Item Number (upto 200 characters)	Item Description	Quantity (only figures)	UNIT (upto 50 characters)	Tender Rate (Upto 2 Decimals)	Amount (Upto 2 Decimals)
1	Demolition including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	1.00	Cu.m	1110.75	1110.75
2	Demolition of Brick work and stone masonry including stacking of serviceable materilas and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	1.00	Cu.m	577.92	577.92
3	Dismentaling tiled of Stone Floor/Paver laid in Mortar including stacking of servicable Masterial and disposal of unservicable material with all lead and lifts - Tile Flooring/Dedo	866.03	Sqmt	50.11	43393.63
4	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1472.48	Cu.m	123.13	181305.70
5	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1081.54	Cu.m	136.47	147599.51
6	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1.00	Cu.m	149.65	149.65
7	Add extra for Disposing off the excavated stuff of above items for lead of (A) 50 m to 100	1.00	Cu.m	17.45	17.45
8	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposited layer by ramming and watering.	1728.57	Cu.m	136.92	236667.82
9	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc.complete.	1102.49	Cu.m	301.78	332707.57
10	Boring holes 3.5 m deep in ordinary soil (for cast in situ piles) and getting out the soil and disposal of the surplus excavated soil as directed within a lead of 50 Meter for following diameter of pipes.(ii) 250 mm	1.00	Each	1335.62	1335.62
11	Extra for under reaming inside the bore Holes for under reamed piles of following Diameter.(ii) 250mm	1.00	Each	534.25	534.25

12	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1.00	Cu.m	212.52	212.52
13	Excavation for foundation from 1.5m to 3.0m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	1.00	Cu.m	295.10	295.10
14	Providing and Filling Rubble including hand packing and filling intersects with quarry spells complete for all lift and lead	1.00	Cu.m	1075.45	1075.45
15	Providing and laying of Cement Concrete1:3:6 (1-Cement: 4 Coarase Sand : 6 Crushed Stone aggregate 20mm nominal Size) and curing Complete excluding cost of formwork in (A) Foundatiion and Plinth	429.07	Cu.m	3070.94	1317656.00
16	Providing TMT Bar FE 500D reinforcement for R.C.C.work including bending,binding and placing in position complete upto floor two level	112022.00	Kg	76.52	8571923.44
18	Extra for additional lift of reinforcing steel for all R.C.C. work above floor two level. (Avg Rate from 2nd Floor to Top Floor)	1.00	Kg	1.04	1.04
19	Extra foradditional liftof concrete for all R.C.C. work above floor two level excluding cost of reinforcment (Avg Cost)	1.00	Cu.m	40.55	40.55
20	Providing and laying in position Ready Mixed M250 grade concrete for reinforced cement conctere work , using cement content as per approved Design Mix manufactured in fully automatic batching plantand transported to site of work in transitmixer for a lead upto 10kms having continuous agitated mixer,manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying,excluding the cost of centering shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer- in-charge.Without FlyAsh(Min. cement level as per latest IS456 shall be maintained) (Cement level 475 kg)	1312.41	Cu.m	5021.52	6590272.70

21	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc.Height of propping and centering below supporting floor to ceiling not exceeding 4M.and removal of the same for in situ reinforced concrete and plain concrete work in. (A)Foundations Footings Bases of Columns etc.and Mass concrete.	202.00	Sqm	183.73	37113.28
22	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. Height of propping and centering below supporting floor to ceiling not exceeding 4M.and removal of the same for in situ reinforced concrete and plain concretework in. (B)Flat surfaces such as soffits of supspened floors slabs Landing sand the like. (1)Floors etc. upto 200 mm in thickness	377.00	Sqm	268.92	101383.82
23	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4M. and removal of the same for in situ reinforced concrete and plain concrete work in. (C) Vertical surface such as walls (any thickness) partitions and the like including attached buttresses & string course & the like.	297.00	Sqm	245.54	72925.71
24	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4M. and removal of the same for in situ reinforced concrete and plain concrete work in. (G) Columns Pillars Posts and struts. (1) Square Rectangular Polygonal in plan	1974.00	Sqm	320.70	633052.32

25	Providing formwork ofordinary timber planking so as to give a rough finish including centering shuttering strutting andpropping etc. height of propping and centering below supporting floor to ceiling not exceeding 4M.and removal of the same for in situ reinforced concrete and plain concrete work in. (H) (1) Sides and soffits of Beams Beam Haunchings cantilevers Girders Bressumers and Lintels not exceeding 1M.in Depth	1695.00	Sqm	207.12	351069.59
26	Providing formwork of ordinary timber planking so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4M. and removal of the same for in situ reinforced concrete and plain concrete work in.(I) Edges of slabs and Breaksin floors and walls.	131.24	Sqm	73.67	9668.42
27	Extra For Additional ht. of Proping and Centering where the Ht of Proping and Centering exceed 4.00 Mtr between Supporting Floor to ceiling Including Temperoroy Brickwork or Stone Pillars for Supporting as required Ht (i) Ht More than 4.00 Mtr and less than 5.00 Mtr	2211.50	Sqm	407.75	901732.71
28	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth inCement Mortar 1:5. (1-Cement : 5-fine sand) (B) Conventional	308.68	Cu.m	4245.09	1310378.64
29	Extra for brickwork in superstructure above plinth level upto floor two level (B) Conventional	308.68	Cu.m	288.72	89121.93
30	Extra for brickwork in superstructure above floor two level Item No. 1(6.12) (B) Conventional	1.00	Per Floor Per Cu.m	42.43	42.43
31	(i) Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1 Cement : 4-coarse sand) in foundation and plinth (B) Conventional	140.78	Sqm	629.84	88668.55
32	Extra for half brickmasonry in superstructure above plinth level upto floor two level. (B)Conventional	140.78	Sqm	55.99	7882.91
33	Extra for half brickmasonry in superstructure above floor two level. (B) Conventional	1.00	Sqm	6.30	6.30

34	Providing 10mm thick cement plaster in single coat on brick/concretewalls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)	4214.50	Sqm	133.14	561110.80
35	Providing 15mm thick cement plaster in single coat on Rough(Similar)side of single or halfbrick walls for interior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:4 (1-cement :4-sand)	10.00	Sqm	177.05	1770.53
36	Providing 20mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12mm thick cement plaster in cement mortar (1Cement : 4 coarse sand) in rough finishing and 8mm thick top coat of cement mortar 1:2(1Cement :2Coarse sand) finished with trovel including scaffolding curing etc. complete.	1270.35	Sqm	286.10	363449.31
37	Extraover items for interior plastering above floor two level for every additional storey height. (1) Single coat plaster	1.00	Sqm x no of Floor	24.56	24.56
38	Extraover items for plastering above floor two level for every additional storey height. (1) Double coat plaster	1.00	Sqm x no of Floor	28.06	28.06
39	Providing and fixing 60mm diameter back up rod having minimum density 22kg per cum(ASTMD 3575 & compression strength of 0.40 kg per sqm (ASTM-5249) and finishing with polysulphide sealantetc.complete.For 50mm wide expansion joint	1.00	Rmt	53.30	53.30

41	Providing and Fixing rebar of following diameter using chemical Grout of Swanchore/Hilti/Fischers or Equivalent Make Including cost of all equipment, tools, materials, labours etc. , Standard Procedure as mentioned in manufactures Specificiations shall be strictly followed , Which shall be sumbmitted and got apporved from the authority prior to start of work. The Rate shall also include cost of drilling of hole of required diameter and depth as mentioneed in manufacturer's specification, cleaning the hole with required air blower and other necesary tools and tackles, positioning, provideing and grouting chemical, allied fixture and fastners etc. but excliding the cost of reinforcing bars etc. complete item includes necessart scaffolding, staging, labour, tools and eqvupments etc. complete as directed by the Engineer in charges (i)8mm	1.00	Nos	80	80.00
	10mm	1.00	Nos	90	90.00
	12mm	1.00	Nos	125	125.00
	16mm	1.00	Nos	190	190.00
42	Providing & Laying Trimix vaccum dewatering the concrete floors using TREMIX and finishing the top surface to required level/ slope and grade through / broom finish using power trowels (both fan & disc) of standard make including curing, providing and mixing of recron, cutting of VDF floor 100-150mm thick with Diamond Saw System (disposal of debris to be included in the quoted rate)as per specification i and drawing. (Maximum thickness of RCC flooring shall be of 150 mm) At all heights / depths and levels.	810.05	Cum	4575.00	3705967.61
43	Providing and Fixing Hollow steel Sections Framed Work including Cutting, Hoisting, Welding & Fixing in position Purlin, Main Chord etc. as per Engineerin-charge.TATA / JINDAL / ASIAN Make	60872.00	Kg	127.26	7746570.72
44	Providing corrugated G.I. sheet of class-3 roofing fixed with glavanished iron J or L Hooks, Bolts and nuts 8mm diameter with bitumen and G.I. limpet washer or G.I. limpet washer. filled with white lead complete excluding the cost of purlins, Rafters and Trusses.(1) 0.80 mm thick sheet	4061.00	Sqm	734.19	2981542.34

45	Providing and fixing 150mm wide 450mm over all semicircular plain G.I.sheet class-3 gutter with Iron brackets 40mm x 3mm size Bolts, Nuts, washers etc. including making necessary connection with rain water pipes. (i) 0.80 mm thick Sheet	424.00	Sqm	581.32	246477.81
46	Providing ridges or hips 600 mm overall in plain G.I. sheet class-3 fixed with G.I.J. or L Hooks and nuts 8mm dia G.I. Limpet and bitumen washer complete. (1) 0.80 mm thick sheet.	212.00	Sqm	664.70	140916.65
47	After new truss is installed and connected with tensile roof structure, wire/ropes connectiong existing tensile roof strucure with pedestal at plinth level shall be removed, Pedestal at ground lvel shall be demolisehed at up to plinth level.	1.00	Job	125000.00	125000.00
48	Providing and layingVitrified tiles 8 to10mm thick , 24'' x24'' in flooring, treads of steps and landing laid on a bed of 12mm thick cement mortar1:3 (1-cement : 3-coarsesand) finishing with flush pointing in white cement. (Basic Rate 366/Sqmt) - Toilet Area	370.00	Sqmt	1092.37	404175.24
49	Providing and laying Vitrified tiles 8 to 10 mm thick , 24'' x 24'' in skrting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3coarse sand) and jointed with white cement slurry(Basic Rate 366/Sqmt) - Passage Area Skriting	340.09	Sqmt	1135.80	386273.72
50	Providing and laying granite Slab 18mm Thick in Flooring, Treads of Steps and landing laid on bed of 20mm Thick cement mortar 1:6 (1 Cement : 6 Coarse Sand) or Lime Mortar 1: 1.5 Laid and finished with flush Pointing in white or colour cement including rubbing and Polishing complete. Basic Rate Rs1347.46/Sqmt	25.00	Sqm	2434.10	60852.50
51	Providing and laying granite slab 18mm Thick in Window-Door Seal frame etc Laid on 10mm thick Cement mortar 1:4 (1 Cement: 4 Coarse sand) and finished with flush pointing in white or colour cement including rubbing and polising Comp. (Basic Rate Rs 1000/Sqmt)	57.95	Sqm	2046.26	118580.77

52	Providing and fixing of 35mm Thick Flush Door solid Double Core type both face waterproof ply Vennered and 1.5mm thick laminate shall be pasted on both side with adhesive as specifed by the manufacturees. The Laminate shall be as per approved shade and texture of make incl. Sal wood frame of finished size 12cm x 7cm Inc. SS hinges with nessary scerew and Anodixed aluminum fixtures and fastening for all Floor - Without Frames	142.32	Sqm	2545.20	362232.86
53	Wall Painting (Two Coat) With Plastic Emulsion Paint of Approved Brand and Manufacture Specification on undecorated wall Surface to give an even shade including throughly brushin the surface free from mortar droppins and other foreign matter and sand prepeared smooth	5484.84	Sqmt	83.26	456668.16
	Extra over for painting of approved brand on ceilings and sloping roofs.	1096.97	Sqmt	35.41	38843.67
54	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt , horizontal Three track member size 92mm x 31.75mm x 1.30mm,@ Wt.1.07 Kg/mt , vertical member of size 92mm x 31.75mm x 1.50mm @ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt/ with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc	143.00	Sqm	1583.95	226505.24

55	Providing and laying intergral cement based water proofing treatemnt including prepartation of surface as requrird for treatment of roof, balcony, terrace etc. consisting of following operations (a) Apply and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conformint to IS 2645 over the RCC slab including cleaining the surfae before treatemnt (b) laying cement concrete using broken brickbats 25mm to 100mm size with 50% of cement mortoar 1:5 admixed with water proofing compound conforming to IS2645 brickbats is finally covered by jointless cement plaster 20mm thick in CM 1:4 added with special waterproofing compound to IS 2645 and top smooth finished with trowel wiht false chequered marking of 300 mm size. The Tratement is carried along the vertical surface of the paraper and other adjoinning wall upto ht of about 300mm in a shape of quater round vata incl. curing etc. complete with avg. thickness of 120mm and mininmum thickness at khurra as 65mm (c) the whole terrace so finished shall be flooded with water for a min. period of two weeks of curing and for final test. all above orpertion to be down in order as directed and specified by the EIC with Avg. thickness of 120mm and min. thickness at khurra as	1.00	Sqm	516.12	516.12
56	Supply and Installation of Laminated Wooden Flooring	383.00	Sqm	947.23	362789.86
57	Providing and Laying of One Side Aluminium foil thermal Bubble Inuslation barrier on the external side of the Roofing Pannel under cemement Board as and where directed by EIC	4061.00	Sqm	135.44	550021.84
58	Providing and laying polished Kota stone slab flooring over 20mm (Average) thick base of cement mortar 1:6 (1-cement : 6-coarse sand) or L.M. 1.1.5 (1-Lime putty:1.5 - coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (A) 25mm thick	115.00	Sqm	1110.75	127735.96

59	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. cat.III(j) in existing pipe erected concealed in wall/ceiling complete	225.00	Pt.	410.00	92250.00
60	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board.(j) in existing pipe erected concealed in wall/ceiling complete	44.00	Pt.	425.00	18700.00
61	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories	40.00	Pt.	258.00	10320.00
	(7) Blank Plate Single	20.00	Each	25.00	500.00
	(9) 16 Amp. SP one way switch	20.00	Each	181.00	3620.00
	(10) 6/16Amp. Universal socket	20.00	Each	200.00	4000.00
62	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	12300.00	Mtr	33.00	405900.00
63	SETC of PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (2) 25 mm	50.00	Mtr	21.00	1050.00

64	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (E) in existing pipe(b) 2 wire 2.5 sq. mm	6200.00	Mtr	63.00	390600.00
65	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (E) in existing pipe (a) 2 wire 4 sq. mm	1500.00	Mtr	87.00	130500.00
	(b) 2 wire 6 sq. mm	700.00	Mtr	121.00	84700.00
	(h) 4 wire 6 sq. mm	1200.00	Mtr	240.00	288000.00
	(i) 4 wire 10 sq. mm (use earth wire of 4 sq.mm)	450.00	Mtr	399.00	179550.00
66	Supplying and Errection approved make lowe noise decorative exaut fan having sqare frame ABS body with inbuilt Lowers and Sqare Fraem - 200mm with 1350RPM Cat.II	4.00	Each	1704.00	6816.00
67	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [E] 450 mm dia 1400 RPM	4.00	Each	3938.00	15752.00

68	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.IP20(vi) 36 watts, 24" x 24", Surge- 2KV (CAT-III)	10.00	Each	1795.00	17950.00
69	Supplying and Erecting Of L.E.D. type High bay fixture having Power Consumption of following watts with, Input Voltage 110 - 290 V.AC with full efficiency, Power Factor > 0.9 with 50/60 HZ, CCVC LED Driver used for maximum power saving, Best Quality Aluminium alloy housing and aluminium Dome for better heat dissipation, CCT Cool white (6000K), CRI 80, Beam angle > 120 degrees, working temperature -20 deg c to +55 deg c, Body IP 65 (B) 90 to 150 watts	70.00	Each	5753.00	402710.00

70	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminium housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses with company mark/name engraved or embossed 160 to 270 V,Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K,Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(iii) above 24 to 36 watts CAT III	20.00	Each	2202.00	44040.00
71	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (a) Double door (IP-43) (ii) 16 way	4.00	Each	4666.00	18664.00

72	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (C) The standard	2.00	SQM	17955.00	35910.00
73	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	50.00	KG	78.00	3900.00
74	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(b) One wire 1.50 sq. mm	100.00	Mtr	17.00	1700.00
	(i) One wire 35.00 sq. mm	70.00	Mtr	301.00	21070.00
	(j) One wire 50.00 sq. mm	80.00	Mtr	471.00	37680.00
	(k) One wire 70.00 sq. mm	60.00	Mtr	670.00	40200.00
	(l) One wire 95.00 sq. mm	75.00	Mtr	919.00	68925.00
	(l) One wire 120.00 sq. mm	60.00	Mtr	1179.00	70740.00

75	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 50 KA and above at 415 V having Normal current rating 400A. with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. With all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat II	1.00	Each	25229.00	25229.00
76	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. cat-II	8.00	Each	6703.00	53624.00
77	Providing and erecting following additional parts for panel mounting MCCBs (A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-II	9.00	Each	874.00	7866.00
	(B)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 400A to 630 A panel mounting cat-II	1.00	Each	1311.00	1311.00
78	Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing.. (4) 600 A -800 A , CT Ratio 1/800	4.00	Each	6057.00	24228.00

79	Providing and erecting multifunctional meter suitable for application of Power monitoring and showing measurement of following Voltage, Frequency, Apparent energy, Apparent power, Active and reactive energy, Active and reactive power, Average voltage Vavg, Peak demand power PM, QM, SM, Demand power P, Q, S, Apparent power S, S1, S2, S3, Unbalance current, Power factor and displacement PF (signed, four quadrant), Calculated neutral current, Active, reactive, apparent energy (signed, four quadrant), Active power P, P1, P2, P3, Voltage U21, U32, U13, V1, V2, V3, Phase currents, Average current Iag, Peak demand currents, Reactive power Q, Q1, Q2, Q3, Demand current I1, I2, I3, [Us] rated supply voltage 40...300 V AC 45...65 Hz, 40...300 V DC, Network frequency 50 Hz, Type of network 3P, Display type 7 segments LED, Display colour Red, Messages display capacity 3 fields of 4 characters, Display digits 12 digit(s) - 14.2 mm in height	1.00	Each	14124.00	14124.00
80	Providing and fixing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock with minimum 50" diagonally size.	1.00	Each	130.00	130.00
81	Supplying rubber matting of following thickness as per IS:15652/IEC 61111(c)12mm	4.00	SQM	3082.00	12328.00
82	Supplying stand first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, Scissors, anti-septic solution (Savlon or similar) etc. (All above contents shall be of standard makes)	1.00	Each	300.00	300.00
83	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (D) Suitable for 400 Amp. capacity	10.00	Mtr	7319.00	73190.00
84	providng and erecting Suitable set of CTS for 100A Energy Meter	1.00	Each	942.00	942.00

85	providng and erecting Approved make. energy meter 3 phase 4 wire unbalanced load 500 V.50A / 100A complete erected as directed with necessary earth wire. Cat. II	1.00	Each	61.00	61.00
86	providng and erecting Approved make. Multi meter 3 phase 4 wire unbalanced load 500 V.50A / 100A complete erected as directed with necessary earth wire. Cat. II	1.00	Each	10341.00	10341.00
87	providng and erecting Approved make. Indiction LED Light complete erected as directed with necessary earth wire. Cat. II	3.00	Each	2106.00	6318.00
88	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing.	2.00	Each	2612.00	5224.00
89	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables. (B) 4 core 16 Sq. mm	550.00	Mtr	988.00	543400.00
90	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark (cat-III)	10.00	Each	112.00	1120.00
91	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp. Cat III.	5.00	Each	296.00	1480.00
92	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b) 63 Amp. Cat. III	4.00	Each	737.00	2948.00
93	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III	96.00	Each	2235.00	214560.00

94	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.	50.00	kg	794.87	39743.50
95	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)-Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :-Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. (b)For Electrical installation up to 11 KV in normal soil. Length of Pipe : 2.00 mtrs Back filling Compound :1 no. Bag of 25 Kg.	4.00	Each	5760.03	23040.12

96	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. [C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA)i.e. independent Earthing located in other	4.00	Each	10593.89	42375.56
97	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (I) 3 1/2 core 240 Sq. mm(120 Sq. mm 1/2 core)	240.00	Mtr	1168.57	280456.80
98	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 3 & 1/2 core 16 Sq. mm	20.00	Each	47.47	949.40
	(H) 3 & 1/2 core 240 Sq. mm	2.00	Each	247.45	494.90
99	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (E) 16 Sq.mm.	10.00	Each	15.15	151.50
	(J) 240 Sq. mm	6.00	Each	85.85	515.10
	(f) 120 Sq.mm.	2.00	Each	45.45	90.90

100	maruti air hanging fan-(MH-1100) plastic Model MH-1100 diameter blades (mm) 1000 no. of blades 4 fram material plastic blades material 430 stainless steel air flow (m cub /h) 32500 import power (w) 550 rated voltage (v)415 heightx width x thickness 1100x1100x350mm	10.00	Each	23230.00	232300.00
101	Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	150.00	Mtr	74.74	11211.00
102	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (D)120 mm outer dia.	150.00	Mtr	137.36	20604.00
103	Providing and fixing washbasin with single hole for pillar tap with C.I. or M.S. brackets painted white including sutting holes and making good the same but excluding fittings. (A) Vitreous China: (ii) Flat Back washbasin 550 mm x v 400mm size. (i) In white colour.	8.00	Each	1533.32	12266.57
104	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe.(A) Squating plate pattern white earthenware 550mm x 300mm.	6.00	Each	1640.22	9841.32
105	Providing and fixing C.P. brass waste for washbasin or sink. (B) 40mm dia.	6.00	Each	89.83	538.98
106	Providing and fixing Rubber plug for sink or wash basin.	6.00	Each	17.15	102.90
107	Providing and fixing chromium plated brass half trun flush cock of approved quality including fixing in pipe line etc. complete. (iii) 32mm dia.	6.00	Each	275.76	1654.56
108	Providing and fixing screw down bib taps of following size.(B) Brass chromium plated screws down Bib Tap. (i) 15mm dia.	6.00	Each	186.83	1120.98
109	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	6.00	Each	308.73	1852.36
110	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15 mm nominal bore Make: FLR-5053N Jaquar	6.00	Each	1564.49	9386.94

111	Providing and fixing chromium plated, bottle trap with necessary couplings of approved quality for wash basin.	6.00	Each	295.80	1774.79
112	Providing and fixing 600mm x 450mm bevelled edge mirrror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden pluge with C.P. brass screws and washers.	6.00	Each	859.41	5156.45
113	Providing & Fixing floor drain trap with cover & deep seal p trap at all floor levels of the following nominal diameter of self cleaning design with C.I. screwed down or hinged grating incl. cost of cutting making good the walls & floors with jali & 50 mm Inlet Pipe & 75 mm outlet etc. for all Floor as directed/aprroved by consultants. Size - 110 mm x 75mm Trap Cover Make: CCR-SC-102 Camry P Trap: 110X75 mm Astral	10.00	Each	1682.66	16826.60
114	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 110 mm diameter with jali of the following nominal diameter of self cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	6.00	Each	599.64	3597.82
116	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 75 mm diameter with jali of the following nominal diameter of self cleansing design with C.I scread down or hinged grating including the cost of cutting and making good the walls.	6.00	Each	586.27	3517.65
117	Soil Waste & Waste Water Pipe Providing & Fixing U-PVC pipe (SWR) confirming to IS no. 13592 (Type "B") for soil and waste discharge system at all floor levels incl. All fixtures like bends, tees, shoe etc. jointed with resin of approved brand & manufacture etc. comp. Make: Supreme/Astral/Finolex (A)110 mm dia	50.00	Rmt.	757.50	37875.00

118	Providing, laying and jointing in true line and level 110 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	50.00	Rmt.	878.57	43928.44
119	Basin & Urinal Outlet Waste Water Pipe Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Size: - 50 mm dia Make: Supreme/Astral/Finolex/Astor	25.00	Rmt.	409.05	10226.25
120	Vent/Rain Water Pipe Providing & fixing U-PVC pipes Confirming to IS no. 13592 (Type "A") for vent & rain water at all floor levels incl. fixtures like bends, tees, shoe etc joined with resin of approved brand & manufacture etc. comp. Make: Supreme/Astral/Finolex/Astor			0.00	
	(A)75mm dia	20.00	Rmt.	554.49	11089.80
	(B)150mm dia	100.00	Rmt.	724.17	72417.00
121	Providing and fixing in position cowel went to pipes. (C) 75mm dia	2.00	Each	393.04	786.08
122	Providing and fixing in position cowel went to pipes. (C) 100mm dia	2.00	Each	505.17	1010.34
123	Providing & fixing clamps with slotted base, U bolt & nut & washer for vertical pipes including the cost of cutting holes & making good the wall etc.			0.00	
	(A) 40 TO 65 mm Dia	10.00	Each	376.73	3767.30
	(B) 75 mm Dia.	6.00	Each	383.80	2302.80
	(C) 110 mm Dia.	100.00	Each	393.90	39390.00
124	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as direced including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	100.00	Rmt.	72.65	7264.93

125	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as direced including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	80.00	Rmt.	91.84	7347.14
126	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as direced including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	100.00	Rmt.	119.15	11914.97
127	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as direced including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	80.00	Rmt.	148.12	11849.32
128	Providing laying and jointing in true line and level 50mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as direced including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	60.00	Rmt.	195.67	11740.04
129	Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of following dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete. [B] 20 mm.	35.00	Rmt.	208.80	7307.91
130	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : Make: Zoloto/Normex/Audco			0.00	
	- 50 mm dia pipe	1.00	Each	5805.48	5805.48
	- 80 mm dia pipe	1.00	Each	14839.93	14839.93

131	Providing and fixing gun metal non- return valve of approved quality (screwed end) : - 50 mm dia pipe Make: Zoloto/Normex/Audco	1.00	Each	4094.54	4094.54
132	Providing and fixing ball cock of approved quality as directed. (B) Abonite (ii) 50mm dia.	2.00	Each	137.89	275.77
133	Providing & Fixing of UPVC Ball Valve for isolation to toilet inlet line for all floor. Make: Supreme/Astral/Finolex/Astor			0.00	
	(I) 32 mm dia	2.00	Each	1088.78	2177.56
	(II)40 mm dia	2.00	Each	2633.07	5266.14
134	Providing and fixing self actutating pilot opreated float control valve of flanged fit with pilot & needle valve pressure, water tank level sensor & all required accessories. Make: Flow-Tek Size: - 80 mm	1.00	Each	46315.57	46315.57
135	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps. (B) 150mm x 100mm size P or R type	4.00	Each	1246.92	4987.66
136	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg/Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(ii) Inside dimensions 600mm x 600 mm and 450mm deep for pipe line with one or two inlets.	10.00	Each	3660.76	36607.55
137	Extra over items 24.44 for every additional depth of 0.1M. of part thereof beyond 450mm depth for Brick masonry chamber. (ii) for 600mm x 600mm size.	4.00	Each	264.86	1059.45

138	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3-coarse sand :6- Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:3 (1-Cement : 3-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2-Coarse sand :4- stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5- Coarse sand) (1) A type depth 0.90 Metre for 150mm diameter sewer.	2.00	Each	11042.74	22085.49
139	Providing and fixing C.I. Manhole cover 0.60 M. x 0.45M. size having weight not less than 35Kg.	2.00	Each	958.17	1916.33
140	Providing and fixing cast iron steps of size 500mm x 150mm x 22.5mm and painting with two coats of Anti-corrosive paint etc. complete.	2.00	Each	207.66	415.31
141	Constructing Brick masonry road gully chamber 500mm x 450mm x 600mm including 500mm x 450mm C.I. horizontal grating wih frame complete.	2.00	Each	2017.19	4034.38
142	Providing laying (to level or slopes) and jointing reinforced concrete Light duty nonpressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (B) 150mm	10.00	mtr	257.19	2571.86
143	Providing laying (to level or slopes) and jointing reinforced concrete Light duty nonpressure pipes I.S. class NP2 of the following internal diameter with collars and butt ends prepared for collar joints including testing of joints complete. (D) 300mm	10.00	mtr	678.02	6780.23

144	Providing & laying ordinary C.C.1:1.5:3 mix for R.C.C. work incl. boxing, centering, vibrating, curing & mixed with approved water proofing cement compound or "CEMWET"or"PIDICRETE LW"integral water proofing admixture as water proofing agent to be mixed with 50 kg. cement bag shall be as recommended by the manufacture of the water proofing material, concrete work for top, bottom slab & side pardi for Under ground Tank & Item incl. Necessary excavation & refilling the available earth, 15 cm th' C.C 1:4:8 for bedding concrete, Half B.M. in C.M. 1:4 outside wall, inside R.C.C. pardi as per design, 10mm.th. water proofing cement plaster in C.M. 1:3 with smooth finishing,watering etc.Comp.to all inner face & bottom of tank curing etc. comp. incl. Locking arrangement, outlet, inlet, overflow & wash out pipe arrangement as necessary & C.I. Cover 0.60 x .045 weight not less then 35kg. etc. com. as per structural drawing excluding Steel & as directed by Engineer-in-charge	4000.00	Lits.	5.00	19998.00
145	Providing & Laying Commercial Quality white glazed tiles 6mm. th. in flooring laid on a bed of 20 mm. Av. Th.C.M.1:3(1cement :3 sand) & on wall Of R.C.C. Tank with necessary cement paste for fixing and joined with white cement slurry etc. complete. finished with flush pointing in white cement etc.com.	4000.00	Lits.	1.01	4040.00
146	Rain Water Harwesting	2.00	nos	50500.00	101000.00
147	Providing and erecting Inverter based approved make split air-conditioning unit consisting of condensing unit with variable speed fan motor, inverter type hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of extra supplied proper insulated copper tubing,drain PVC pipes suitable for (cost includes Eco Friendly green gas charging and 15A plug top & Remote Control ,Outdoor & MS Stand) with necessary core cutting.				
	(B) for 1.5 ton capacity	2.00	Each	41725.12	83450.24
	(C) 2 ton capacity	2.00	Each	51666.55	103333.10

148	Supply, Installation, Testing and commissioning of factory built floor mounted chilled water double skin type horizontal/vertical air handling units made of 25mm thick panels consisting of pre plasticized G.I. casing of thickness 0.8mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required, minimum 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tubes thickness not less than 0.5mm) cooling coil of 4 row deep, filter section with 50mm thick metal viscous/ washable synthetic type air prefilters, belt drive package with TEFC drive motor of efficiency class IE3 suitable for 415 ± 10% volts, 50Hz, 3 Phase AC supply with suitable variable frequency drive control panel, drain connectionsstainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.) and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification and of following capacities.	115.00	TR	65650.00	7549750.00

	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required. (B) 25mm Supplying and fixing 50 mm thick aluminium foil faced resin bonded fibre glass insulation (on duct) of density 24 kg/cu.m or mineral wool insulation(non combustible) of density 44 kg/cu m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape & covering with 0.63mmx19mm GI wire mesh netting butting all joints and laced with GI wire complete as per specifications and as required. (for indoor applications). Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as r (A) Thickness 0.63 mm sheet (22 Gauge (B)				
149	Aboveground Pipe Laying. Supply, Fabrication, Installation, Hydro Testing & Painting of Above Ground Pipe. With necessary Pipe Fitments (Flanges, Bands, Socket etc.), MS Support/Clamps/Hangers etc. Hardware (Gaskets, Nut-Bolts, Paint etc.), Consumables (Welding Rod, etc.) and Labour Charge. Quality: GI, C-Class (Heavy). Paint: UOM:-Price Per Running Meter Make: Asian/ Jindal/TATA Size: 150 mm	180.00	R.mtr	2676.50	481770.00
	Size: 100 mm	80.00	R.mtr	2181.60	174528.00
	Size: 80 mm	50.00	R.mtr	1868.50	93425.00
	Size: 65 mm	50.00	R.mtr	1464.50	73225.00
	Size: 50 mm	50.00	R.mtr	1262.50	63125.00

150	Gate /Sluice Valve Supply, Installation and Testing of: Gate/ Sluice (Rising Spindle -Screw & Yoke Type) Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: Cast Iron, Seat: Nitrile, Stem: SS. (With Flange Ends). Standard: ISI Marked. UOM:-Price Per Each No. Make; ZOLOTO/NORMEX/AUBCO Size: 150 mm	1.00	No.	25118.70	25118.70
	Size: 100 mm	1.00	No.	18200.20	18200.20
151	Butterfly Valve Supply, Installation and Testing of: Butterfly Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Cast Iron, Disk: SS, Seat: Nitrile. UOM:-Price Per Each No. Make; ZOLOTO/NORMEX/AUBCO Size: 150 mm	4.00	No.	8423.40	33693.60
	Size: 100 mm	4.00	No.	4151.10	16604.40
152	Air Release Valve- 25 mm Supply, Installation and Testing of: Air Release Valve Check Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Gunmetal / SS. UOM:-Price Per Each No. Make; ZOLOTO/NORMEX/AUBCO	3.00	No.	939.30	2817.90
153	Pressure Gauge with Siphon Tube and Cock. Supply, Installation and Testing of: Pressure Gauge with Siphon Tube and Cock. MOC:-4” Dial- Glycerin filled- Stainless Steel Body Pressure Gauge with GI Siphon Tube and Brass Cock. Size:-Dial: 4” (100 mm) Range: 0 – 16 Bar (kg/cm2) UOM:-Price Per Unit Make: H Guru, Waree, Micro, Wika	3.00	No.	2787.60	8362.80
154	Fire Hydrant Landing Valve (Stainless Steel (SS-304), ISI Marked): Supply, Installation and Testing of: Fire Hydrant Landing Valve with necessary pipe fitments, hardware and consumables. MOC:-Body: Stainless Steel (SS-304), Working Parts: Stainless Steel (SS-304), Coupling: Stainless Steel (SS-304), Standard: -ISI Marked. Size:-63 mm (Flange End: NB 75 mm, PCD 160 mm) UOM:-Price Per Each No. Make: New Age/Essel/Safex	6.00	No.	6666.00	39996.00

155	Fire Hose Pipe (Delivery Hose)- 63 mm x 15 m Supply, Installation and Testing of: Fire Hose with Hose Couplings. RRL (ISI Mark- Type B) Fire Hose. Hose Couplings: ISI Marked Stainless Steel. With SS Wire Binding. Standard: - ISI Marked & TAC Approved Hose. Size:-63 mm dia x 15m long Hose. UOM:-Price Per Each Set. Make: New Age/Essel/Safex	6.00	No.	7847.70	47086.20
156	Cabinet For Fire Hose (Hose Box)- Double Type Supply, Installation and Testing of: Fire Hose Cabinet (Hose Box) suitable to accommodate 02 no. of 15 m long fire hoses and 01 no. of nozzle. With Lock-n-key facility. Wall Mounting Design. MOC: 16 Gauge MS Box with Powder Coating Standard: - As per Guidelines. Size:- Suitable for 02 nos. of 15 m long hoses. UOM:-Price Per Each No. Make: New Age/Essel/Safex	6.00	No.	2777.50	16665.00
157	Fire Hose Nozzle- Short Branch Pipe Nozzle. Supply, Installation and Testing of: Short Branch-pipe Nozzle. MOC: Stainless Steel (SS-304). Standard: ISI Marked, Heavy Quality. Size:- 63 mm X 20 mm UOM:-Price Per Each No. Make: New Age/Essel/Safex	6.00	No.	1686.70	10120.20
158	Fire Hose Reel Set (ISI)-25 mm x 30 m -Rubber Hose. Supply, Installation and Testing of: Fire Hose Reel Set with necessary pipe fitments, hardware and consumables. MOC:- Stand Mounted, Heavy-duty RUBER hose. Shut-off Nozzle: SS-304. With Control Valve: SS- 50mm Ball Valve. Standard: ISI Marked. Heavy Quality. Size:-25 mm dia x 30 mtr long Hose. UOM:-Price Per Each No. Make: New Age/Essel/Safex	6.00	No.	18745.60	112473.60

159	Fire Service In-let (In-let Connection for Fire Brigade)-2 Way Type. Supply, Installation and Testing of: Fire Service Inlet with necessary hardware and consumables. MOC:-Body: Heavy-duty CI. Couplings/NRV: Gunmetal. Standard: -Made As per IS Standard- Heavy duty quality. Size:-Couplings: 63 mm, 100 mm E-table Flange End. UOM:-Price Per Each No. Make: New Age/Essel/Safex	2.00	No.	8746.60	17493.20
160	Fire Extinguisher- ABC Powder type, 6 kg. Supply, Installation and Testing of: ABC Powder Fire Extinguisher necessary hardware and consumables. Stored Pressure Mechanism. Charged with MAP-50 % (ABC) Dry Powder. With wall mounting clamp. Size:-6 kg Powder. UOM:-Price Per Each No. Make: Kanex/Safex/Minimax	10.00	No.	2335.12	23351.20
161	Fire Extinguisher- CO2 Gas type, 4.5 kg. Supply, Installation and Testing of: CO2 Gas Fire Extinguisher with necessary hardware and consumables. Standard: - Confirming to IS: 15683-2006 with ISI Mark. Size:-4.5 kg UOM:-Price Per Each No. Make: Kanex/Safex/Minimax	10.00	No.	6912.44	69124.40
162	Providing & Fixing of FIRE bucket round bottom of 9 liters capacity made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and Red out side with FIRE mark, filled with dry-sand and kept on existing stand provided or hung on wall hook. Make: As per Standard	4.00	No.	224.22	896.88
163	Providing & Fixing floor mounting stand for keeping four nos. of FIRE buckets comprising 1500 mm in length, 900 mm height frame made out of 30mm X30 mm X 4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of approved enameled silver paint. Make: As per Standard	1.00	No.	987.78	987.78

164	SETC of AUTOGLO GR Self Maintain Photoluminescent (SWGS) Siganages Tape & Route Marker in 1 mm thick Rigid Sheet ARS 10000 with Strong Self Adhesive , Working temperature -20 to+80'C Life : 10- 15 Years, Weather Proof, Self Extinguising, Non Radioactive, Non Peelable, Non Scratchable,Non Breakable, UV Cured Silk Screen Printed, As Per PSPA Class - A / DIN 67510 Part 2 / 60 Minutes / > 700 mcdl with High Glow Intensity Certified By Government Of India Lab For A Glow Period > 24 Hrs DRDO & ARAI Certified for All require QC test to Confirm As per the IS 9457-2005 ,IS 12349 (To be approved by EIC) the colour Should be RED/GREEN/BLUE/YELLOW with Graphics Symbol in White approved by Local Director of Fire and Emergency services ,Make PROLITE/AUTOLGLO /InstaMARK Approved by Client /Consultant Exit Sign Size: 100X300 mm	5.00	No.	565.60	2828.00
	Fire Exit with Man Running left/Rights Arrow Sign Size: 100X300 mm	5.00	No.	565.60	2828.00
	Fire Extinguisher Sign Size: 200X250 mm	5.00	No.	939.30	4696.50
	Fire Alarm Call Point Sign Size: 200X250 mm	5.00	No.	939.30	4696.50
	Fire Hose Reel Sign Size: 200X250 mm	5.00	No.	939.30	4696.50
	Fire Hydrant Sign Size: 100X300 mm	5.00	No.	565.60	2828.00
165	Design, Supply and installation of Safe Signage made of Zinc Sulphilde based glow in dark, Rigid sheet with High Luminous property enclosed in a transperent weather proof UV stabilized plastic pasted on 3 mm thick clear acrylic sheet such as EXITS, EMERGENCY EXIT, DO NOT USE LIFT DURING FIRE, FLOOR MARKING , FIRE LIFT, STAIRCASE EXIT, FIRE ALARM CALL POINT, FIRE HOSE REEL, FIRE HYDRANT POINT etc. (As per quotation)	20.00	Nos.	505.00	10100.00
166	Supply, installation, testing & commissioning of Cast iron body NRV conf, to IS: 5312, PN-l .6 complete with mating Flanges/ IS/ ABSI class #150 witty bolts nuts, washers, gaskets 3 mm thic1‹, etc., with all compl eve Accessories (a) 100 mm dia. (As per Quotation)	3.00	Nos.	6918.50	20755.50

167	Filling Of Gaps Between pipe and Core Cutting Hole with Chemical and Cement (As per Quotation)	10.00	Nos.	454.50	4545.00
168	Supply, fabrication and erection of Structure MS Material as like Angle, C channel, I Beam Etc. (As per Quotation)	80.00	Kg	101.00	8080.00
169	Supply, installation and commissioning of Flexible cable for 1.5 sq mm x 3 core for pressure switch (As per Quotation)	80.00	mtr	85.85	6868.00
170	Supply, installation and commissioning of Copper Armour cable for 10 HP Motor - 4 sq mm x 3 Core (As per Quotation)	80.00	mtr	222.20	17776.00
171	Supply, installation and commissioning of Copper Armour cable for 30 HP Motor - 6 sq mm x 3 Core (As per Quotation)	80.00	Mtr	313.10	25048.00
172	Painting with cleaning the surface, applying one coat of primer and two coats of P.O red paint (a) 65 mm dia. and abovw (As per Quotation)	100.00	Sq.ft	35.35	3535.00
173	Painting with cleaning the surface, applying one coat of primer and two coats of P.O red paint (b) 50 rum dia. and below {As per Quotation)	100.00	Sq.ft	35.35	3535.00
174	Supply, Installation and commissioning of Fire Alarm Panel Conventional type, 8 loops,with complete accessories. (As per Quotation)	1.00	Nos.	60600.00	60600.00
175	Supply, Installation and commissioning of smoke detectors/ heat detectors, with complete accessories. (As per Quotation)	20.00	Nos.	1212.00	24240.00
176	Supply, Installation and commissioning of Audio Hooters, with complete accessories. (As per quotation)	8.00	Nos.	1262.50	10100.00
177	Cable (Armour) for fire Alarm system	750.00		111.10	83325.00

178	Fire Hydrant Panel suitable for 10 hp Jockey pump, 30 hp (54 m3/hr @ 70 m head) main electrical pump and 50 hp (96 m3/lir @ 70 m Head) Diesel engine operated pump A)Incomer : MCCB - 1 Nos, R Y B Indication - 1 Set, Vaf Digital Meter - I Set. B) Outgoing : FI 30 HP Star Delta Starter - I For Main pump, F2 10 HP DOL, Starter - 1 For Jockey Pump, 13 Auto - On/ Off Diesel Pump With Battery Charger, Control Circuit With Auto - Manual On/Off, On/Off Trip Indication, On/Off Push Button. C) Fabrication : Dully Powder Coated PO Red Colour, Fabricated From 14/16 SWG, GI Sheet, IP-42 Protection,-Fixed Type Floor Mounted, Cable Entry : Bottom (As per.Quotation)	1.00	Nos.	97465.00	97465.00
179	Supplying and drawing 4 pair un-shielded twisted pair (UTP), 0.5 mm PVC insulated copper conductor un-armoured Cat-6 computer cable FR-LSH in existing surface/concealed, steel/PVC. conduit/ casing-n-capping as required.	850.00	Mtr	40.40	34340.00
180	Supply, installation testing and commissioning of 24 port PoE switch with 4 SFP ports, having security features like port security supports 64 MACs per port, auto surveillance VLAN, loopback detection automatically disables a port when a loop is detected, cable diagnostics allows administrators to determine cable status, UTP Cat. 5, Cat. 5e (100 m max.), full/half-duplex for 10/100 MBPS, full-duplex for 1000 MBPS, auto MDI/MDIX adjustment for all twisted-pair ports, switching capacity, 56 GBPS, maximum 64 bytes packet forwarding rate, 41.7mbps, Ports 1 to 24 compliant with 802.3 at	1.00	No.	51842.29	51842.29
	TOTAL AMOUNT :				**54227372.92**