



कार्यालय परियोजना प्रबन्धक, यूनिट-55

कन्स्ट्रक्शन एण्ड डिजाइन सर्विसेज, उत्तर प्रदेश जल निगम (नगरीय),

परिसर निर्माणाधीन राजकीय मेडिकल कॉलेज, ग्राम-चितौरा, एन0एच0-2, फतेहपुर-212601

(उ0प्र0 सरकार का उपक्रम)

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दिनांक- 20.05.2026

"शुद्धि-पत्र"

इस कार्यालय के पत्रांक 562/ई-टेण्डर/47 दिनांक 07.05.2026 द्वारा जनपद फतेहपुर के नगर पालिका परिषद फतेहपुर में पशु जन्म नियंत्रण केन्द्र (ए0बी0सी0 सेन्टर) के निर्माण कार्य हेतु ई-निविदा आई0डी0- 2026_UPCDS_1146546_1 द्वारा सी0एण्ड डी0एस0 में पंजीकृत ठेकेदारों से दिनांक 22.05.2026 के अपरान्ह 17.00 बजे तक ई-निविदाएं आमन्त्रित की गई है, जिसके बिड डाक्यूमेण्ट के अन्तर्गत अपरिहार्य कारणोंवश संशोधित SCHEDULE-G (B.O.Q.) अपलोड किया जा रहा है। जिसकी कुल लागत 213.59 लाख है। उक्त के अतिरिक्त समस्त शर्तें एन0आई0टी0 के अनुसार यथावत् रहेगी।

समस्त शुद्धि पत्र (corrigendum) <http://etender.up.nic.in> पर ही अपलोड किये जायेंगे, इनका पृथक से कोई प्रकाशन नहीं किया जायेगा। निविदादाताओं को सलाह दी जाती है कि वे उक्त वेबसाइट का समय-समय पर अवलोकन करते रहें।

संलग्न:- SCHEDULE-G (B.O.Q.)


परियोजना प्रबन्धक

CONSTRUCTION OF PASHU PRAJNAN NIYANTRAN KENDRA(A.B.C. CENTRE) IN DISTT FATEHPUR

BILL OF QUANTITY

S.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
	ANIMAL BIRTH CONTROL CENTRE				
	UPTO PLINTH LVL				
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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	210.73	CUM	185.46	39080.77
2	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 and for all lift.	147.51	CUM	139.65	20598.86
3	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	46.64	CUM	499.09	23279.49
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 sand : 8 graded stone aggregate 40mm nominal size)	37.03	CUM	4853.39	179704.70
5	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	22.52	CUM	1513.12	34073.48
6	Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor: With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	222.08	SQM	220.90	49058.18
	Treatment of masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole,With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	222.08	SQM	30.64	6803.75
7	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Plinth band)				
	All works upto plinth level	6.94	CUM	6444.88	44727.60
8	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Footing)				
	All works upto plinth level	3.13	CUM	6444.88	20150.56

9	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Column)				
	All works upto plinth level	1.74	CUM	6444.88	11222.90
10	First class Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	108.80	CUM	5081.56	552858.67
11	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size)	28.31	SQM	292.72	8286.96
12	Painting on D.P.C. with two coat of air blown bitumen 85/50 or 85/25 1.7 kg/sqm approximate including cost of fuel if any.	28.31	SQM	104.13	2947.89
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.	15.95	QTL	7684.05	122594.20
14	15 mm thick plinth plaster [1 cement : 4 coarse sand]	69.40	SQM	293.36	20359.03
15	Centering and shuttering including strutting, propping etc. and removal of form for :				
a)	Foundations, footings, bases of columns, etc. for mass concrete	11.98	SQM	279.40	3348.02
b)	Columns, Pillars, Piers, Abutments, Posts and Struts	20.85	SQM	684.90	14277.60
c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	59.18	SQM	524.67	31048.76
					1184421.42
	ABOVE PLINTH LVL.				
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).				
	R.C.C. Lintel				
(a)	Ground & First Floor	8.35	CUM	8197.39	68446.04
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).				
	R.C.C. Slab				
(a)	Ground & First Floor	51.36	CUM	8197.39	421018.10
3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).				

	R.C.C. Beam				
(a)	Ground & First Floor	6.83	CUM	8197.39	56023.73
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)-(Column)	4.75	CUM	7732.47	36744.68
5	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)				
(a)	Ground & First Floor	136.67	CUM	6487.77	886672.60
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in Super structure in : cement mortar 1:4 (1 cement : 4 coarse sand) above floor V level for every four floors or part there of by mechanical means. & Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.				
(a)	Ground & First Floor	109.07	SQM.	875.35	95477.93
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars of grade Fe-500D or more.				
(a)	Ground & First Floor	79.78	QTL	7684.05	613005.39
8	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)				
(a)	Ground & First Floor	692.04	SQM	281.68	194931.32
9	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)				
(a)	Ground & First Floor	713.33	SQM	244.84	174653.19
10	12mm thick plaster in 1:3 on ceiling and soffits of stairs upto floor two level.				
(a)	Ground & First Floor	332.50	SQM		
11	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge : 15 mm wide and 15 mm deep groove	137.96	RM	53.54	7386.73
12	Providing and fixing 18 mm thick (Granite) gang saw cut, mirror polished,premoulded and prepolished, machine cut for kitchen platforms, vanitycounters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cementmortar 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.Area of slab over 0.50 sqm				
(a)	Ground & First Floor	35.58	SQM	3659.49	130196.44
13	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.Granite work				
(a)	Ground & First Floor	56.82	RM	364.04	20684.73

14	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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 600x600 mm				
(a)	Ground Floor	161.04	SQM	1106.80	178236.53
15	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 600x600 mm				
(a)	Ground & First Floor	22.48	SQM	1156.38	25994.36
16	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : :25 mm thick				
(a)	Ground & First Floor	85.54	SQM	1388.08	118738.91
17	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	12.21	SQM	1677.67	20486.83
18	Providing and fixing 1st quality ceramic glazed floor 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: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.				
(a)	Ground & First Floor	28.69	SQM	792.77	22745.86
19	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 : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.				
(a)	Ground & First Floor	143.45	SQM	903.38	129591.34
20	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (25 mm thick floor).	42.40	SQM	332.50	14097.67

21	Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junctions and corners, 25 mm dia pulley, 40x40x6 mm angle and Tiron guide at the top and bottom respectively, including applying a priming coat of approved steel primer	2.40	SQM	4678.26	11227.82
22	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. (Laminated)				
	(a) Single leaf	36.09	SQM	2475.03	89324.01
	(b) Double leaf	10.80	SQM	2551.06	27551.41
	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	46.89	SQM	329.41	15446.19
23	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	36.80	KG.	100.96	3715.25
24	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	1000.72	KG.	139.08	139175.18
25	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	22.28	SQM	758.54	16896.43
26	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)				
(a)	Ground & First Floor	713.33	SQM	121.90	86958.13
27	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre. (For Internal wall surface & ceiling)				
(a)	Ground & First Floor	1024.54	SQM	132.27	135517.38

28	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
(a)	Ground & First Floor	1737.87	SQM	111.18	193219.78
29	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete.	21.00	NOS.	195.54	4106.32
30	Providing & fixing Stainless steel sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc complete. (a) 250mm x 16mm .	21.00	NOS	522.50	10972.50
31	Providing and fixing stainless steel towerbolts (barrel type) with necessary screws etc. complete				
	(a) 250 mm x 10mm	21.00	NOS	418.00	8778.00
32	Providing and fixing stainless steel handles with screws etc. complete (a) 125 mm	42.00	NOS	213.75	8977.50
33	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to				
	IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick				
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	204.39	SQM	1200.24	245318.92

34	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.	160.60	KG	550.32	88380.83
35	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level :1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	0.66	CUM	5613.24	3719.80
36	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Ordinary cement without any pigment	9.00	SQM	998.89	8990.02
37	Providing & laying of light cinder filling under floor of toilets & other sunken roofs.	3.98	CUM.	1971.34	7838.25
38	Providing & applying 100% solids, flexible, elastomeric, UV stable, 2 component, waterproof, fast setting, monolithic, hydrophobic in nature, NO-VOC, CFTRI-US-FDA-175-300 coating on prepared surface as following :- P/L DONCRETE/EQUIVALENTPP solvent free primer @ 100gsm per m2 for conjunction of DONCRETE/EQUIVALENT PU conforming to ASTM-D-2369 C, ASTM-D-2369, ASTM-D-638, ASTM-D-4541, ASTM-D- 638, ASTM-D- 2240, ASTM-E-96, ASTM-B-117-73, ASTM-D-91, ASTM-D-624, ASTM-D-4060, ASTM-C-8, ASTM-D-512, ASTM-G-53, ASTM-3912 @ 1 Ltr per m2 for 1.00 mm thick. The coating shall be carried out in single application with multiple passes, using high pressure plural component reactor strictly as per manufacture specification, rate materials, labor, and tools. Surface preparation includes repairs of holes, cracks, voids, pinholes, bug holes. Joints shall be filled with epoxy putty Confirming the ASTM D 638, ASTM D 4541, and ASTM D 2369. The corner rounding/angle fillet shall be prepared/replaced as required to smooth transition of coating from horizontal to vertical surfaces	18.63	SQM	902.50	16815.63
39	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats, square or round bars etc. all complete. Fixed to Steel windows by welding	311.85	KG	156.10	48680.88

40	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)				
	Providing & fixing of Z-section windows.	334.13	KG	93.37	31197.25
41	Steel Painting:				
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	50.41	SQM	48.02	2420.68
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	50.41	SQM	161.20	8125.81
42	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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) .				
	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. With float glass panes of 5.0 mm thickness.				
	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm				
	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). (a) Sal wood	61.38	RM.	1040.31	63854.29
43	Supply & Fixing of 8 mm thick toughened Glass for windows the glass make of Saint Gobincomplete with all labour & material.	21.14	SQM.	2280.00	48208.32

44	Supply & Fixing of 12 mm thick toughened Glass doors the glass make of Saint Gobin frameless with all necessary hardware and locking device complete with all labour & material and including Glass film as per approved design.(accessories shall be of Ozone/Rinox or Equivalent Make)	6.12	SQM.	13775.00	84303.00
45	Fixing UniStone CFP – Clay Façade Paneling system in approved shade, finish, size and in thickness of 15mm. The clay panels shall have Flexural Strength /Modulus of rupture ≥ 9 N /mm ² in accordance to ISO – 10545 -4 with breaking strength ≥ 550 N in accordance to ISO 10545-4. The panels should have water absorption ≤ 4 % in accordance to ISO – 10545-3. The surface scratch hardness value i.e., Moh’s scale should be Minimum 6 in accordance to ISO -10545-2. The clay panels should have inherent properties of being resistant to stains and chemicals. The material should be Class I material in terms of reaction to fire in accordance to EN 13501-1 / ASTM E136. The entire system should be certified by an approved third-party structural consultant for a minimum structural proof load test with positive & negative wind pressure of 5kPA.				
	The cladding panels shall be fixed on to existing cured plastered surface substrate wall treated with one or two coats of primer with appropriate Aluminum rectangular hollow section vertical members framework of 25mm X 50mm (2mm thick) which shall be spaced out in accordance to the dimensions of the panel with minimum spacing of 600mm. The framework shall be attached through L shaped aluminum connectors of 25mm X 37mm (2mm thick) to the substrate walls. The manufactured panels shall have an evenly controlled factory – made groove for resting on to a continuous aluminum rail profiles throughout their length. The profiles are designed and manufactured for starter piece, intermediate and an inverted starter profile for the top piece. Aluminum rail profile shall ensure uniform and precision				
	joints and shall be factory finished with Super Durable powder coated colour in approved RAL shade. All fixtures, and screws shall be corrosion free i.e., all rail profiles, cleats to be used should be made of 6063 T6 alloy grade and all screws used should be of Stainless steel of M/s Hilti, Worth, Klimas, Patta or equivalent. The groove of the width can be chosen i.e., 1.7mm, 3mm, 6.5mm, 12.6mm or 20mm. The corners junctions to be neatly treated with adequate aluminum closed ‘L’ corner shaped pieces in required length in similar shade coated with factory finished Super Durable Powder, to the clay façade panel. Alternatively, the corners junctions can be treated as regular corner fixing or Mitred corner fixing. All fixing details and drawings to be provided by vendor and to be duly approved by Engineer in charge at project and the work to be carried out as per direction of the Engineer- in charge.				
	Size: 600mm x 1200mm Shade: Terracotta	13.51	SQM	6644.30	89747.88

46	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Columns, Pillars, Piers, Abutments, Posts and Struts.	63.36	SQM	686.33	43485.75
(b)	Suspended floors, roofs, landings, balconies and access platform.	379.58	SQM	660.64	250768.95
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	123.24	SQM	524.67	64657.91
	TOTAL				5073512.45
	Plumbing Work				
	SUB HEAD-I-SANITARY INSTALLATIONS				
1	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 white solid plastic seat and lid	5.00	Each	4641.87	23209.33
2	Providing & fixing toilet paper holder				
	C.P. brass	5.00	Each	572.58	2862.90
3	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	5.00	Each	248.74	1243.72
4	Providing and fixing Jaquar Make Hand Shower (Health Faucet) with 8mm Dia, 1.2 Meter Long Flexible Tube & Wall Hook of quality and make as approved by Engineer - in - charge.	5.00	Each	1548.50	7742.50
5	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	6.00	Each	1586.12	9516.70
6	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	6.00	Each	737.22	4423.33
7	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	6.00	Each	119.94	719.62
8	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	6.00	Each	165.25	991.49
9	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	6.00	Each	1145.55	6873.30
10	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 (including angle valve for WC flushing cistern & jet)				
	15 mm nominal bore	21.00	Each	409.15	8592.11

11	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm nominal bore	16.00	Each	69.64	1114.24
12	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
	100 mm diameter	2.00	Each	138.18	276.35
13	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm nominal bore	2.00	Each	477.65	955.30
14	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	2.00	Each	505.08	1010.15
15	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	2.00	Each	79.40	158.80
16	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 200 mm	1.00	Each	5100.28	5100.28
17	Providing & fixing PVC waste pipe for sink including PVC waste fittings Complete				
	Flexible Pipe				
	32mm Dia	1.00	Each	85.17	85.17
18	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
	15mm nominal bore	5.00	Each	361.06	1805.30
19	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	4.00	Each	569.20	2276.78
20	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	9.00	Each	53.29	479.61
21	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. (Including C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia)	2.00	Each	5833.51	11667.02

22	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.				
	Granite Stone of approved shade	0.83	sqm	2886.66	2381.49
	TOTAL OF SUBHEAD-I			Rs.	93485.48
2.0	SUB HEAD-II-WATER SUPPLY				
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
	Concealed work , including cutting chases and making good the walls etc.				
	For Internal Toilet				
	15 mm nominal outer dia Pipes	8.69	Metre	354.65	3081.88
	20 mm nominal outer dia Pipes	36.08	Metre	383.00	13818.71
	25 mm nominal outer dia Pipes	4.40	Metre	446.87	1966.23
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	Internal work - Exposed on wall				
	20 mm nominal bore	17.60	Metre	238.66	4200.48
	25 mm nominal bore	39.60	Metre	286.08	11328.60
3	Providing and fixing GI pipes complete with GI fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on Wall				
	Terrace loop & Tank Filling Pipe				
	20 mm nominal bore	27.50	Metre	311.55	8567.49
	25 mm nominal bore	22.00	Metre	393.05	8647.04
	32mm nominal bore	22.00	Metre	475.19	10454.18
	40mm nominal bore	55.00	Metre	578.42	31813.16
	50 mm nominal bore	22.00	Metre	746.87	16431.25
4	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
	20mm diameter pipe	27.50	Metre	10.29	283.10
	25mm diameter pipe	22.00	Metre	13.07	287.61
	32mm diameter pipe	22.00	Metre	15.82	347.95
	40mm diameter pipe	55.00	Metre	17.99	989.39
	50mm diameter pipe	22.00	Metre	21.73	478.04
5	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
	20mm diameter pipe	9.17	Each	247.07	2264.81
	25mm diameter pipe	7.33	Each	312.93	2294.85

	32mm diameter pipe	7.33	Each	348.41	2555.03
	40mm diameter pipe	18.33	Each	449.76	8245.53
	50mm diameter pipe	7.33	Each	586.90	4303.93
6	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	For vertical pipe connection with terrace ringmain				
	20 mm nominal bore	2.00	Each	384.68	769.35
	25mm nominal bore	4.00	Each	443.42	1773.66
	32mm nominal bore	1.00	Each	491.29	491.29
	40mm nominal bore	4.00	Each	588.54	2354.15
	50mm nominal bore	3.00	Each	731.42	2194.25
7	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
	25 to 40 mm nominal bore	11.00	Each	649.66	7146.30
	50 to 80 mm nominal bore	3.00	Each	1271.94	3815.81
8	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball.				
	40 mm nominal bore, 206 mm long, weighing not less than 690 gms	1.00	Each	525.20	525.20
9	Providing and placing on terrace (at all floor levels) polyethylene water storage tank , IS : 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.	5000.00		7.84	39183.59
			per litre		
	TOTAL OF SUBHEAD-II			Rs.	190612.87
	SUB HEAD : III - ROOFING				
1	Providing and fixing on wall face unplasticised 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 dia (for rain water)	45.00	Metre	268.87	12099.18
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised 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.				
	Single Push Fit Coupler				
	110 mm dia	15.00	Each	90.91	1363.59
	Single tee with door				
	110x110x110 mm	3.00	Each	166.82	500.45
	Plain bend 87.5 deg				
	110 mm dia	6.00	Each	107.11	642.68
3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm dia	22.50	Each	264.52	5951.81

4	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	3.00		212.48	637.45
			Each		
5	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	All kind of soil				
	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	15.00	Metre	250.88	3763.23
6	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	100mm dia SW pipe	15.00	Metre	687.32	10309.74
	TOTAL OF SUBHEAD-III			Rs.	35268.12
	SUB HEAD : IV - INTERNAL DRAINAGE				
1	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes.				
	Internal Toilet (Soil & Waste Pipe)				
	75 mm	23.10	Metre	479.75	11082.23
	110 mm	22.11	Metre	679.25	15018.22
	Exposed on Wall (Soil & Waste Pipe)				
	110 mm	45.00	Metre	679.25	30566.25
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.				
	Bend without door (45°)				
	75mm	11.00	Each	128.25	1410.75
	110mm	5.00	Each	209.00	1045.00
	Bend without door (87.5°)				
	75mm bend	11.00	Each	142.50	1567.50
	110mm	10.00	Each	247.00	2470.00
	Y' Fitting without door				
	75mm	11.00	Each	218.50	2403.50
	110mm	5.00	Each	394.25	1971.25
	Single Tee without door				
	75mm	11.00	Each	213.75	2351.25
	110 mm	5.00	Each	346.75	1733.75
	Single Tee with door				
	75mm	4.00	Each	242.25	969.00
	110 mm	5.00	Each	403.75	2018.75
	Bend with door (87.5°)				

	75mm	4.00	Each	175.75	703.00
	110 mm	5.00	Each	294.50	1472.50
	Reduced 'Y' Fitting without door				
	110mm x 75mm	2.00	Each	318.25	636.50
	Reduced Tee with door				
	110mm x 75mm	4.00	Each	351.50	1406.00
	Coupler				
	75mm	7.70	Each	133.00	1024.10
	110mm	22.37	Each	209.00	4675.33
	Vent Cowl				
	110mm	3.00	Each	85.50	256.50
3	Providing, fixing, jointing and testing, unplasticized PVC pipes - 10 kg/cm2 confirming to IS : 4985 to wall, ceiling and floor, approved quality, complete, for waste water drain including jointing with rubbering/solvent/solution and airtight joints, etc.				
	For Wash basin & Urinal				
	32mm dia. Pipe	18.48	Metre	175.75	3247.86
	50mm dia. pipe	5.72	Metre	327.75	1874.73
	Elbow (45°)				
	32mm	4.00	Each	42.75	171.00
	50mm	2.00	Each	66.50	133.00
	Elbow (90°)				
	32mm	6.00	Each	38.00	228.00
	50mm	2.00	Each	80.75	161.50
	T fitting				
	32mm	4.00	Each	42.75	171.00
	50mm	2.00	Each	95.00	190.00
	Coupler				
	32mm	6.16	Each	33.25	204.82
	50mm	1.91	Each	57.00	108.68
4	Providing, fixing, jointing and testing , of PVC Multi Floor Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.				
	110mm x 75mm x 50mm/40mm (Toilet)	6.00	Each	1159.00	6954.00
5	Providing, fixing, jointing and testing , of PVC Nahani Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.				
	110mm x 75mm (Toilet & Kitchen)	5.00	Each	1092.50	5462.50
6	Providing and fixing PTMT grating of approved quality and colour.				
	Rectangular type with openable circular lid				
	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	11.00	Each	140.31	1543.44
7	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	150 x 100mm size P-type				

	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	3.00	Each	1947.92	5843.77
8	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:				
	100 mm diameter	6.00	Metre	316.03	1896.20
9	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	All kind of soil				
	Pipes, cables etc. exceeding 80 mm dia . But not exceeding 300mm dia.	20.00	Metre	250.88	5017.64
10	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
	100mm dia SW pipe	20.00	Metre	687.32	13746.32
	TOTAL OF SUBHEAD-IV				131735.83
	FIRE FIGHTING SYSTEM				
1	Supply and fixing of C02 type fire extinguisher 4.5 kg. capacity (ISI Marked IS : 2878 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	2	Each	11381.00	22762.00
2	Supply and fixing of fire extinguisher, ABC Type 6.00 kg. capacity (ISI Marked IS : 15683 & TAC approved) complete with initial charge and wall bracket, along with supply of all materials and labour for proper completion of work.	2	Each	8645.00	17290.00
3	Providing and fixing Fire related signages printed on photoluminescent U1000 aluminium sheet of 1.0 mm (+-10%) containing Lumigen II as base chemical, covered under UV stablized coating and of appropriate size including fixing on wall, door, ceiling etc. with proper clamps, hangers, cleats, anchor fasteners etc. complete in all respects as directed by Engineer-in-charge.	2	Nos.	950.00	1900.00
	TOTAL				41952.00
	INTERNAL ELECTRICAL WORKS				
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR 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/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	59.00	Point	1222.19	72109.45

2	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	40.00	Point	712.95	28517.86
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				0.00
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	161.90	Metre	191.51	31004.78
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	85.00	Metre	223.06	18960.50
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	510.00	Metre	267.53	136442.47
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	60.00	Metre	583.12	34987.46
	4 x 10 sq.mm + 2 x 6 sq.mm. earth wire	90.00	Metre	773.20	69587.60
4	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	17.00	Each	390.90	6645.32
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	17.00	Each	472.67	8035.35
6	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	4.00	Each	578.82	2315.28
7	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	12.00	Each	288.33	3460.01
8	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	3.00	Each	33.71	101.13
9	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	17.00	Each	86.79	1475.38
	3 pin 5/6 A socket outlet	17.00	Each	97.55	1658.28
10	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	60.00	Each	74.59	4475.64
11	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	0.00	Each	108.30	0.00
12	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	12.00	Each	0.00	0.00

13	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	12.00	Each	38.01	456.17
	TOTAL				420232.69
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
14	LED Panel light 2x2 ft., (System lumen efficacy>135 lm/Watt)				
	Supplying, installation, Testing & Commissioning of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140- 270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 degcentigrade, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-				
	36 watt	4.00	Each	2866.85	11467.39
15	LED Down lighter (SMD Type) (System lumen efficacy >135lm/Watt)				
	Supplying, Installation, Testing & Commissioning of LED Recessed/surface Down lighter (Round /square/Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K/ 4000°K /5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape				
	8-10 watt	14.00	Each	471.23	6597.27
	12-15 watt	12.00	Each	542.24	6506.89

16	LED Batten light (System lumen efficacy >135 lm/Watt)				
	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall				
	18- 22 Watt	38.00	Each	564.48	21450.08
17	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	4.00	Each	2318.08	9272.30
18	Supplying of LED mirror light luminaire with 10W watt complete with electronic ballast, lamp including connection etc. complete as required, Including connection with 1.5 sqmm FRLS PVC insulated copper conductor.	5.00	Each	636.31	3181.55
19	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy >135lm/Watt)				
	Supplying, Installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F.≥0.95, IP-66,IK-10, CRI >70, under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved				
	50 watt	5.00	Each	1498.34	7491.68

21	Brush Less Direct Current (BLDC) Fan with Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.	12.00	Each	1932.99	23195.87
22	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				
	300mm EXHAUST FAN	5.00	Each	3326.43	16632.17
	TOTAL				105795.20
	SUBHEAD- III: DISTRIBUTION BOARD				
23	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required				
	63 A,25KA,FP MCCB	2.00	Each	13166.67	26333.34
	100 A,30KA,FPMCCB	2.00	Each	5829.09	11658.18
	125 A,36KA,FPMCCB	2.00	Each	6199.91	12399.82
	160 A,36KA,FPMCCB	2.00	Each	6199.91	12399.82
24	Supplying and fixing following way ,single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	12 way, Double Door	1.00	Nos.	2059.22	2059.22
25	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	6 way Double door	2.00	Nos.	3800.71	7601.42
26	Supplying and fixing TP/FP sheet steel enclosure on surface/ recess. Suitable for upto 125 A 415 V MCCB complete with connections, testing and commissioning etc. as required.	6.00	Each	2850.00	17100.00
27	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	40 amps 4P MCB	2.00	Each	3462.05	6924.09

28	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. As required.				
	25 amps	6.00	Nos	1535.63	9213.79
29	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	36.00	Nos.	204.42	7358.99
	Triple pole and neutral	1.00	Nos.	933.14	933.14
30	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	3.60	Each	10.04	36.15
31	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	4.00	Each	902.30	3609.20
32	Supplying and fixing 4P sheet steel enclosure on surface/ recess complete with connections, testing and commissioning etc. as required.	4.00	Each	863.48	3453.93
33	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.				
	90 mm dia (OD-90 mm & ID-76 mm nominal)	10.00	Metre	131.26	1312.57
	TOTAL			86905.15	122393.66
	SUB-HEAD -VI- TELEPHONE & LAN SYSTEM				
34	Supplying, drawing, connecting and testing of 0.5 mm dia annealed copper conductor PVC insulated PVC sheathed telephone wire in existing conduit/wire way duct etc. as required of following sizes:				
a.	2 Pair (4 core)	120.00	Metre	27.97	3356.73
35	Providing, laying, connecting and testing of multi-core telephone armoured cable of conductor size 0.5mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable along wall or ceiling or through existing pipe.				
	10 Pair telephone cable	50.00	Metre	389.50	19475.00
36	Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.				
	10 pair tag block	1.00	Each	4636.15	4636.15
37	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a)	20mm dia PVC conduit	120.00	Metre	108.30	12996.57
b)	25mm dia PVC conduit	18.00	Metre	120.50	2168.96
c)	32mm dia PVC conduit	12.00	Metre	149.91	1798.86
38	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required				

	1 or 2 Module (75mmX75mm)	17.00	Each	253.91	4316.41
39	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	Telephone socket outlet	8.00	Each	120.50	963.98
	TV antenna socket outlet	1.00	Each	120.50	120.50
	RJ-45 Data Socket outlet	8.00	Each	850.73	6805.88
40	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5° to +60°C, Bending Radius : < 4 X Cable Diameter at -5°C ± 1°C and Pulling Force : 11.5Kg etc. complete as required.				
	1 run of cable	240.00	Metre	43.04	10328.40
41	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	30.00	Metre	38.73	1161.95
	TOTAL RS.				68129.39
	SUB-HEAD -V : L.T. CABLES				
42	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required				
	Above 95 sq.mm. and upto 185 sq.mm.	120.00	Meter	69.57	8348.79
43	Supply of following siz of 1.1KV grade multicore aluminium conductor XLPE insulated and PVC shethed armoured cable as per IS 7098:1988 with up to date amendment				
	3.5 x 50 sq.mm	120.00	Metre	665.95	79914.00
44	Supplying and making cable end terminations with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.				
	3½ X 50 sq. mm (35mm)	2.00	Each	347.15	694.30
45	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
	100 mm dia	10.00	Meter	1375.69	13756.86
46	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) 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.				
	100mm dia	12.00	Metre	553.00	6636.00
47	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				

	90 mm dia (OD-90 mm & ID-76 mm nominal)	15.00	Metre	241.00	3614.94
	TOTAL				112964.88
	EXTERNAL SEWERAGE & WATER SUPPLY WORK				
I	COST OF SEWERAGE WORKS				
1	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	up to 1.50 m depth				
	Pipes 80 mm to 300 mm diameter	120	metre	250.88	30105.82
	1.50 m to 3.00 m depth				
	Pipes 80 mm to 300 mm diameter	60	metre	250.88	15052.91
2	Open timbering in trenches including shuttering and shoring complete. (Measurement to be taken of the face area timbered)				
	Depth not exceeding 1.5 meter	360	Sqm	51.33	18478.98
	Depth 1.5 to 3.00 meter	360	Sqm	58.13	20928.31
3	Providing and laying Non pressure NP 2 class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc. complete.				
	150 mm. dia. RCC Pipes	120	metre	396.43	47571.73
4	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40mm nominal size) upto the haunches of pipes including bed concrete as per standard design				
	150 mm. dia. RCC Pipes	120	metre	529.41	63528.72
5	Constructing brick masonry manhole in cement mortar 1:4 (1 cement :4 coarse sand) RCC top slab with 1:2:4 mix (1 cement :2 coarse sand :4 graded stone aggregate 20mm 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 fo neat cement and making channels in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20mm nnominal size) finished with a floating coat of neat cement complete as per standard design.				
	Inside size 90x80cms and 45cms deep including CI cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15kg).				
	With common burnt clay FPS (non modular) bricks of class designation 75				
	(i) For Sewer Line	12	each	9098.11	109177.32
	Extra for depth for manholes:				
	Size 90x80cm with With common burnt clay FPS (non modular) bricks of class designation 7.5	6	metre	6287.47	37724.82

6	Providing orange colour safety foot rests of minimum 6 mm thick plastic encapsulated as per IS:10910 on 12 mm dia steel bar conforming to IS:1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm thread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	12	each	394.47	4733.66
TOTAL COST OF SEWERAGE					347302.28
II COST OF EXTERNAL WATER SUPPLY WORKS					
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	40mm nominal bore.	100	Rm.	439.60	43960.43
	32mm nominal bore.	30	Rm.	384.93	11547.76
	25mm nominal bore.	30	Rm.	333.24	9997.16
	20mm nominal bore.	20	Rm.	262.60	5252.03
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	40mm nominal bore.	1	Nos.	588.54	588.54
	32mm nominal bore.	1	Nos.	491.29	491.29
	25mm nominal bore.	1	Nos.	443.42	443.42
	20mm nominal bore.	1	Nos.	384.68	384.68
3	Providing and fixing gun metal non- return valve of approved quality (screwed end) : (horizontal)				
	40mm nominal bore.	1	Nos.	678.66	678.66
4	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	2	Each	1419.59	2839.17

5	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	Each	7738.69	15477.38
	TOTAL COST OF EXTERNAL WATER SUPPLY WORKS				91660.51
	RAIN WATER HARVESTING				
I	<u>RAIN WATER HARVESTING</u>				
	<u>RECHARGE PITS</u>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width aswell as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-in-charge.				
(A)	In all kind of soil upto 1.5m depth	22.59	Cum	126.46	2856.64
(B)	In all kind of soil upto 1.5m to 3.0m. depth	22.59	Cum	216.79	4897.33
(C)	In all kind of soil upto 3.0m to 4.5m. depth	22.59	Cum	307.13	6938.02
(D)	In all kind of soil upto 4.5 m to 6.0m. depth	10.54	Cum	397.46	4189.27
2	Providing and laying in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded Stone aggregate 20 mm nominal size) and curing complete,including cost of form- work,in foundation and floors.	1.2	Cum	5612.87	6735.45
3	Class M-150 brick work in 1:4 cement coarse sand mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	24.14	Cum	5251.06	126760.70
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	1.61	Cum	6444.45	10375.57
4,a	Suspended floors, roofs, landings, balconies and access platform.	10.746	Sqm.	660.60	7098.81
5	Providing & Fixing Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	1.9	qtl.	7630.11	14497.22
6	12mm cement plaster on rough side of single or half brick wall mix				
	1:3 (1 cement : 3 Coarse sand)	46.16	Sqm	312.93	14445.05
7	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) as per standard design:				
	With 20x20mm square bar	10	Nos.	388.06	3880.60

8	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	1	No.	835.39	835.39
9	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	Drilling of 300mm dia bore hole manually.	15	M	588.25	8823.79
10	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
	150 mm nominal size dia	15	M	575.25	8628.76
11	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	12.13	cum	1075.63	13047.33
12	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	13.11	cum	1095.89	14367.17
13	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge.	13.11	cum	1095.89	14367.17
14	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	1	Cum	1442.31	1442.31
	<u>DESILTING CHAMBER</u>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width aswell as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-incharge.				
(a)	In all kind of soil upto 1.5m depth	10.05	Cum	126.46	1270.88
(b)	In all kind of soil upto 1.5m to 3.0m. depth	4.06	Cum	216.79	880.18
2	Providing and laying in cement concrete 1:2:4 (1 cement :2 coarse sand :4 graded Stone aggregate 20 mm nominal size) and curing complete,including cost of form- work,in foundation and floors.	1.04	Cum	5612.87	5837.39
3	Class M-150 brick work in 1:4 cement coarse sand mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	3.52	Cum	5251.06	18483.75
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	1.38	Cum	6444.45	8893.35
4,a	Suspended floors, roofs, landings, balconies and access platform.	7.27	Sqm.	660.60	4802.56

5	Providing & Fixing Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	1.63	QTL	7630.11	12437.09
6	12mm cement plaster on rough side of single or half brick wall mix				
	1:3 (1 cement : 3 Coarse sand)	17.6	Sqm	312.93	5507.65
7	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) as per standard design:				
	With 20x20mm square bar	12	Nos.	388.06	4656.72
8	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	2	No.	835.39	1670.79
	COST OF EACH RAIN WATER HARVESTING				328626.94
	TOTAL NO. OF RAIN WATER HARVESTING	1	No.	328626.94	328626.94
	TOTAL COST OF RAIN WATER HARVESTING				
II	DRAINAGE NETWORK				
1	Excavating trenches by mechanical / manual means of required width for pipes cables etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth including getting out the excavated soil , and then returning the soil as required , in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed , within a lead of 50 m.				
	up to 1.50 m depth				
	Pipes 80 mm to 300 mm diameter	50	metre	250.88	12544.09
2	Providing and laying Non pressure NP 2 class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1cement : 2 fine sand) including testing of joints etc. complete.				
	150 mm. dia. RCC Pipes	50	metre	396.43	19821.56
3	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40mm nominal size) upto the haunches of pipes including bed concrete as per standard design				
	150 mm. dia.	50	metre	529.41	26470.30
4	Constructing brick masonry INSPECTION chamber 60x60x75 cm with bricks of class designation 50 in cement mortar 1:4 (1 cement : 4 coarse sand) including CI cover with frame LIGHT WEIGHT complete as per design. With FPS bricks	4	Nos.	6798.37	27193.47
	TOTAL COST OF DRAINAGE WORKS (DSR AMOUNT)				86029.42
	COMMUNITY KENNEL - 10 NOS. (12 dogs/kennel)				
	CIVIL WORKS				

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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	62.27	CUM	185.46	11548.44
2	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	0.00	CUM	499.09	0.00
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work,in foundation and floors.	9.12	CUM	4853.39	44262.89
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	5.73	CUM	1513.12	8670.18
5	Treatment of soil under existing floors using chemical emul sion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	65.51	SQM	220.90	14471.37
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
	R.C.C. Work in Plinth band	2.02	CUM	6444.88	13018.66
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - LINTEL & BEAM				
(a)	Up to plinth level	0.99	CUM	6444.88	6380.43
(b)	Above plinth level	3.62	CUM	8197.39	29674.56
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
	R.C.C. Work in Footing	2.68	CUM	6444.88	17275.50
9	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - Column				
(a)	Up to plinth level	1.07	CUM	6444.88	6882.42
(b)	Above plinth level	2.16	CUM	7732.47	16702.13

10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - Slab	8.19	CUM	8197.39	67136.65
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	25.61	QTL	7684.05	196826.73
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	23.50	CUM	5081.56	119416.59
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	3.21	SQM	292.72	939.63
14	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	3.21	SQM	104.13	334.25
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	7.15	CUM	6487.77	46387.56
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	68.71	SQM	281.68	19354.05
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	109.70	SQM	244.84	26859.21
18	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	125.98	SQM	132.27	16663.52
19	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	109.70	SQM	83.29	9136.74
20	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1446.84	KG	122.97	177922.78
21	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	106.02	Sqm	161.20	17090.18

22	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	57.27	SQM	437.60	25061.51
23	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.18 mm thick	8.01	SQM	471.69	3778.27
24	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.40 mm wide and 4 mm thick	200.45	RM	65.37	13103.35
25	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	10.55	RM	320.29	3379.10
26	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to				
	IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick				
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	62.82	SQM	1200.24	75398.90
27	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	41.81	SQM	524.67	21936.87
b)	Foundations, footings, bases of columns, etc. for mass concrete	10.68	SQM	279.40	2983.97
c)	Columns, Pillars, Piers, Abutments, Posts and Struts	43.04	SQM	684.90	29477.23
d)	Suspended floors, roofs, landings, balconies and access platform.	65.51	SQM	660.64	43281.92

	COST OF 3 UNIT KANNEL				1085355.60
	COST OF 1 UNIT KANNEL				361785.20
	COST OF 10 UNIT KANNEL				3617851.99
	INTERNAL W/S AND SANITATION WORKS				
	SUB HEAD-I-SANITARY INSTALLATIONS				
1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	10.00	Each	569.20	5691.95
	TOTAL OF SUBHEAD-I			Rs.	5691.95
2.0	SUB HEAD-II-WATER SUPPLY				
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	20 mm nominal bore	15.00	Metre	262.60	3939.02
	25 mm nominal bore	15.00	Metre	333.24	4998.58
	32 mm nominal bore	25.00	Metre	384.93	9623.13
	40 mm nominal bore	15.00	Metre	439.60	6594.06
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	20 mm nominal bore	1.00	Each	384.68	384.68
	25 mm nominal bore	1.00	Each	443.42	443.42
	32 mm nominal bore	1.00	Each	491.29	491.29
	40 mm nominal bore	1.00	Each	588.54	588.54
3	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	2.00	Each	1419.59	2839.17
4	Constructing masonry Chamber 60x60x75 cm inside , in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	Each	7738.69	15477.38
	TOTAL OF SUBHEAD-II			Rs.	45379.27
	SUB HEAD : III - ROOFING				

1	Providing and fixing on wall face unplasticised 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 dia (for rain water)	20.00	Metre	268.87	5377.41
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised 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.				
	Single Push Fit Coupler				
	110 mm dia	6.67	Each	90.91	606.04
	Single tee with door				
	110x110x110 mm	5.00	Each	166.82	834.08
	Plain bend 87.5 deg				
	110 mm dia	10.00	Each	107.11	1071.14
3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm dia	10.00	Each	264.52	2645.25
4	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	5.00	Each	212.48	1062.41
TOTAL OF SUBHEAD-III					11596.33
INTERNAL ELECTRIFICATION WORK					
SUB-HEAD - I : INTERNAL WIRING					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR 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/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	20.00	Point	1222.19	24443.88
2	Wiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.	0.00	Point	1293.20	0.00

3	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				0.00
	Group -C	14.00	Point	712.95	9981.25
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				0.00
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	37.70	Metre	191.51	7219.77
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	2.50	Metre	223.06	557.66
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	20.00	Metre	267.53	5350.69
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	10.00	Metre	583.12	5831.24
	4 x 10 sq.mm + 2 x 6 sq.mm. earth wire	10.00	Metre	773.20	7731.96
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1.00	Each	390.90	390.90
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2.00	Each	472.67	945.34
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	0.00	Each	542.96	0.00
8	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	0.00	Each	578.82	0.00
9	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	0.00	Each	288.33	0.00
10	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	1.00	Each	33.71	33.71
11	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				0.00
	5/6 A switch	1.00	Each	86.79	86.79
	3 pin 5/6 A socket outlet	1.00	Each	97.55	97.55
12	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	24.00	Each	74.59	1790.26
13	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	0.00	Each	108.30	0.00

14	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	10.00	Each		0.00
15	Supplying and fixing extra down rod of 10 cm length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	2.00	Each	38.01	76.03
	TOTAL				64537.01
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
16	LED Batten light (System lumen efficacy >135 lm/Watt)				
	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall				
	18- 22 Watt	13.00	Each	564.48	7338.18
17	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	10.00	Each	2318.08	23180.76

18	Brush Less Direct Current (BLDC) Fan with Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.		Each	1932.99	
19	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				
	300mm EXHAUST FAN	1.00	Each	3326.43	3326.43
	TOTAL				33845.38
	SUBHEAD- III: DISTRIBUTION BOARD				
20	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	6 way Double door	1.00	Nos.	3800.71	3800.71
21	Supplying and fixing following rating, four pole, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required				
	40 amps 4P MCB	1.00	Each	3461.80	3461.80
	25 amps	3.00	Nos	1535.63	4606.90
22	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single pole	12.00	Nos.	204.42	2453.00
23	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	1.20	Each	10.04	12.05
24	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.				
	90 mm dia (OD-90 mm & ID-76 mm nominal)	30.00	Metre	131.26	3937.70
	TOTAL				18272.15
	SINGLE KENNEL - 15 NOS. FOR DOG CARE CENTRE				
	CIVIL WORKS				

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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	34.55	CUM	185.46	6407.56
2	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	0.00	CUM	499.09	
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work in foundation and floors.	4.23	CUM	4853.39	20529.83
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.01	CUM	1513.12	3041.37
5	Treatment of soil under existing floors using chemical emul sion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
	With Chlorpyrifhos/Lindane E.C. 20% with 1% concentration.	25.53	SQM	220.90	5639.66
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
	R.C.C. Work in Plinth band	1.37	CUM	6444.88	8829.49
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
(a)	Up to plinth level	1.13	CUM	6444.88	7282.71
(b)	Above plinth level	2.29	CUM	8197.39	18772.03
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) (Slab)	3.48	CUM	8197.39	28526.93
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	11.04	QTL	7684.05	84811.34
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	15.97	CUM	5081.56	81152.47
11	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	4.57	SQM	292.72	1337.73

12	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4.57	SQM	104.13	475.87
13	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	11.26	CUM	6487.77	73052.30
14	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	68.15	SQM	281.68	19196.31
15	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	64.40	SQM	244.84	15767.85
16	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	68.15	SQM	132.27	9014.28
17	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	64.40	SQM	83.29	5363.78
18	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	929.14	KG	122.97	114259.47
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	63.79	SQM	161.20	10282.80
20	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	20.07	SQM	437.60	8782.69
21	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.18 mm thick	5.99	SQM	471.69	2825.45
22	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	70.25	RM	65.37	4592.22
23	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	6.64	RM	320.29	2126.75

24	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to				
	IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick				
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	25.53	SQM	1200.24	30647.81
25	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	30.91	SQM	524.67	16216.94
b)	Suspended floors, roofs, landings, balconies and access platform.	27.89	SQM	660.64	18423.23
	COST OF 5 UNIT SINGLE KANNEL				597358.87
	COST OF 3 BLOCK SINGLE KANNEL	3.00	BLOCK	597358.87	1792076.62
	INTERNAL W/S AND SANITATION WORKS				
	SUB HEAD-I-SANITARY INSTALLATIONS				
1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	1.00	Each	569.20	569.20
	TOTAL OF SUBHEAD-I			Rs.	569.20
2.0	SUB HEAD-II-WATER SUPPLY				
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	20 mm nominal bore	10.00	Metre	262.60	2626.01

2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	20 mm nominal bore	1.00	Each	384.68	384.68
3	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	1.00	Each	1419.59	1419.59
	TOTAL OF SUBHEAD-II			Rs.	4430.28
	SUB HEAD : III - ROOFING				
1	Providing and fixing on wall face unplasticised 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 dia (for rain water)	4.00	Metre	268.87	1075.48
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised 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.				
	Single Push Fit Coupler				
	110 mm dia	1.33	Each	90.91	121.21
	Single tee with door				
	110x110x110 mm	1.00	Each	166.82	166.82
	Plain bend 87.5 deg				
	110 mm dia	2.00	Each	107.11	214.23
3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm dia	2.00	Each	264.52	529.05
4	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	1.00	Each	212.48	212.48
	TOTAL OF SUBHEAD-III				2319.27
	TOTAL				7318.74
	COST OF 3 BLOCKS	3	BLOCKS	7318.74	21956.206
	INTERNAL ELECTRIFICATION WORK				
	SUB-HEAD - I : INTERNAL WIRING				

1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR 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/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	2.00	Point	1222.19	2444.39
2	Wiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.	0.00	Point	1293.20	
3	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	5.00	Point	712.95	3564.73
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	4.00	Metre	191.51	766.02
	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	6.00	Metre	583.12	3498.75
	TOTAL				10273.89
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
5	LED Down lighter (SMD Type) (System lumen efficacy >135lm/Watt)				
	Supplying, Installation, Testing & Commissioning of LED Recessed/surface Down lighter (Round /square/Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K/ 4000°K /5700°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape				
	8-10 watt	5.00	Each	496.04	2480.18

6	Supplying of Bulkhead type light fitting complete with, wire guard, holder, electronic ballast 1 x 10 W lamp including connections etc.Including connection with 1.5 sqmm FRLS PVC insulated copper conductor as required.	2.00	Each	2440.08	4880.16
	TOTAL				7360.34
					17634.22
	COST OF 3 BLOCKS KANNEL	3.00	BLOCKS	17634.22	52902.67
	KITCHEN BLOCK				
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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	22.22	CUM	185.46	4120.87
2	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	0.00	CUM	499.09	0.00
3	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size) and curing complete, excluding cost of form- work,in foundation and floors.	2.79	CUM	4853.39	13540.95
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1.48	CUM	1513.12	2239.42
5	Treatment of soil under existing floors using chemical emul sion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	17.66	SQM	220.90	3901.15
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
	R.C.C. Work in Plinth band	0.73	CUM	6444.88	4704.76
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - LINTEL & BEAM				
(a)	Up to plinth level	0.43	CUM	6444.88	2771.30
(b)	Above plinth level	0.81	CUM	8197.39	6639.89
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size)				
	R.C.C. Work in Footing	0.67	CUM	6444.88	4318.88

9	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - Column				
(a)	Up to plinth level	0.27	CUM	6444.88	1720.40
(b)	Above plinth level	0.54	CUM	7732.47	4175.53
10	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size) - Slab	2.77	CUM	8197.39	22706.78
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	6.35	QTL	7684.05	48831.85
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	8.28	CUM	5081.56	42075.29
13	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	2.17	SQM	292.72	635.20
14	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.17	SQM	104.13	225.96
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	6.76	CUM	6487.77	43857.33
16	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	37.94	SQM	281.68	10686.84
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	48.34	SQM	244.84	11835.68
18	Distempering (Two coat) with oil bound distemper of approved brand and manufacture & of required shade on undecorated wall surface to give an even shade over & including a priming coat with cement primer of approved brand & manufacture such as Berger,J&N, Shalimar, Asian paints after thoroughly brushing the surface free from mortar droppings & other foreign matters & also including preparing the surface even with plaster of paris or approved synthetic material & sand papered smooth including cost of all materials. (For Internal wall surface)	52.72	SQM	132.27	6973.34
19	Finishing wall with water proof cement paint of approved make and quality on new wood with two coat to give an even shade including supply of all materials, labour, tools and plant etc. required for proper completion of the work. (Two Coat)	48.34	SQM	83.29	4026.16
20	M.S. work				

(a)	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	2.00	KG	100.96	201.92
(b)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats, square or round bars etc. all complete. Fixed to Steel windows by welding	29.16	KG	156.10	4551.98
(c)	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	32.40	KG	93.37	3025.19
(d)	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-in-charge.	13.52	KG	100.96	1364.95
21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	(a) 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. Single leaf.	2.10	SQM	1704.71	3579.88
22	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	2.88	Sqm	161.20	464.25
23	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	14.78	SQM	437.60	6467.77
24	Wooden Painting:				
	Applying priming coat: With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood.	4.20	SQM	53.18	223.35
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	4.20	SQM	998.89	4195.34

25	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	2.10	SQM	758.54	1592.93
26	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.18 mm thick	2.21	SQM	471.69	1042.45
27	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.40 mm wide and 4 mm thick	51.73	RM	65.37	3381.57
28	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 12 mm cement plaster	2.85	RM	320.29	912.84
29	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to				
	IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick				
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	13.85	SQM	1200.24	16623.28
30	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :. (a) 250mm x 16mm .	1.00	NOS	138.01	138.01
31	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	(a) 250 mm x 10mm	1.00	NOS	59.78	59.78
32	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete (a) 125 mm				
	(a) 125mm	2.00	NOS	28.46	56.93

33	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 : 3 coarse sand) and jointing with grey cement slurry @ 3.3k9 per sqm, Including pointing in white cement mixed with pigment of matching shade complete.	6.06	SQM	903.38	5474.51
34	Providing and fixing 18 mm thick (Granite) 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. Area of slab over 0.50 sqm	4.62	SQM	3659.49	16906.85
35	Centering and shuttering including strutting, propping etc. and removal of form for:				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	14.81	SQM	524.67	7769.80
b)	Foundations, footings, bases of columns, etc. for mass concrete	2.67	SQM	279.40	745.99
c)	Columns, Pillars, Piers, Abutments, Posts and Struts	10.76	SQM	684.90	7369.01
d)	Suspended floors, roofs, landings, balconies and access platform.	25.96	SQM	660.64	17148.82
	TOTAL				343284.95
	Internal w/s & sanitation works				
	SUB HEAD-I-SANITARY INSTALLATIONS				
1	Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 200 mm	1	Each	5100.28	5100.28
2	Providing & fixing PVC waste pipe for sink including PVC waste fittings Complete				
	Flexible Pipe				
	32mm Dia	1	Each	85.17	85.17
3	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	15mm nominal bore	1	Each	569.20	569.20
	TOTAL OF SUBHEAD-I			Rs.	5754.65
2.0	SUB HEAD-II-WATER SUPPLY				
1	Providing & fixing G.I. pipes complete with G.I. fittings including tenching and refilling etc. (external work)				
	20 mm nominal bore	10	Metre	262.60	2626.01
2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	20 mm nominal bore	1	Each	384.68	384.68

3	Constructing masonry Chamber 30x30x50 cm inside , in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in reinforced cement concrete slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	1	Each	1419.59	1419.59
TOTAL OF SUBHEAD-II				Rs.	4430.28
SUB HEAD : III - ROOFING					
1	Providing and fixing on wall face unplasticised 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 dia (for rain water)	4	Metre	283.02	1132.09
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised 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.				
	Single Push Fit Coupler				
	110 mm dia	1.33333	Each	95.69	127.59
	Single tee with door				
	110x110x110 mm	1	Each	175.59	175.59
	Plain bend 87.5 deg				
	110 mm dia	2	Each	112.75	225.50
3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				
	110 mm dia	2	Each	278.45	556.89
4	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	1		223.67	223.67
			Each		
TOTAL OF SUBHEAD-III				Rs.	2441.33
SUB HEAD : IV - INTERNAL DRAINAGE					
1	Providing, fixing, jointing and testing, uPVC SWR pipes, - type B conforming to IS : 13592 to wall, ceiling and floor, approved quality, complete, for soil, waste & rain water drain including pushfit jointing with seal ring. (i) Single socketed pipes.				
Internal Toilet (Soil & Waste Pipe)					

	75 mm	6	Metre	505.00	3030.00
2	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC pipes including jointing with seal ring leaving 10 mm gap for thermal expansion.				
	Bend without door (45°)				
	75mm	1	Each	135.00	135.00
	Single Tee with door				
	75mm	1	Each	255.00	255.00
	Bend with door (87.5°)				
	75mm	1	Each	185.00	185.00
	Reduced Tee with door				
	110mm x 75mm	1	Each	370.00	370.00
	Coupler				
	75mm	1	Each	140.00	140.00
3	Providing, fixing, jointing and testing , of PVC Nahani Trap without jali of minimum 50 mm water seal, making necessary cutting in slab or floors and making good including supports with cement concrete 1:3:6 complete as approved by Engineer-in-Charge.				
	110mm x 75mm (Toilet & Kitchen)	1	Each	1150.00	1150.00
4	Providing and fixing PTMT grating of approved quality and colour.				
	Rectangular type with openable circular lid				
	150 mm nominal size square 100 mm diameter of the inner hinged round grating (including balcony)	1	Each	147.70	147.70
5	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	150 x 100mm size P-type				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	Each	2050.45	2050.45
6	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete:				
	100 mm diameter	2	Metre	332.67	665.33
	TOTAL OF SUBHEAD-IV				8128.48
	Internal electrification works				
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR 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/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	2	Point	1222.19	2444.39

4	Wiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.	0	Point	1293.20	
5	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				
	Group -C	1	Point	712.95	712.95
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	30	Metre	191.51	5745.17
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	25	Metre	223.06	5576.62
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	60	Metre	267.53	16052.06
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1	Each	390.90	390.90
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2	Each	472.67	945.34
9	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
	5/6 A switch	1	Each	86.79	86.79
	3 pin 5/6 A socket outlet	1	Each	97.55	97.55
10	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	3	Each	74.59	223.78
11	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	0	Each	108.30	
	TOTAL				32275.53
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
12	LED Batten light (System lumen efficacy >135 lm/Watt)				

	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall				
	18- 22 Watt	2	Each	564.48	1128.95
13	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				
	300mm EXHAUST FAN	1	Each	3326.43	3326.43
	TOTAL				4455.39
	ELECTRICAL ROOM				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-incharge. All kinds of soil	18.36	CUM	185.46	3404.78
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	0.59	CUM	499.09	293.64
3	Sand filling in plinth under floors including watering, ramming, consolidating and dressing complete including lead up to 50m and lift upto 1.5m and including cost of sand.	1.20	CUM	1513.12	1815.75
4	Providing and laying cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) including supply of all materials, labour T & P rtc required for proper completion of the work and curing complete also including cost of formwork in foundation & floors.	3.00	CUM	4853.39	14559.00
5	Diluting and injecting chemical emulsion for PRE-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				

	Treatment of soil under floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the floor: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	15.43	SQM	220.90	3408.89
	Treatment of masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole,With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	15.43	SQM	30.64	472.77
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) (Lintel band)	0.43	CUM	8197.39	3516.27
7	As in item no. 6 above but for slabs (Using 1:1.5:3 Mix concrete)	3.42	CUM	8197.39	27997.79
8	As in item 6 but for the Plinth band i.e. having spans upto 6 m. (Using 1:1.5:3 Mix concrete)	0.60	CUM	6444.88	3882.20
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	8.79	CUM	5081.56	44684.17
10	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	13.36	CUM	6487.77	86655.80
11	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class -150 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	0.00	SQM.	800.68	0.00
12	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	2.97	SQM	292.72	869.85
13	#REF!	2.97	SQM	104.13	309.43
14	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to				

	IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick				
	jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	12.92	SQM	1200.24	15507.06
15	M.S. or Iron work of small sizes and sections such as holding down bolts, hold fast tie rods, gratings etc. wrought to required from including supply of steel bolts, nuts wastage etc and fixing required for proper completion of the work.				
(a)	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	2.40	KG	100.96	242.30
(b)	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. Flats,square or round bars etc. all complete. Fixed to Steel windows by welding	44.55	KG	156.10	6954.41
(c)	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	49.50	KG	93.37	4621.81
(d)	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	0.00	KG	100.96	0.00

16	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level or above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	4.12	QTL	7684.05	31638.36
17	Providing & fixing ISI marked flush door shutters conforming IS: 2202 non- decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters (a) 35mm thick including ISI marked stainless steel butt hinges with necessary screws.	0.00	SQM	1704.71	0.00
18	15 mm cement plaster on rough side of single or half brick wall of mix: 1:4 (1 cement: 4 coarse sand)	4.48	SQM	293.36	1313.09
19	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	90.90	SQM	244.84	22256.12
20	15 mm cement plaster on rough side of single or half brick wall of mix:1:6 (1 cement: 6 coarse sand)	45.28	SQM	281.68	12752.94
21	6mm thick plaster in 1:3 on ceiling and soffits of stairs upto floor two level.				
22	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate.	15.15	SQM	437.60	6629.68
23	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement. 18 mm thick	2.10	SQM	471.69	990.56
24	Extra for making chequers of approved pattern on cement concrete floors, steps, landings, pavements etc.	3.15	SQM	59.74	188.18
25	Cement concrete flooring 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 12-20mm nominal size laid in one layer neat cement (25 mm thick floor). (Apron floor)	10.94	SQM	332.50	3638.88
26	Steel Painting:				
	(a) With ready mixed red oxide zink chromate primer of approved brand and manufacture on steel galvanised iron/steel works.	7.58	SQM	48.02	363.76
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	7.58	SQM	161.20	1221.07
27	Wooden Painting:				
	Applying priming coat: With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood.		SQM	53.19	
	(b) Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.		SQM	161.20	
28	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 250x16 mm		NOS	138.01	
29	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	(a) 250 mm x 10mm		NOS	59.78	
	(a) 200 mm x 10mm		NOS	49.45	
30	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 125 mm		NOS	28.46	

31	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	90.90	SQM	121.90	11081.11
32	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work (Inner walls & Ceiling)	69.38	SQM	132.27	9177.37
33	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	160.28	SQM	111.18	17820.54
34	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	2.48	SQM	758.54	1877.38
35	Providing and fixing glass strips of 3.7mm thickness & 35 mm wide in joints of floor and skirting at the time of laying floors flush with floor level including labour, tools plants etc complete.	53.03	RM	65.37	3466.23
36	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.				
	80x1.25 mm M.S. laths with 1.25 mm thick top cover	5.10	SQM	2602.82	13274.37
37	Providing and fixing ball bearing for rolling shutters.	2.00	EACH	350.79	701.58
38	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Suspended floors, roofs, landings, balconies and access platform.	27.54	SQM	660.64	18193.85
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	8.97	SQM	524.67	4705.22
	TOTAL				380486.22
	INTERNAL ELECTRICAL WORKS				
	SUB-HEAD - I : INTERNAL WIRING				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR 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/HFFR PVC insulated copper conductor single core cable etc. as required.				
a)	Group - C	2	Point	1222.194	2444.39

4	Wiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.	0	Point	1293.20175	0.00
5	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.				0.00
	Group -C	2	Point	712.9465	1425.89
6	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				0.00
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	12	Metre	191.50575	2298.07
	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	20	Metre	223.06475	4461.30
	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	26	Metre	267.53425	6955.89
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 amps modular switch, connection etc. as required.	1	Each	390.90125	390.90
8	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	2	Each	472.66775	945.34
9	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				0.00
	5/6 A switch	1	Each	86.78725	86.79
	3 pin 5/6 A socket outlet	1	Each	97.546	97.55
10	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	4	Each	74.594	298.38
11	Installation ,Testing, Commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.	0	Each	108.30475	0.00
	TOTAL				19404.48
	SUB-HEAD II - FANS & LIGHT FIXTURES:				
12	LED Batten light (System lumen efficacy >135 lm/Watt)				

	Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall				
	18- 22 Watt	3	Each	564.47575	1693.43
13	Supplying of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.				
	300mm EXHAUST FAN	1	Each	3326.4345	3326.43
	TOTAL				5019.86
	WASHING BAY				
1	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) and curing complete,including cost of form- work,in foundation and floors.	6.624	CUM	4853.39	32148.83
2	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	44.16	SQM	437.60	19324.54
3	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	44.16	SQM	59.74	2638.17
	TOTAL				54111.54
	COST OF B.O.E.	798.68	SQM.	564.32	450705.93
	EXTERNAL RAIN WATER HARVESTING WORKS				
1	DRAINAGE NETWORK				
	Constructing brick masonry open surface drain with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including earth excavation, 10cm thick bed concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and 25mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) for filling haunches including 12mm cement plaster 1:4 (1 cement : 4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard design:				
	Drain 300 wide average. Depth 45 cm with R.C.C. slab	247.80	METRE	3605.91	893545.53

COST OF SEPTIC TANK & SOAK PIT - 25 USERS (FOR ADMIN BUILDING)					
I	SEPTIC TANK & SOAK PIT				
	Size :- Length = 2.30 M. Width = 1.1M Total Depth =3.00M				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	In all kind of soil upto 1.5m depth	11.86	Cum	126.46	1500.10
	In all kind of soil upto 1.5m to 3.0m. depth	9.11	Cum	216.79	1974.14
2	Providing and laying of cement concrete in base excluding the cost of centring and shuttering by 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	1.14	Cum	5612.87	6385.54
3	Brick work with brick of class designation 150 in foundation and plinth in cement mortar (1 cement : 4 coarse sand)	7.63	Cum	5251.06	40078.88
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	1.05	Cum	6444.45	6739.71
4,a	Suspended floors, roofs, landings, balconies and access platform.	6.97	Sqm.	660.60	4605.77
5	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	0.82	QTL.	7630.11	6256.69
6	12mm cement plaster on rough side of mix 1:3 (1 cement : 3 coarse sand)	24.02	Sqm	312.93	7516.53
7	Providing M.S. foot rest including fixing with 20x20x10 cm. cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded aggregate of nominal size 20mm) as per standard design with 20x20mm sq bars.	10.00	Nos.	388.06	3880.60
8	Providing and fixing C.I. tee at the inlet and outlet of septic tank.	2.00	Nos.	442.42	884.84
9	Providing & fixing 75mm dia vent pipes.	1.00	Rm.	744.31	744.31
10	Providing & fixing of 75mm dia cast iron terminal guard.	1.00	No.	242.72	242.72
11	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	2.00	No.	835.39	1670.79
	M.D. -2.5- Circular shape 450mm internal diameter	4.00	No.	833.29	3333.17
12	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8m long complete as per standard design.				
	With F.P.S. bricks	1.00	No.	19137.20	19137.20
	TOTAL				104950.99
	SEPTIC TANK & SOAK PIT - 100 USERS (FOR KENNELS)				
I	SEPTIC TANK & SOAK PIT				

	Size :- Length = 7.50 M. Width = 2.65M Total Depth =3.00M				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	In all kind of soil upto 1.5m depth	47.38	Cum	126.46	5991.06
	In all kind of soil upto 1.5m to 3.0m. depth	45.09	Cum	216.79	9774.96
	In all kind of soil upto 3.0m to 4.5m. depth	12.02	Cum	307.13	3692.83
2	Providing and laying of cement concrete in base excluding the cost of centring and shuttering by 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size)	4.68	Cum	5612.87	26295.57
3	Brick work with brick of class designation 150 in foundation and plinth in cement mortar (1 cement : 4 coarse sand)	19.51	Cum	5251.06	102467.96
4	Reinforcement cement concrete work in RCC culvert slab with 1:1.5:3 (1 cement : 1.5 coarse sand and 3 graded stone aggregate of 20 mm nominal size) excluding centering and shuttering and reinforcement.	3.98	Cum	6444.45	25631.40
4,a	Suspended floors, roofs, landings, balconies and access platform.	26.52	Sqm.	660.60	17515.93
5	P/F Mild steel or iron in plain work such as reinforced concrete or reinforced, brick work (when not included in over all rates) wrought to required shape as necessary including bending for proper completion of the work and including supply of steel its wastage bend hooks and authorised over lapping shall be measured upto floor two level.	3.12	QTL.	7630.11	23805.96
6	12mm cement plaster on rough side of mix 1:3 (1 cement : 3 coarse sand)	82.60	Sqm	312.93	25847.60
7	Providing M.S. foot rest including fixing with 20x20x10 cm. cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded aggregate of nominal size 20mm) as per standard design with 20x20mm sq bars.	12.00	Nos.	388.06	4656.72
8	Providing and fixing C.I. tee at the inlet and outlet of septic tank.	2.00	Nos.	442.42	884.84
9	Providing & fixing 75mm dia vent pipes.	1.00	Rm.	744.31	744.31
10	Providing & fixing of 75mm dia cast iron terminal guard.	1.00	No.	242.72	242.72
11	Providing and fixing in position precast RCC manhole cover and frame of required shape and approved quality.				
	M.D. -10- Circular shape 500mm internal diameter	2.00	No.	835.39	1670.79
	M.D. -2.5- Circular shape 450mm internal diameter	4.00	No.	833.29	3333.17
12	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks of class designation 75 and S.W. drain pipe 100 mm diameter, 1.8m long complete as per standard design.				
	With F.P.S. bricks	2.00	No.	19137.20	38274.39
	TOTAL				290830.23
	BOUNDARY WALL WITH CONCERTINA COIL				

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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	12.65	CUM	185.46	2345.57
2	Providing and laying in cement concrete 1:4:8 (1 cement :4 coarse sand :8 graded Stone aggregate 40 mm nominal size) and curing complete,including cost of form- work,in foundation and floors.	1.70	CUM	4853.39	8238.62
3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources) (Beam/Lintel)				
	Up to G.L.	1.30	CUM	6444.88	8367.07
	Above G.L.	0.65	CUM	8197.39	5321.13
4	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources) (Footing)	2.43	CUM	6444.88	15677.98
5	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natu ral sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)				
	Up to plinth level	0.46	CUM	6444.88	2976.18
	Above plinth level	1.13	CUM	7732.47	8768.62
6	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.	8.77	QTL.	7684.05	67368.72
7	First brick work in 1:6 cement coarse sand (of 2.25 fineness modulus) mortar in foundation & plinth including supply of all materials, labour, tools and plants etc. required for proper completion of the work.	0.00	CUM	5081.56	0.00
8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	4.60	CUM	6487.77	29869.86
9	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	62.83	SQM	244.84	15382.84
10	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	62.83	SQM	121.90	7658.96

11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	62.83	SQM	111.18	6985.28
12	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately).	16.53	RM.	267.75	4424.54
13	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	69.31	KG.	89.59	6209.93
14	Steel Painting:				
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	18.24	SQM	161.20	2940.25
15	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	12.98	SQM	524.67	6811.49
(b)	Foundations, footings, bases of columns, etc. for mass concrete.	9.19	SQM	279.40	2567.66
(c)	Columns, Pillars, Piers, Abutments, Posts and Struts .	21.28	SQM	684.90	14572.82
	COST OF 1 RM BOUNDARY WALL				13100.61
	TOTAL COST OF BOUNDARY WALL	186.04	Rm.	13100.61	2437236.937
	6.0 MT. WIDE M.S. GATE				
1	Earth work in excavation in trenches for foundations and for pipes cables etc. in ordinary soil(loan clay or sand) including lift upto 1.5 m and dressing of sides and ramming of bottom sand disposal of surplus excavated earth as directed by the Engineer i/c with in a lead of 50m.	4.14	CUM	126.46	523.56
2	Providing and laying in cement concrete 1:4:8 (1 cement :4 fine sand :8 graded stone ballast 40 mm nominal size) and curing complete, including cost of form-work,in foundation and floors.	0.60	CUM	4853.39	2933.87
3	R.c.c. work with cement approved coarse sand and 2 cm. (3/4") guage approved stone ballast in the proportion 1:1.5:3 in R.C.C. Footing excluding supply of reinforcement and its fixing and binding the same with 24 BWG binding wire and excluding necessary centering and shuttering etc.and also including supply of all materials, labour and tools and plants etc,required for proper completion of the works.strength of the concrete shall not be less than M-200.	0.78	CUM	6444.88	5031.84

4	R.c.c. work with cement approved coarse sand and 2 cm. (3/4") guage approved stone ballast in the proportion 1:1.5:3 in Beam excluding supply of reinforcement and its fixing and binding the same with 24 BWG binding wire and excluding necessary centering and shuttering etc.and also including supply of all materials, labour and tools and plants etc,required for proper completion of the works.strength of the concrete shall not be less than M-200.				
	Up to plinth lvl.	0.57	CUM	6444.88	3654.25
5	As in item 3 above but in R.C.C. columns in 1:1.5:3 having strength not less than M-150.			0.00	0.00
	Up to plinth lvl.	0.13	CUM	6444.88	850.34
	Above plinth lvl.	0.43	CUM	7732.47	3340.43
6	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.	3.47	QTL.	7684.05	26635.62
7	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	5.76	SQM	244.84	1410.29
8	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	5.76	SQM	121.90	702.17
9	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	5.76	SQM	111.18	640.41
10	Steel Painting:				
	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	28.80	SQM	161.20	4642.49
11	Steel work in built up 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. Hot finished welded type tubes	864.00	KG	138.51	119668.61
12	Centering and shuttering including strutting, propping etc. and removal of form for :				
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	1.14	SQM.	279.40	318.51
(b)	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	3.78	SQM.	524.67	1983.24
(c)	Columns, Pillars, Piers, Abutments, Posts and Struts .	7.52	SQM.	686.33	5160.64
	TOTAL				177496.28
	HORTICULTURE WORKS				
1	Supplying and stacking of sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment)	175.50	CUM	318.41	55880.16
2	Carrigae of sludge upto 5 K.M.	175.50	CUM	179.72	31541.39
3	Supplying and stacking at site dump manure from approved source, including carriage upto 5 km lead complete (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of I.S. designation 4.75 mm	29.25	CUM	362.58	10605.47

4	Carrigae of manure upto 5 K.M.	29.25	CUM	179.72	5256.90
5	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge.	204.75	CUM	41.08	8410.61
6	Spreading of sludge, dump manure or/and good earth in required thickness (cost of sludge dump manure or/and good earth to be paid separately).	204.75	CUM	58.78	12034.56
7	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing, including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately).				
	Holes 1.2 m dia and 1.2 m deep	50.00	NO.	267.52	13375.98
8	Providing & stacking of Phoenix sylvestris Roxb. (Wild date palm/khajur) of height 150-165 cm. in Big HDPE Bag as per direction of the officer-in-charge.	30.00	EACH	519.33	15579.93
9	Providing & stacking of Pinus longifolia (Pinus) of height 90-105 cm. in cement pots of size 35cm as per direction of the officer-in-charge.	20.00	EACH	439.43	8788.51
10	Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately). With grass Turf.	585.00	Sqm	14.97	8757.90
	TOTAL				170231.40
	BORING & SUBMERSIBLE PUMP				
1	Drilling of 200 mm dia bore hole.	50	metre	570.00	28500.00
2	Supply of 125 mm dia MS pipe as per IS1239	40	metre	1520.00	60800.00
3	Supply of 125 mm dia slotted MS pipe	10	metre	1710.00	17100.00
4	Supply and fixing of nylon jali around the slotted pipes complete as required.	1	Job	4750.00	4750.00
5	Providing and packing of coarse sand / pea gravel around the pipe.	1	job	5700.00	5700.00
6	Transport of boring tools other required equipments and installation at site.	1	Job	47500.00	47500.00
7	Supply of submersible pump (3.7KW/5.0 HP) of make KSB (Cora) for 200 lit/min discharge at 50 meter head with control panel, support wire etc complete.	1	Set	61750.00	61750.00
8	Providing 3 core PVC insulated submersible cable. (from pump panel to submersible pump)	40	metre	95.00	3800.00
9	Providing and fixing 65 mm dia. G.I. pipe complete with fittings and clamps including cutting and making good the wall etc. (from submersible pump to ground level)	40	metre	251.75	10070.00
10	Providing and fixing 65 mm dia. brass gate valve with CI wheel of approved quality.	1	No	1225.50	1225.50
11	Lowering of 125 mm dia MS pipe in bore hole including cutting, jointing etc complete.	50	metre	142.50	7125.00
12	Supply and fixing of tube well accessories i.e. well cap, clips, clamps, etc. to complete the job in all respect.	1	Job	9500.00	9500.00
13	Fixing, testing and commissioning for erection and lowering of submersible pump, 65 mm dia GI column pipe, 3 core submersible copper cable upto the control panel, supporting clamps, cable clips, pressure gauge, connection line and all other accessories required for the proper completion of the work.	1	Job	14250.00	14250.00

14	Testing and development of tube well.	1	Job	4750.00	4750.00
	TOTAL				276820.50
	EXTERNAL ELECTRICAL WORKS				
	SUBHEAD- I: M.V. PANELS				
1	Supply & Erection of factory fabricated & wired metal clad dust and vermin proof mounting, M.S Channel Base with bottom and top cable entries Electrical control panel with TPN ACB (65KA, 4 Pole Elect draw out Micor Processer Release IPR2) and TPN MCCB's (four Pole 36 KA with thermal magnetic release) switches and instrument chamber etc. complete in all respect. The instrument chamber shall be separate and shall comprise of flush type/digital ammeter Voltmeter, Selector switches for ammeter and Voltmeter, instrument fuses current transformer etc. The Board shall have suitable capacity electrolytic aluminium busbars as per IS8623 insulated with heat shrink sleeving and mounted on non hygroscopic supports such as CMC/DMC support with detachable side covers and shall be suitable for extension on the sides. The switches entry boxes shall be complete with suitable cable end boxes reverse. The job includes the grounding of the board as per directions of Engineer-in-charge. All outgoing of 100 Amp. and above will be provided with Amp. Metre, current transformer and selector switches etc. and instrument fuse The switch board shall be fabricated with CRCA sheet with a minimum thickness of 1.6mm/2mm. Cubical type switch board shall be of cat A & B only.				
i	MAIN LT PANEL				
	INCOMING				
	1No. Of 160 Amps FP MCCB of 25KA breaking capacity				
	Metering :				
	1 Set of CT's one of 160/ 5Amp ratio for Multifunction Meter				
	One (1) Set of Phase Indication Lamp.				
	BUS BAR				
	1 Set of 200 Amps TPN Aluminium Bus Bars				
	OUTCOMING				
	125 Amps FP MCCB of 25KA - 2 No(1 OUTGOING+SPARE)				
	63 Amps FP MCCB of 25KA - 2 No(1 OUTGOING+SPARE)				
	40 Amps FP MCCB of 25KA - 1 No(1 OUTGOING)				
	Panel described as above	1.00	Set	68875.00	68875.00
	TOTAL				68875.00
	SUB-HEAD -II : L.T. CABLES				
2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required				
	Above 95 sq.mm. and upto 185 sq.mm.	75.00	Meter	69.57	5217.99
3	Supply of following size of 1.1KV grade multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS 7098:1988 with up to date amendment				
	3.5 x 95 sq.mm	75.00	Metre	1125.75	84431.25

4	Supplying and making cable end terminations with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.				
	3½ X 95 sq. mm (45mm)	2.00	Each	490.60	981.20
5	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
	100 mm dia	12.00	Meter	1375.69	16508.23
6	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) 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.				
	150 mm dia	8.00	Meter	606.79	4854.35
7	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
	90 mm dia (OD-90 mm & ID-76 mm nominal)	10.00	Metre	241.00	2409.96
	TOTAL				114402.98
	SUBHEAD - III: EXTERNAL LIGHTING				
8	Supplying, installation & testing of 7.0 m high octagonal GI pole with single arm as per approved sample made from 3 mm sheet steel (Grade S 355 J0) with top diameter as 75mm and bottom dia as 150mm and base plate of 240x240x16 mm with suitable slot shaped holes for mounting the same on a shallow foundation, GI weather proof junction box with 16A SP MCB, loop-in-loop out terminals for 2nos. 2Cx6 sq.mm YWY cables and 2x2.5 sq.mm copper conductor from junction box to fitting and connected accessories as required etc.	1.00	Nos.	20900.00	20900.00

9	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 120 < 135$ lm/Watt) Supplying, installation, Testing & Commissioning of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency $> 85\%$, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $> 85\%$, THD $< 10\%$ as per IEC 61000-3-2, P. F. ≥ 0.95 , IP-66, IK-10, CRI > 70 , under voltage and over voltage protection, EMIEMC As per CISPR 15 , lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) < 5 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 120 < 135$ lm/Watt output. LM79 & LM80 Test				
	90 Watt	1.00	Nos.	1674.78	1674.78
10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Double pole	1.00	Nos.	499.21	499.21
11	Supplying, Installation, Testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.				
	1 output per phase and suitable for single phase supply	1.00	Set	3351.71	3351.71
12	Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as required.				
	Above 6.5 metre and upto 8.0 metre	1.00	each	5148.42	5148.42
13	Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required				
	32 mm dia	25.00	Mtr	400.94	10023.57
					41597.68
	SIGNAGE				
	Video System				
1	SITC of 7.5 Mtr *1.5 Mtr P10 Programmable OUTDOOR LED Sign Board Based on SMD technology	121	Sq Ft	3800.00	459800.00
2	Wall Mount Accessories & Fixture	1	Lot	5700.00	5700.00
3	Freight Upto 300 KM	1	Lot	9500.00	9500.00
	TOTAL				475000.00
	CAMPUS EARTH FILLING	381.44	CUM.	499.09	190371.73

	GRAND TOTAL				20650090.62
	ADD LABOUR CESS @ 1% ON GRAND TOTAL				206500.9062
					20856591.52
	EXTERNAL SURVELLANCE SYSTEM				
1	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.	350.00	Mtrs	52.00	18200.00
2	Supply, Installation, Testing & Commissioning of CAT6 I/O with face plate etc as required.	10.00	Nos	296.00	2960.00
3	Supply, Installation, Testing & Commissioning of loaded 24 port CAT 6 Transparent shutter jack panel, 1U height, UL-94V-0, Black with cable support bar, clear label marks and earthing plug for CAT6 cable termination at rack end.	1.00	Nos	7285.00	7285.00
4	Supply, Installation, Testing & Commissioning of Cat6 Patch Cord LSZH 24AWG Patch Cord, Diameter < 6.0mm, 3 Meter, Operating Temperature -20 to +60 Deg C Patch cord 1 Mtr for rack side switch to jack panel connectivity.	20.00	Nos	237.00	4740.00
6	Supply, Installation, Testing & Commissioning of 24 Port 1U x 19" LIU Loaded with Single mode OS2 LC Adapters & LSZH Pigtailed along with Splice Trays, Min. 4 No of Circular Cable Entry with Rubber Grommet/Glands to close any open entry, Cable Holders for Cable Entry Inside Panel, Heat Shrink Tubes for Splices, Tube for open fibers, Ties, Panel shall be Powder Coated with Min. 1.2mm Metal Sheath, 30 Years Channel Warranty. Factory Loaded LC Type LSZH Pigtailed should meet IEC 61034-1, IEC-60332-1, IEC-60754-1, Insertion loss <= 0.35 dB, Return Loss >= 50, Attenuation: 1310/1550 : 0.3/0.2 dB/KM, Repeatability: <= 0.2DB 1000 Times Mating Cycles, RoHS Complied, Meets ANSI/TIA 568.3-D.	1.00	Nos	14375.00	14375.00
7	Supply, Installation, Testing & Commissioning of Armoured 06 Core Single mode (OS2) 9/125 Fiber Cable, ITU G.652.D, G.657A1, Outdoor ECCS Armored Fiber Cable with PBT Loose Tube Filled With Thixotropic Jelly, Uni-Tube, Glass Yarn, Water Swellable Tape Under Armor, UV-HDPE Jacket.	200.00	Mtrs	72.00	14400.00
8	Supply, Installation, Testing & Commissioning of Fiber Patch Cord, LC - LC, Spiral Steel Armored, 9/125µm OS2 Singlemode Round Cord (4.0 +/- 0.2mm), Duplex.	8.00	Nos	1785.00	14280.00

9	Supply, Installation testing & commissioning of Bullet camera with 4MP or higher VARIFFOCAL (2.8-12MM) OR BETTER Bullet Camera with image sensor: 1/2.7inch CMOS or better, with resolution: Min. 2560 x 1440 at 25 FPS or better , H.264, H.265, G.711ulaw /G.711alaw/ G.722.1/G.726/ MP2L2/ PCM/ MP3, should support Environment Noise Filtering, Min . three compressed stream (Individually Configurable), Multi-level user ID/Password, Simultaneous Live View: Up to 6 channels, Security: Password protection, complicated password, HTTPS encryption, IP address filter, Protocol: TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PoE, ARP, Alarm: 1 inputs, 1 output; Audio: 1 inputs, 1 output, Built in Mic;				0.00
10	Image Settings: Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser; Illumination: Color: 0.003 Lux at F1.4, 0 Lux with IR on; IR Range: Up to 40 mtrs. or better; Electronic Shutter: 1/3 s to 1/100,000 s with slow shutter support; Wide Dynamic Range: 120dB; ONVIF: Profile S, G, T supported; Day and Night: Day, Night, Auto, Schedule; Edge Storage: Built-in memory card slot up to 256 GB; False alarm filter: Yes; Human and vehicle classification: Yes; Housing: IP67, IK10; Edge based video content Analytics: Trip wire detection, Intrusion detection, Motion Detection, Video tampering, Scene change detection, Audio exception detection, Face capture or detection, Unattended baggage detection, Object removal detection, Region entrance detection, Region exiting detection; Certification: CE, FCC,BIS/UL.	4.00	Nos	22500.00	90000.00
15	Supply, Installation, Testing & Commissioning of SITC of 55" 4K resolution commercial Display Size ,Pixel Pitch (mm) 0.181 [mm] x 0.181 [mm] Response Time 6ms (G to G) ,Refresh Rate 60Hz Aspect Ratio 16:9 ,Resolution 3840 x 2160 , Brightness 400cd/m ² , Contrast Ratio 3000:1	1.00	Nos	68750.00	68750.00
16	Supply, Installation, Testing & Commissioning of switch with 8 # 1G Base-POE Port 4 # 1G SFP Ports, Out of band : 1 x RJ45 10/100/1000BASE-T (back), Humidity: 95% maximum relative humidity, non-condensing, CE mark, commercial, FCC Part 15 Class A, VCCI Class A, EN 50082-1, EN 55024, UL listed (UL 1950)/cUL IEC 950/EN 60950	1.00	Nos	95000.00	95000.00
21	Supplying, installation, testing and commissioning of 17U Indoor Rack Wall mount 15U, 630D With Front Glass Door Lock & Key 550 17U- (fan + PDU + Cable Manager)	1.00	Nos	26500.00	26500.00
22	Providing and fixing of 25mm of medium duty class PVC /HDPE conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit etc. as required.	300.00	Mtrs	85.00	25500.00

23	Supplying, installation, testing and commissioning of NVR for 8 channels with , Audio: G.711A /G.711U Video : H.264/H.265/H.264+/H.265+4K: 240 fps 4MP:480 fps 2 MP: 960 fps ,Face Detection, Pedestrian Detection Vehicle Detection, Cross Counting, Heat Map, Crowd Density Detection, Perimeter Intrusion Detection, Line Crossing Detection, Queue Length Detection, . NVR should be included with recording for 15 days for all camera.	1.00	Nos	65000.00	65000.00
24	Supply & Installation of 3 KVA UPS With inbuilt Battery	1.00	Nos	55000.00	55000.00
					501990.00
	TOTAL COST OF TENDER IN RS.				21358581.52
	TOTAL COST SAY IN LACS				213.59