm reducer (50.18.9.21.10)	2.00	no	66.01	Rupees Sixty Six Paise One Only	132.02
f	75mm dia elbow (50.18.9.21.11)	2.00	no	90.41	Rupees Ninety Paise Forty One Only	180.82
10	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg(weight of cover 23 kg and weight of frame 15 kg) : (19.7.1.1)	7.00	no	11,909.01	Rupees Eleven Thousand Nine Hundred and Nine Paise One Only	83,363.07

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
11	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked black solid plastic seat and lid (17.2.2)	16.00	no	4,683.34	Rupees Four Thousand Six Hundred and Eighty Three Paise Thirty Four Only	74,933.44
12	Providing and fixing white vitreous china flat back or wall corner type, lipped front urinal basin of 430 mm x 260 mm x 350 mm sizes respectively, with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass unions and GI clamps, including painting of fittings and brackets, cutting and making good the wall and floors wherever required, One urinal basin with 5 litre white PVC automatic flushing cistern, etc., complete. (17.4.1)	6.00	no	4,819.48	Rupees Four Thousand Eight Hundred and Nineteen Paise Forty Eight Only	28,916.88
13	Providing and fixing, PVC waste pipe for sink or wash basin, including PVC waste fittings, flexible pipe of 32 mm dia. etc., complete. (17.28.2.1)	12.00	no	101.03	Rupees One Hundred and One Paise Three Only	1,212.36
14	Providing and fixing 100 mm sand cast iron grating for Gully trap, etc. complete. (17.29)	20.00	no	40.34	Rupees Forty Paise Thirty Four Only	806.80
15	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap. (17.7.2)	12.00	no	2,787.01	Rupees Two Thousand Seven Hundred and Eighty Seven Paise One Only	33,444.12
16	Supplying and fixing CP Health Faucet superior quality including cost of materials and labour charges etc complete, as per the direction of engineering in charge (50.17.1.5)	16.00	no	1,280.41	Rupees One Thousand Two Hundred and Eighty Paise Forty One Only	20,486.56
17	Supplying and fixing towel rod 60cm or nearest available size including cost of materials and labour charges etc complete (50.17.1.3)	10.00	no	127.52	Rupees One Hundred and Twenty Seven Paise Fifty Two Only	1,275.20

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
18	supplying and fixing stainless steel soap dish including cost of materials and labour charges etc complete (50.17.1.1)	8.00	no	66.66	Rupees Sixty Six Paise Sixty Six Only	533.28
19	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm (17.32.2)	8.00	no	1,038.34	Rupees One Thousand Thirty Eight Paise Thirty Four Only	8,306.72
20	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. (18.51.1)	15.00	no	679.37	Rupees Six Hundred and Seventy Nine Paise Thirty Seven Only	10,190.55
21	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15mm nominal bore (18.52.1)	15.00	no	753.03	Rupees Seven Hundred and Fifty Three Paise Three Only	11,295.45
22	Providing and fixing PVC 100mm dia multi floor trap, including all labour charges etc complete (MR2)	10.00	no	112.90	Rupees One Hundred and Twelve Paise Ninety Only	1,129.00
23	Providing and fixing Steel gratings of approved quality and not less than 15 cm nominal bore (MR3)	20.00	no	36.30	Rupees Thirty Six Paise Thirty Only	726.00
24	Providing and fixing 15 mm C.P. brass tap with elbow operation for wash basin of disabled toilet including all labour charges etc complete (MR)	2.00	no	210.00	Rupees Two Hundred and Ten Only	420.00
25	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (18.48)	2,000.00	lit	10.00	Rupees Ten Only	20,000.00
26	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 25 mm nominal bore (18.18.3)	3.00	no	457.86	Rupees Four Hundred and Fifty Seven Paise Eighty Six Only	1,373.58
27	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore. (18.17.1)	2.00	no	590.62	Rupees Five Hundred and Ninety Paise Sixty Two Only	1,181.24

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
28	32 mm nominal bore. (18.17.2)	5.00	no	690.68	Rupees Six Hundred and Ninety Paise Sixty Eight Only	3,453.40
29	40 mm nominal bore (18.17.3)	4.00	no	806.48	Rupees Eight Hundred and Six Paise Forty Eight Only	3,225.92
30	50 mm nominal bore (18.17.4)	4.00	no	1,034.34	Rupees One Thousand Thirty Four Paise Thirty Four Only	4,137.36
(Appendix C Septic Tank, Sump Tank and Rain Water Harvesting)						
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50m outside the periphery of the area cleared. (2.31)	60.00	sqm	9.93	Rupees Nine Paise Ninety Three Only	595.80
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. (2.8.1)	60.00	cum	229.52	Rupees Two Hundred and Twenty Nine Paise Fifty Two Only	13,771.20
3	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kind of soil (2.26.1)	50.00	cum	71.38	Rupees Seventy One Paise Thirty Eight Only	3,569.00
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 cement : 4 coarse aggregate; 8graded aggregate 40mm nominal size (4.1.8)	10.00	cum	6,176.71	Rupees Six Thousand One Hundred and Seventy Six Paise Seventy One Only	61,767.10

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. all work up to plinth level (5.33.1)	22.00	cum	8,891.66	Rupees Eight Thousand Eight Hundred and Ninety One Paise Sixty Six Only	1,95,616.52
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. Thermo - Mechanically Treated bars (5.22.6)	2,480.00	kg	78.07	Rupees Seventy Eight Paise Seven Only	1,93,613.60
7	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster (13.7.1)	92.00	sqm	312.83	Rupees Three Hundred and Twelve Paise Eighty Three Only	28,780.36
8	Plastering the under side of slab , side of beam, under side sunshade, rack, etc with cement mortar 1:3, of 6 mm cement plaster of mix : (13.16.1)	54.00	sqm	198.34	Rupees One Hundred and Ninety Eight Paise Thirty Four Only	10,710.36
9	Filling the dispersion trenches with 12 to 15mm well graded broken stone (16.3.3)	2.00	cum	2,127.23	Rupees Two Thousand One Hundred and Twenty Seven Paise Twentv Three Only	4,254.46
(Appendix D Compound Wall and Gate)		-				
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. (2.8.1)	16.00	cum	229.52	Rupees Two Hundred and Twenty Nine Paise Fifty Two Only	3,672.32
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size). (4.1.8)	4.00	cum	6,176.71	Rupees Six Thousand One Hundred and Seventy Six Paise Seventy One Only	24,706.84

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
3	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge - Plinth Beam at Ground Level (5.33.2)	9.00	cum	9,999.99	Rupees Nine Thousand Nine Hundred and Ninety Nine Paise Ninety Nine Only	89,999.91
4	Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x15 cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth with thickness 15cm in: CM 1:6 (1 cement :6 coarse sand) etc complete (50.6.2.1)	26.00	cum	5,365.21	Rupees Five Thousand Three Hundred and Sixty Five Paise Twenty One Only	1,39,495.46
5	Plastering(cement plaster) with CM 1:4 (1 cement,4 fine sand) ,12mm thick, to the internal and external walls including all costs of materials and labour charges watering , curing etc complete (SH: 13.1.1)Plastering - 12 mm cement plaster of mix : (13.1.1)	42.00	sqm	238.55	Rupees Two Hundred and Thirty Eight Paise Fifty Five Only	10,019.10
6	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : (13.43.1)	50.00	sqm	50.97	Rupees Fifty Paise Ninety Seven Only	2,548.50
7	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @2.20kg/10 sqm. (13.45.1)	50.00	sqm	207.79	Rupees Two Hundred and Seven Paise Seventy Nine Only	10,389.50
8	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture. (13.48.3)	10.00	sqm	116.90	Rupees One Hundred and Sixteen Paise Ninety Only	1,169.00
9	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge : (15.9.1)	5.00	cum	653.93	Rupees Six Hundred and Fifty Three Paise Ninety Three Only	3,269.65

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
10	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. (15.7.1)	5.00	cum	397.86	Rupees Three Hundred and Ninety Seven Paise Eighty Six Only	1,989.30
11	Steel work in built up G I tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete (10.16.1)	900.00	kg	124.48	Rupees One Hundred and Twenty Four Paise Forty Eight Only	1,12,032.00
(Appendix E Road work)						
1	Supplying and stacking 12mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a) (55.2)	7.00	cum	2,342.83	Rupees Two Thousand Three Hundred and Forty Two Paise Eighty Three Only	16,399.81
2	Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement (IRC 3.2.1.a) (55.3)	18.00	cum	2,342.83	Rupees Two Thousand Three Hundred and Forty Two Paise Eighty Three Only	42,170.94
3	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers 20 cm thick with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. (4.12)	35.00	cum	2,996.63	Rupees Two Thousand Nine Hundred and Ninety Six Paise Sixty Three Only	1,04,882.05
4	Providing and applying primer coat with bitumen emulsion (SS) 0.20 to 0.30 kg/m ² on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means. (5.1.a)	174.00	sqm	49.49	Rupees Forty Nine Paise Forty Nine Only	8,611.26
5	Providing and applying primer coat with bitumen emulsion (SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means. (5.2.a)	174.00	sqm	9.68	Rupees Nine Paise Sixty Eight Only	1,684.32

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
6	Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades, followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm. By Manual Means. (55.1.a)	174.00	sqm	176.52	Rupees One Hundred and Seventy Six Paise Fifty Two Only	30,714.48
7	Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades, followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm. By Manual Means. (55.1.a)	174.00	sqm	176.52	Rupees One Hundred and Seventy Six Paise Fifty Two Only	30,714.48
(Appendix F Air Conditioning)						-

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
1	Supply, installation, testing and commissioning of following minimum capacity VRV/VRF Highwall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/ dynamically balanced blower, multi-speed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cordless remote control, drain pan, necessary accessories etc., suitable for operation on 230V ±10%, 50Hz, single phase AC supply, complete as required. The unit shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. 1.65 TR (3.6)	3.00	no	21,746.00	Rupees Twenty One Thousand Seven Hundred and Forty Six Only	65,238.00
2	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/ brazing including accessories, insulated with XPLE Class-O tubular insulation/ with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required. 12.7mmdia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation (5.3)	10.00	m	466.00	Rupees Four Hundred and Sixty Six Only	4,660.00
(Appendix G Installation of Solar Panel)		-				

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
1	<p>Supply, Installation, Testing and Commissioning of on-grid Solar Photovoltaic Power Plant conforming to MNRE specifications as amended, consisting of Mono/Poly-Crystalline silicon solar cells, net-metering facility, necessary protections, earthing, mounted on Aluminium/GI structure of suitable strength with following components complete as required:-</p> <p>a) Solar Photo-voltaic Module of capacity 330W or above, manufactured in India, conforming to IS14286/IEC61215,IS/IEC61730- Part-1, IS/IEC61730- Part-2. Solar Photo-voltaic Module conversion efficiency shall not be less than 16.5%. PV modules used in solar power plants /systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years (DSR)</p>	10.00	kwh	61,060.00	Rupees Sixty One Thousand Sixty Only	6,10,600.00
0	<p>b) Power Conditioning Unit (PCU) of 350-800V DC Input voltage range and 400VAC, three-phase, 4wire, 50Hz+/-2.5Hz, output voltage suitable to generate AC Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 degree C. The PCU shall adjust the voltage and frequency level to suit the Grid Voltage Frequency.</p> <p>c) Data Monitoring System complete with accessories.</p> <p>d) Fixing of Array junction box & Main junction box with IP65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other accessories etc. as required.</p> <p>e) Lightning and surge voltage protection.</p> <p>f) Connections & Interconnections by supplying & fixing required size XLPE insulated copper conductor 1.1kV grade armoured power and control cables between solar modules, main power cable to grid supply PCU unit along with supplying & fixing of necessary channel/conduit lugs and other accessories etc. as required.</p> <p>()</p>	-	61060	0.00	Rupees zero Only	-
(Appendix H Installation of Lift)						

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
1	<p>BASIC ELEVATOR DATA: Elevator Type: Passenger Elevator PWI05/10-19, Product: Monospace, No. of Units: 1, Load & Capacity: 340 kg or 5 persons, Speed: 1 m/s, Stops & Openings: 3 stops & 3 openings, Single entrance car, Travel height: 6.4 m, Elevator Grouping: Simplex, Car dimensions: 950 mm wide x 1000 mm deep x 2200 mm height, Door dimensions 700 mm wide x 2000 mm height, Door type: Two-panel centre opening Panel 4,</p> <p>FINISHES: Car design: Stainless Steel, Car Panel Finish: Stainless steel AISI441, Handrail: Round Bend Handrail Stainless Steel at Rear Wall, Ceiling & Lighting: Integrated Roof RL20 Stainless Steel Ring Lighting LED, Flooring: 20 mm, Car Door Finish: Stainless steel AISI441, Landing Door Finish, Floor Number: 1-3, Landing Door Material: Stainless steel AISI441, Car Operating Panel 1 Full Height Stainless Steel Face Plate Square surface mounted Buttons KDS90, Landing Signalization: Stainless Steel 7 segment display Flush Mounted KDS90.</p> <p>FEATURES: Car Emergency Light, Fireman Drive, Curtain of</p>	1.00	no	8,50,000.00	Rupees Eight Lakh Fifty Thousand Only	8,50,000.00
Appendix I - Electrification works						
1	Wiring for Light point/Fan point/Exhaust fan point/Call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm, FRLS PVC insulated copper conductor single core cable etc. As required.	235.00	no	848.27	Rupees Eight Hundred and Forty Eight Paise Twenty Seven Only	1,99,343.45
2	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm, FRLS PVC insulated copper conductor single core cable etc. As required.	3.00	no	1,115.85	Rupees One Thousand One Hundred and Fifteen Paise Eighty Five Only	3,347.55
3	Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that of light points.	25.00	no	483.00	Rupees Four Hundred and Eighty Three Only	12,075.00
4	Supply and fixing of modular blanking plate in the existing switch boards as required.	25.00	no	33.10	Rupees Thirty Three Paise Ten Only	827.50

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
5	Supplying and fixing suitable size GI box with modular plate and covering front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket and 5/6 Amps switch, connection etc. As required. (for light plugs to be used in non residential buildings)	30.00	no	431.72	Rupees Four Hundred and Thirty One Paise Seventy Two Only	12,951.60
6	Supplying and fixing suitable size GI box with modular plate and covering front on surface or in recess, including providing and fixing two nos. of 3 pin 5/6 amps modular socket and one No. 5/6 Amps switch, connection etc. As required. (for light plugs to be used in non residential buildings)	40.00	no	516.74	Rupees Five Hundred and Sixteen Paise Seventy Four Only	20,669.60
7	Supplying and fixing suitable size GI box with modular plate and covering front on surface or in recess, including providing and fixing 3 Nos. of 3 pin 5/6 amps modular socket and two Nos. of 5/6 Amps switch, connection etc. As required. (for light plugs to be used in non residential buildings)	30.00	no	633.48	Rupees Six Hundred and Thirty Three Paise Forty Eight Only	19,004.40
8	Supplying and fixing suitable size GI box with modular plate and covering front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket and 15/16 Amps switch, connection etc. As required.	12.00	no	560.00	Rupees Five Hundred and Sixty Only	6,720.00
9	Supplying and fixing 20A, 240V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20A,"C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	7.00	no	1,351.71	Rupees One Thousand Three Hundred and Fifty One Paise Seventy One Only	9,461.97
10	Wiring for circuit / sub main along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed existing medium class PVC conduit as required.					
a	2x4 sq.mm+1x2.5 sq.mm	1,000.00	no	145.52	Rupees One Hundred and Forty Five Paise Fifty Two Only	1,45,520.00
b	2x2.5 sq.mm + 1x1.5 sq.mm	2,500.00	no	104.83	Rupees One Hundred and Four Paise Eighty Three Only	2,62,075.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
c	3x1.5sq.mm	1,500.00	no	68.97	Rupees Sixty Eight Paise Ninety Seven Only	1,03,455.00
d	3x4 sq.mm +1x4 sq.mm	60.00	no	204.13	Rupees Two Hundred and Four Paise Thirteen Only	12,247.80
11	Supplying & Drawing unarmoured PVC insulated and & PVC sheathed copper conductor Telephone Pair Cable conforming to ITD specification for indoor application through the existing conduit					
	2 Pair	800.00	no	26.20	Rupees Twenty Six Paise Twenty Only	20,960.00
12	Supply and drawing co-axial TV cable RG-6 grade, 0.7mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed PVC conduit as required.	300.00	no	40.00	Rupees Forty Only	12,000.00
13	Supply and fixing cast aluminium stove enamelled bulk head fitting with deep drawn anodised aluminium body, epoxy powder coated, heat resistant prismatic glass cover suitable for 9 W LED to wall / ceiling including giving connections with required length of 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and making good the surface as required.	35.00	no	601.00	Rupees Six Hundred and One Only	21,035.00
14	Supply and providing 9W LED lamp int he existing fittings as required.	30.00	no	145.00	Rupees One Hundred and Forty Five Only	4,350.00
15	Supply, Conveyance, installation testing and commissioning of 18 Watts LED square type ceiling mounting luminaire equivalent to LHEWLP7PLIWO18 of Havells with lamp making good the damages etc.as required including giving connections with required length of 24/0.20 mm PVC insulated PVC sheathed round copper conductor flex wire conforming to relevant ISS	20.00	no	2,010.00	Rupees Two Thousand Ten Only	40,200.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
16	Supply, Conveyance, installation testing and commissioning of 34 Watts LED square type recess mounting luminaire equivalent to LHEWP7UNIWO36 of Havells with lamp making good the damages etc.as required including cutting the ceiling giving connections with required length of 24/0.20 mm PVC insulated and PVC sheathed round copper conductor flex wire conforming to relevant ISS	18.00	no	3,800.00	Rupees Three Thousand Eight Hundred Only	68,400.00
17	Supply and installation of 20W,2000 lumen LED IP 65 street light fitting with aluminium housing, stove enamelled CRCA sheet steel reflector cover, acrylic cover complete with THD<10%, power factor> 0.98, RoHS complaint, duly wired up for use on 230 V AC supply.	4.00	no	2,881.00	Rupees Two Thousand Eight Hundred and Eighty One Only	11,524.00
18	Supply and fixing following sizes of medium class PVC conduit along with accessories in surface/recess including the cutting the wall and making good the same in case of recessed conduit as required. a) 20 mm	3,000.00	no	78.62	Rupees Seventy Eight Paise Sixty Two Only	2,35,860.00
b)	25mm	100.00	no	95.17	Rupees Ninety Five Paise Seventeen Only	9,517.00
c)	32mm	100.00	no	122.76	Rupees One Hundred and Twenty Two Paise Seventy Six Only	12,276.00
19	Supply and fixing 50 x 50 mm PVC Cable Management System with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required.					
a)	50 x 50 mm CMS with base & lid	100.00	no	537.00	Rupees Five Hundred and Thirty Seven Only	53,700.00
b)	External Angle 90°	52.00	no	130.00	Rupees One Hundred and Thirty Only	6,760.00
c)	Flat Angle 90°/TEE	42.00	no	115.00	Rupees One Hundred and Fifteen Only	4,830.00
d)	Internal Angle 90°	30.00	no	127.00	Rupees One Hundred and Twenty Seven Only	3,810.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
e)	Internal Coupler	20.00	no	92.00	Rupees Ninety Two Only	1,840.00
f)	Flat cross	22.00	no	481.00	Rupees Four Hundred and Eighty One Only	10,582.00
g)	End Cap	15.00	no	70.00	Rupees Seventy Only	1,050.00
h)	Flanged Coupler	30.00	no	109.00	Rupees One Hundred and Nine Only	3,270.00
i)	Joint cover	42.00	no	81.00	Rupees Eighty One Only	3,402.00
j)	Cable Retainer	50.00	no	42.00	Rupees Forty Two Only	2,100.00
k)	Wall plate for internal angle	40.00	no	70.00	Rupees Seventy Only	2,800.00
	CALL BELL					
20	Supply and fixing the following types of superior quality 250V A.C call bell on existing M.S. box and giving connections with required length of 3 core, 16 / 0.20mm 650/1100V grade PVC insulated and PVC sheathed round copper conductor flex wire conforming to relevant ISS or with the extended original wiring, earthing the MS box and making good the surface as required.					
	Ding Dong bell	5.00	no	84.14	Rupees Eighty Four Paise Fourteen Only	420.70
21	Supply, conveyance, installation, testing and commissioning of 1200 mm sweep - 5 star rated ceiling fans using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.	35.00	no	1,801.00	Rupees One Thousand Eight Hundred and One Only	63,035.00
22	Supply, conveyance, installation, testing and commissioning of 1400 mm sweep - 5 star rated ceiling fans using standard accessories excluding resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.	10.00	no	1,703.54	Rupees One Thousand Seven Hundred and Three Paise Fifty Four Only	17,035.40
23	Supply and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	55.00	no	397.24	Rupees Three Hundred and Ninety Seven Paise Twenty Four Only	21,848.20

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
24	Charges for cutting holes suitable for accommodating exhaust fans of sizes up to 305 mm sweep including plastering, colour washing etc. as required.	15.00	no	294.00	Rupees Two Hundred and Ninety Four Only	4,410.00
25	Supply, of the following sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.					
a	300/305 mm sweep light duty in metal frame working on 230V AC	5.00	no	1,457.00	Rupees One Thousand Four Hundred and Fifty Seven Only	7,285.00
b	380 mm sweep, 900 rpm heavy duty in metal frame working on 230V AC	10.00	no	2,327.29	Rupees Two Thousand Three Hundred and Twenty Seven Paise Twenty Nine Only	23,272.90
c	Installation of 300/305 mm sweep light duty/900 rpm heavy duty in metal frame working on 230V AC	15.00	no	308.95	Rupees Three Hundred and Eight Paise Ninety Five Only	4,634.25
26	Supply and providing every additional length of down rod of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	100.00	no	115.00	Rupees One Hundred and Fifteen Only	11,500.00
27	Supply and installation of suitable size MS rod type fan clamp as per IS 732 as required.	55.00	no	41.42	Rupees Forty One Paise Forty Two Only	2,278.10
28	Supply and installation of 1x20 W, 4 feet LED Tube light fittings with required accessories as required. (Philips/Bajaj/ exact equivalent make.)	95.00	no	491.07	Rupees Four Hundred and Ninety One Paise Seven Only	46,651.65
29	Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in ground including excavation of trench of size 35 x 75 cm, refilling the trench etc. as required including sand cushioning and protective covering (in hard soil).					

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
a	3.5 x 150 sq.mm	400.00	no	907.66	Rupees Nine Hundred and Seven Paise Sixty Six Only	3,63,064.00
30	Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.	-	no	0.00	Rupees zero Only	-
a	3.5 x 25 sq.mm	60.00	no	224.52	Rupees Two Hundred and Twenty Four Paise Fifty Two Only	13,471.20
b	4 x10 sq.mm	60.00	no	151.42	Rupees One Hundred and Fifty One Paise Forty Two Only	9,085.20
c	4x 6 Sq.mm	80.00	no	142.66	Rupees One Hundred and Forty Two Paise Sixty Six Only	11,412.80
d)	2x6 Sq.mm	200.00	no	217.70	Rupees Two Hundred and Seventeen Paise Seventy Only	43,540.00
31	Supply and making end termination with brass compression gland and Aluminium lugs for following sizes of PVC insulated and PVC sheathed/XLPE Aluminium conductor cable of 1.1 KV grade as required.					
a	3.5 x 150 sq.mm	2.00	no	816.55	Rupees Eight Hundred and Sixteen Paise Fifty Five Only	1,633.10
b	4 x 25 sq.mm	4.00	no	355.86	Rupees Three Hundred and Fifty Five Paise Eighty Six Only	1,423.44
c	4 x 10 sq.mm	2.00	no	280.00	Rupees Two Hundred and Eighty Only	560.00
d	4 x 6 sq.mm	4.00	no	252.00	Rupees Two Hundred and Fifty Two Only	1,008.00
e	2x6 Sq.mm	12.00	no	216.55	Rupees Two Hundred and Sixteen Paise Fifty Five Only	2,598.60

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
32	supply and fixing cable route marker with 10cmx10cmx5mm thick G.I. plate with inscription there on, bolted/welded to 35mmx35mmx6mm angle iron, 60 cm long and fixing the same in ground as required.	25.00	no	371.03	Rupees Three Hundred and Seventy One Paise Three Only	9,275.75
31	Providing and laying and fixing 150mm dia RCC pipe NP2 class in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc. As required.	10.00	no	558.05	Rupees Five Hundred and Fifty Eight Paise Five Only	5,580.50
33	DISTRIBUTION BOARD					
A	Supplying and fixing following way prewired vertical type TP & N MCB distribution board of steel sheet for 415 volts on surface/recess complete with loose wire box of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper busbar, common neutral link, earth bar, din bar for mounting MCB's, terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor up to the terminal connector/ neutral link, earthing etc as required (But without MCB/RCCB/ Isolator). [Prewired vertical type MCB TPDB is normally used were 3 phase outlets are required.)	-	no	0.00	Rupees zero Only	-
a)	6 way (8+18) double door MCCB DB	1.00	no	8,827.21	Rupees Eight Thousand Eight Hundred and Twenty Seven Paise Twenty One Only	8,827.21
b	4 way (8+12) double door	1.00	no	6,317.82	Rupees Six Thousand Three Hundred and Seventeen Paise Eighty Two Only	6,317.82

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
B	Supplying and fixing following way prewired TP & N MCB distribution board of steel sheet for 415 volts on surface/recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size of FRLS PVC insulated copper conductor up to the terminal blocks, tinned copper busbar, neutral link, earth bar din bar, detachable gland plate, interconnections, powder painted including earthing etc as required (But without MCB/RCCB/ Isolator).	-	no	0.00	Rupees zero Only	-
a	4 way (4+12) double door	4.00	no	3,031.70	Rupees Three Thousand Thirty One Paise Seventy Only	12,126.80
b	12 way single phase double door DB	9.00	no	1,587.57	Rupees One Thousand Five Hundred and Eighty Seven Paise Fifty Seven Only	14,288.13
C	Providing and fixing following rating and breaking capacity and 4 pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. As required. 125 A, 36 kA, 4P MCCB	1.00	no	7,515.81	Rupees Seven Thousand Five Hundred and Fifteen Paise Eighty One Only	7,515.81
D	Supply and installation of the following accessories suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required					
a)	32A TP MCB	3.00	no	965.51	Rupees Nine Hundred and Sixty Five Paise Fifty One Only	2,896.53
b)	63A TP MCB	3.00	no	1,369.00	Rupees One Thousand Three Hundred and Sixty Nine Only	4,107.00
c)	63A 4P MCB Isolator	3.00	no	1,751.00	Rupees One Thousand Seven Hundred and Fifty One Only	5,253.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
d)	40A TP MCB	4.00	no	1,369.00	Rupees One Thousand Three Hundred and Sixty Nine Only	5,476.00
e)	63 A 4 pole Isolator	3.00	no	888.44	Rupees Eight Hundred and Eighty Eight Paise Fortv Four Only	2,665.32
f)	40A 4 pole Isolator	5.00	no	920.00	Rupees Nine Hundred and Twenty Only	4,600.00
g)	40A DP Isolator	2.00	no	306.20	Rupees Three Hundred and Six Paise Twenty Only	612.40
h)	25 A DP Isolator	14.00	no	342.96	Rupees Three Hundred and Forty Two Paise Ninety Six Only	4,801.44
i)	32A DP Isolator	3.00	no	342.96	Rupees Three Hundred and Forty Two Paise Ninety Six Only	1,028.88
j)	40 A 4P 30 mA ELCB	2.00	no	2,371.00	Rupees Two Thousand Three Hundred and Seventy One Only	4,742.00
k)	25A 100 mA 2P ELCB	4.00	no	2,891.00	Rupees Two Thousand Eight Hundred and Ninety One Only	11,564.00
l)	25A 30 mA 4P ELCB	1.00	no	2,891.00	Rupees Two Thousand Eight Hundred and Ninety One Only	2,891.00
m	63A 4 pole 100 mA RCCB	3.00	no	3,175.15	Rupees Three Thousand One Hundred and Seventy Five Paise Fifteen Only	9,525.45
n	SP MCB (6A-32A)	110.00	no	238.62	Rupees Two Hundred and Thirty Eight Paise Sixty Two Only	26,248.20
D	Supply and fixing single pole blanking/ dummy plate in the existing MCB DB complete etc as required	20.00	no	9.66	Rupees Nine Paise Sixty Six Only	193.20
34	Supply and fixing 40 A, double pole 240V Isolator in the existing enclosure complete with connections, testing and commissioning etc as required.	6.00	no	306.20	Rupees Three Hundred and Six Paise Twenty Only	1,837.20

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
35	Supplying and fixing DP sheet steel enclosure on surface/recess along with 25/32A, 240V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	7.00	no	864.82	Rupees Eight Hundred and Sixty Four Paise Eighty Two Only	6,053.74
36	Supply and installation of DP enclosure for independent mounting of MCB/isolator etc. sheet steel, phosphatised and painted, dust and vermin proof fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required.	4.00	no	486.00	Rupees Four Hundred and Eighty Six Only	1,944.00
37	Supply and drawing 2.50 sq. mm PVC insulated & sheathed 650/1100 V grade 3 core copper conductor flat cable for submersible pump motor conforming to IS 694 part I 1990 as required including giving necessary connections of the following sizes.	20.00	no	145.00	Rupees One Hundred and Forty Five Only	2,900.00
38	Supply and installation of 1 HP single phase motor starter fitted on wall/frame work and giving all connections starter side and motor side.	1.00	no	1,500.00	Rupees One Thousand Five Hundred Only	1,500.00
39	Supply and installation of 1HP 230 V submersible pump set in existing sump and giving necessary connections as required.	1.00	no	9,000.00	Rupees Nine Thousand Only	9,000.00
40	Supply and providing 2mm thick Elastomeric fire retardant insulating mat as per IS 15652/2006 to withstand 3.3 KV dielectric strength.	5.00	no	1,809.00	Rupees One Thousand Eight Hundred and Nine Only	9,045.00
41	Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required.	5.00	no	2,324.00	Rupees Two Thousand Three Hundred and Twenty Four Only	11,620.00
42	EARTHING	-	no	0.00	Rupees zero Only	-
a)	Earthing with G.I. Earth plate 600 mm x 600 mm x 6mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. With charcoal/coke and salt as required.	2.00	no	5,968.23	Rupees Five Thousand Nine Hundred and Sixty Eight Paise Twenty Three Only	11,936.46
b)	Earthing with G.I. Earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. With charcoal/coke and salt as required.	2.00	no	5,064.79	Rupees Five Thousand Sixty Four Paise Seventy Nine Only	10,129.58

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
c)	Supply and laying 25mm X 5mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. As required. (joining shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	25.00	no	820.68	Rupees Eight Hundred and Twenty Paise Sixty Eight Only	20,517.00
43	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required.					
a)	3.15 mm copper conductor (10 SWG)	30.00	no	62.00	Rupees Sixty Two Only	1,860.00
b)	2.65 mm copper conductor (12 SWG)	40.00	no	43.00	Rupees Forty Three Only	1,720.00
c)	4.00 mm copper conductor (8 SWG)	25.00	no	97.00	Rupees Ninety Seven Only	2,425.00
44	NET WORKING	-	no	0.00	Rupees zero Only	-
a)	Supplying & Drawing Cat 6 UTP Cable conforming to relevant standards through the existing conduit and giving connections as required	1,500.00	no	52.00	Rupees Fifty Two Only	78,000.00
b)	Supply Crimping D-Link RJ 45 Cable Connector	140.00	no	5.00	Rupees Five Only	700.00
c)	Supply and fixing 24 port Cat 5 E Patch panel Port	4.00	no	4,185.00	Rupees Four Thousand One Hundred and Eighty Five Only	16,740.00
d)	Supply and fixing Bel kin patch chord cat 6 Network cable 7 feet	70.00	no	338.00	Rupees Three Hundred and Thirty Eight Only	23,660.00
e)	Supply and fixing ether net RJ 45 Cat 6 single socket with wall face plate fitted on wall with steel screws on Box including cost of box	70.00	no	285.00	Rupees Two Hundred and Eighty Five Only	19,950.00
f)	Supplying & Drawing the following types of HDMI cable conforming to relevant standards through the existing conduit and giving connections as required 15 Mtr Length single piece Both end are connector provided	20.00	no	2,530.00	Rupees Two Thousand Five Hundred and Thirty Only	50,600.00
g)	supply and fixing Projector stand fixed on roof with anchor bolts and all the wire connection are made -with movable arrangement of projector	2.00	no	2,425.00	Rupees Two Thousand Four Hundred and Twenty Five Only	4,850.00

Item no	Description of item	Qty	Unit	Rate	Rate in words	Amount
h)	Supplying & Drawing the following types of VGA cable conforming to relevant standards through the existing conduit and giving connections as required 15 Mtr Length single piece Both end are connector provided	2.00	no	2,425.00	Rupees Two Thousand Four Hundred and Twenty Five Only	4,850.00
i)	Supplying & Drawing the following types of Optical fibre cable conforming to relevant standards through the existing conduit and giving connections as required	20.00	no	28.00	Rupees Twenty Eight Only	560.00
45	Preparation of all drawings ,Submitting and getting approval from electrical inspectorate, arrange inspection, getting sanction and energisation certificate from electrical inspectorate and KSEB, obtaining power allocation and required connection etc. for commissioning of the whole installation.	1.00	no	15,000.00	Rupees Fifteen Thousand Only	15,000.00

2,25,29,805.37

Rupees Two Crore Twenty Five Lakh Twenty Nine Thousand Eight Hundred and Five Paise Thirty Seven Only

Director

Co-operative Academy of Professional Education (CAPE)

Quoted rate of Contractor

(I) I/We agree to execute the work at

1. Estimate rate

2.% below estimate rate

3.% above estimate rate less cost of department materials to be supplied at and recovered at the rate given in the conditions enclosed.

(II) I/We also agree that the tender excess /deduction may be applied on the amount calculated after deducting the cost of department materials and hire charges of departmental tools and plants from the total amount worked out at the rate given in the schedule

(III) I/We also agree that in the case of tender percentage quoted by the contractor, only the first two digits coming after the decimal will be considered.

Note: Score off words not required. If both above and below are left scored/unscored, quoted rate will be considered below estimate rate.

Tender schedule set no. No. of corrections..... No. of overwriting.

Signature,

Name

and address of Contractor