

❖ **Abstract Sheet For Development Of Vegetable Market Opp. Sayajinagar Gruh, Tp 1 Fp 549/2 In West Zone**

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
1	1222.69	PART A - CIVIL WORK - EARTHWORK Excavation for foundation including sorting out and stacking the excavated stuff up to 50mt lead for A) Loose or soft soil - Upto 1.50 mt. depth	Cmt	120.01	146733.21
2	334.70	Excavation for foundation including sorting out and stacking the excavated stuff up to 50mt lead for A) Loose or soft soil - 1.50 mt.to 3.0 mt depth	Cmt	133.07	44537.19
3	1039.00	Filling available excavated Earth (Excluding Rock) in trench plinth side of foundation etc. in layer not exceeding 20 cm in depth consolidation each deposited layer by ramming and watering etc. complete.	Cmt	133.65	138865.78
4	208.00	Disposal of Surplus excavated Earth and/or debris etc. including all lifts, for 400 - 500 m lead outside of campus etc. complete.	Cmt	129.28	26890.24
5	312.00	Disposal of Surplus excavated Earth and/or debris etc. including all lifts, for 5 to 10 km lead outside of campus etc. complete.	L.S	237.87	74213.91
6	475.00	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete. (more than 10 ton)	Cmt	296.29	140739.46
7	894.00	Carring out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Consentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 % concntration inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S	Smt	97.18	86880.89
8	0.07	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle	Hectare	28455.09	1966.82
9	49.00	CEMENT CONCRETE Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (upto 10 ton)	Cum	2747.21	134613.29
10	140.00	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (upto 10 ton) for Grade Slab	Cum	3656.13	511858.10
11	34.00	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete (upto 10 ton)	Cum	471.69	16037.47

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12	137.00	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete. (more than 10 ton)	Cum	4247.57	581916.42
13	110.00	Providing and laying in position Ready Mixed M-250 grade concrete for reinforced cement concrete work, using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms 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 Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 450 kg	Cum	4896.32	538595.02
14	26.00	Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts, upto floor two level. (more than 10 ton)	Cum	4628.14	120331.72
15	44365.00	REINFORCEMENT Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level - Upto Plinth Level/ Foundation	Kg	77.29	3428757.90
16	510.00	FORMWORK Providing formwork of ordinary timber planking so as to give a rough finish including centering, shuttering and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4.00 mts and removal of the same for in situ reinforced cement concrete works. - A) Foundation and plinth	Sqm	179.36	91471.46
17	390.00	(B) Flat surfaces such as soffits of suspended floors slabs Landings and the like. (1) Floors etc. upto 200 mm in thickness. (more than 10 ton)	Sqm	260.88	101744.37
18	30.00	(H) (1) Sides and soffits of Beams Beam Haunchings cantilevers Girders Brackets and Lintels not exceeding 1 M. in Depth. (upto 10 ton)	Sqm	202.18	6065.45
19	198.00	BRICKWORK Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:6 (1- Cement : 6 -fine sand)(A) Modular (upto 10 ton) - In foundation and plinth	Cmt	4498.19	890640.93
20	625.00	PLASTER & PAINTING Providing 15mm thick cement plaster in single coat on	Smt.	171.21	107003.19

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:4 (1-cement:3-sand) – G.F.			
21	150.00	Providing 10mm thick cement plaster in single coat on Rough (Similar)side CEILINGs for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3 (1-cement:3-sand)	Smt.	196.64	29495.54
22	2957.00	20mm thick sand faced cement plaster on walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.	Smt.	337.52	998051.96
23	3730.00	PAINT Applying two coats of Birla or Asian (or equivalent) acrylic lapy (putty) & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	Smt.	40.59	151407.79
24	3600.00	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. + Extra over for every subsequent coat of wall painting with plastic emulsion pain of approved brand.	Smt.	80.87	291134.52
25	685.00	Finishing Wall with weather proof exterior plastic emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing surface to remove all dirt and remains of loose powdered materials etc comp. for all height.	Smt	117.40	80420.64
26	2957.00	Finishing walls with textured exterior paint of required shade New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm brick textured design wall	Smt	225.84	667797.05
27	110.00	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including cleanicn the surface of all dirt, dust and other foreign matter.	Smt	90.00	9900.12
28	136.00	FLOORING P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismentaling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for light shade (upto 10 ton)	Smt	1452.79	197580.00
29	144.00	Providing and laying Vitrified tiles 8 to 10 mm thick , inskrting risers of steps and dedo on 10mm thick cement	Smt	1577.32	227133.65

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		plaster 1:3 (1-cement : 3-coarse sand) and jointed with white cement slurry			
30	10.00	Providing and laying white glazed tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement. (upto 10 ton)	Smt	983.20	9832.05
31	207.00	Providing and laying polished kota stone slab 25mm thick in risers of steps,skirting Dedo and pillars laid on 10mm thick cement mortar 1:3 (1-Cement : 3 coarse sand) and jointed with gray cement slury mixed with pigment to match the shade of slab including rubbing and polishing etc. complete. (upto 10 ton)	Smt	1149.52	237950.93
32	11.00	Door & window Providing and fixing flush door shutters, solid core construction with frame of first class hardwood with cross board and face veneer or plywood face panels, including anodised alluminium butt hinges with necessary screws. (B) Non-decorative type and block board core anodised alluminium butt hinges in flush door shutters (2) 35 mm thick.	Sqm	1829.74	20127.10
33	2.00	Providing and fixing window having extruded aluminum Colour anodized section frame main outer size 63.50 x 38.10 x 1.95 mm(of Jindal Section no:4605,@ Wt 1.094 Kg / Rmt), horizontal two track member size 61.85 mm x 31.75 mm x 1.20mm (of Jindal Section no: 8687 @ wt.of 0.695 Kg/mt), vertical member of size 61.85 mm x 31.75mm x 1.30 mm (of Jindal Section no:8758 @ wt.of 0.0.659 Kg/mt) with sliding shutters of horizontal member size 40mm x 18mm x 1.29mm (of Jindal Section no:8949 @ wt.of 0.456Kg/mt), vertical member of size 40mm x 18mm x 1.29mm (of Jindal Section no:8947 @ wt.of 0.456Kg/mt/ Section 8948, @ Wt. 0.457 Kg/mt) with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc complete for window.	smt	1713.70	3427.39
34	390.00	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame alround, square or round bars with round headed bolts and nuts or by screws (A) Plain Grill	KG	105.18	41020.75
35	50.00	PLUMBING Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings make PRINCE/ SUPREME/ ASTRAL/ FINOLEX or equivalent 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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	RMT	72.65	3632.47
36	120.00	Providing laying and jointing in true line and level 25mm	RMT	91.84	11020.72

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		dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings make PRINCE/ SUPREME/ ASTRAL/ FINOLEX or equivalent 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 cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.			
37	3.00	Providing and fixing in position cowel went to pipes.(B) 75mm dia.	EACH	393.04	1179.12
38	6.00	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 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.	EACH	585.37	3512.19
39	2.00	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. (A) 100mm x 100mm size P type. (upto 10 ton)	EACH	1292.19	2584.39
40	15.00	Providing and laying (to level or slopes) and jointing with stiff mixture of Cement Mortar in proportion 1:1 Selt glazed stoneware pipes including testing of pipes and joints complete.(B) 150mm dia. (upto 10 ton)	RMT	312.76	4691.35
41	4.00	Providing and fixing water closet squatting Pan(EUROPEON type W.C. Pan) (Earthwork, bed concrete, foot reste and trap to be measured and paid for separately) (A) Vitreous China.(I) Long pattern = White colour	EACH	1336.30	5345.20
42	2.00	Providing and fixing plastic seat and cover for wash down water closer with C.P. brass hinges and rubber buffers. (B) Black plastic seal and cover.	EACH	291.33	582.67
43	2.00	Providing and fixing Gun metal check or non-return fullway wheel valve.(D) 32 mm dia.	EACH	314.73	629.45
44	4.00	Providing and fixing screw down bib taps of following size.(A) Brass screw down bib tap polished bright. (i) 15mm dia.	EACH	186.83	747.32
45	2.00	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.	EACH	1418.56	2837.11
46	2.00	Providing and fixing M.I. fisher union for washbasin or sink. (B) 40mm dia.	EACH	89.83	179.66
47	2.00	Providing and fixing 100mm sand cast iron grating for gully, floor or Nahni trap.	EACH	36.98	73.95
48	4.00	Providing and fixing chromium plated brass half trun flush cock of approved quality including fixing in pipe line etc. complete.(ii) 25mm dia.	EACH	263.77	1055.09
49	4.00	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	EACH	308.73	1234.91

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50	4.00	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe. (A) Squating plate pattern white earthenware 50mm x 300mm.	EACH	1597.91	6391.64
51	2000.00	Providing erecting and fixing double coated ISI water tank of required capacity each with all necessary fittings and connection etc. complete on terrace	Litter	3.95	7898.20
52	16.00	Providing and laying cement concrete 1:3:6 (1- Cement : 3- Coarse sand : 6- Graded brick bat aggregate 40mm normal size) and curing complete excluding cost of formwork in slopes terrace for area for water proofing work as directed by EIC.	Cmt	3060.65	48970.46
53	116.00	Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them upto 15 cm along the wall,clearing with water and oxalic acid and including using water proofing material at the rate of 1 Kg./bag of cement. etc. for water proofing work as directed by EIC.	Smt	765.97	88852.97
54	116.00	Preparing and applying of water soluble, nonflammable, reactive and penetrative silane nanotechnology with water (<1000 ppm TDS) in the ratio of 1 liter silane :20 liter water mixed with 0.5 liter acrylic copolymer polymer compatible and stable in silane solution. Take 1 liter of silane nanotechnology and add in 20 liter water in drum under manual stirring and then add 0.5 liter acrylic copolymer under manual stirring and mix completely. Spray apply the solution at the rate of 1 liter per sqm on horizontal and 0.5 liter per sqm on vertical new or old cementitious / concrete surface . (For very dense concrete of M50 and above for bridges may not absorb 1 liter per sq meter so reduce the water of dilution to 1:10) Horizontal Surface	Smt	81.27	9427.87
55	75.00	Providing cement vata (10cm. x 10 cm. size) quarter round in cement mortar 1:1 including neat cement finishing, watering etc. complete.	Smt	24.28	1821.03
56	1.00	Proving Borewell witch all accessories isi approved materials bore 6 inch and as per site condition water level required depth All materials bore wich submersible pum set use as per tender details our engineer in charge	Nos	111100.00	111100.00
57	25720.00	Structural steel work (Confirming to IS 4923-1997) riveted,bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column (122 x 61 x 3.6mm)	KG	131.15	3373139.42
58	150.00	Painting two coats on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade	SMT	90.00	13500.17

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		including clean the surface of all dirt, dust and other foreign matter.			
59	90.00	Supply, Installation, Testing & Commissioning of following size of Grid Tied Solar Power Plant with Solar Panels (ALMM approved): Frame Material : Anodized Aluminum alloy Frame With Twin Wall Profile, Front Cover : High Transmission Low-Iron Tempered Glass (AR Coated), High efficiency and positive power tolerance Pmax: 0/+5, Module Efficiency should be approx. 19.5%-22%, Normal operating temperature 45°C, Junction Box with Waterproof IP67 & MC4 Compatible and Enclosed with Bypass diodes, 100% Electroluminescence test to ensure error free Modules, Thep. temp. co-efficient of the PV module shall equal or better than -0.45%/degree C. Solar PV modules of minimum fill factor 75% to be used. Unit Production:- More than 4.5 Unit /kw /day (Actual)(1Year Avg) With 10 year Product warranty and 25 year Linear Power Warranty includes all mechanical and electrical parameters of the Solar panel. Modules must be complied to the DCR(Domestic content requirements). The Ration of AC to DC is 5:6 for the Installation capacity which are given in AC KW. Solar Inverter: MPPT Range: MPPT Range: 80-1000 V , Max efficiency: 97.5% - 98.9%, O/p Frequency: 50/60Hz, Operating Altitude (m) ≤4000, O/p Power Factor: ~1, O/P THDi: <3%, Operating Temperature Range: -25~60°C, Integrated protection of Inverter are Anti-islanding Protection, Input Reverse Polarity Protection, Insulation Resistor Detection, Ground fault protection, Residual Current Monitoring Unit, Output Over Current Protection, Output Short Circuit Protection, Output Over Voltage Protection, PV array string fault Protection. Protection Degree: IP65, User Interface LCD & APP, Datalogger & Communication: GPRS / Wi-Fi. Integrated, Input Reverse Polarity Protection Integrated, Insulation Resistor Detection Integrated, Residual Current Monitoring Unit Integrated, Output Over Current Protection Integrated, Output Short Circuit Protection Integrated, Output Over Voltage Protection Integrated, Protection Degree: IP65, User Interface LCD & APP,Datalogger & Communication: GPRS / Wi-Fi, Module Mounting Structure: The mounting (Rectangular pipe / square pipe / circular pipe) with requisite cross bars, nuts and bolts, etc. shall be Hot deep galvanized with minimum 80micron coating. The Rectangular / square /circular hollow pipe section used for the structure should have a minimum thickness of 2.0 mm. other than above, the material thickness should be minimum 2.5 mm. A certificate of a structural engineer certifying the strength and stability of the mounting structure to withstand the weight and wind speed of 150 km/hour	Kwt	39802.08	3582187.20

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		throughout the life span of 25 years of the system, shall be submitted by the vendors. Hot Dipped Galvanized steel coils. suitable arrangement for base plate for foundation , solar panel mounting, the structure should be suitable for carry the load of solar panel,wiring, sprinkler system etc. with necessary foundation work/wall mount, j bolt, anchor fastner etc. the nut bolt used for installtion of stucture should be (SS 304) quality.The ground clearance of the bottom most edge of solar panel shall not be less than 300 mm to 1200 mm or as per site's technical/feasibility requirement. a. Column –The minimum section (thickness) should be 60MM*40MM b. Rafter - The minimum section (thickness) should be 60MM*40MM c. Purlin - The minimum section (thickness) should be 40MM * 40MM Balane of System with necessary Swichgears (Suitabel size and protection of ACDB & DCDB), inter connecting wiring, earthing system as per the CEIG drawing approval, lightninging arrester system as per the CEIG drawing approval, all liasoning work with various gov. dipartment like state nodal agency,DISCOM & CEIG is included in agency scope (Excluding All charges namely GEDA Application fees, Solar connectivity Charges, Meter connectivity Charges, Meter testing Charges and system stability/strenthning charges.) (F) Grid Tied Solar Power System: 101 - 250 kW (3 - phase)			
60	680.00	Providing and Fixing Corrugated GI Sheets of 0.45 Gauge with desired colour and size as per shed adjoining by using adequate size and length bolts of standard make etc complete as described by engineer incharge.	Sqmt./ rmt	585.80	398344.00
61	680.00	Providing and fixiiing ACP false ceiling cover to shead bottam with alluminium framing size 1.5mm thick and gape filling for use silicon including scaffolding work for fixing.	Sqmt./ rmt	3260.28	2216990.40
62	32.00	Make rectangular Display LED Sign, board base make ACP Sheet 8' x 4' with alluminium panal and led sign latter vegetable market sign led board with led driver light and timer diver inculed	Sqft	989.80	31673.60
63	100.00	Providing and fixing Toughened Glass 12 mm thickness	Sqmt	1944.25	194425.00
64	626.00	Providing and fixing Color Coated Puf Roofing Sheet 50mm thickness	Sqmt	1111.00	695486.00
65	120.00	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	Cum	564.16	67698.68
66	760.00	Part B - Road Work R.C.C. Road And Paving Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as	Cum	106.81	81173.70

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		directed upto 50Mt.lead.			
67	160.00	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation)(E) From Borrow area within 3.0 Km. lead (more than 10 ton)	Cum	236.07	37770.77
68	160.00	Rolling of earthwork in layers with power roller including filling in depressions which occur during the process. (more than 10 ton)	Cum	13.42	2147.66
69	160.00	Watering of earth work as directed.	Cum	9.46	1514.19
70	60.00	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth (upto 10 ton)	Cum	2747.21	164832.61
71	86.00	Providing and laying in position Ready Mixed M-250 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms 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 Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 450 kg)	Cum	4896.32	421083.38
72	2564.00	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	Kg	77.29	198159.25
73	570.00	Finishing of C.C.Road by providing labour charges by using vacuum dewatering pump floater surface vibrator including making grooves Rufe finish to surface levelling up etc. comp As Per engineer in charge.	Sqm	303.00	172710.00
74	570.00	Painting lines, dashes, arrows, letters etc on roads, Air fields and like in two coats with road marking paint, brushing including cleaning the surface of all dirt, dust and other foreign matter. (i) Over 10cm in width As Per engineer in charge.	Sqmt.	126.21	71939.47
75	8.00	Part C - Electrification Work Section-1 Point Wiring Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose	pt	603.98	4831.84

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		or H.D. Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat III			
76	60.00	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. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	Pt	485.81	29148.60
77	75.00	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete catt-iii	pt	638.32	47874.00
78	75.00	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.(a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete Cat. III	pt	711.04	53328.00
79	8.00	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board	pt	475.71	3805.68
80	78.00	Point wiring for on board Looped Plug with 6A Modular	pt	257.55	20088.90

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		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 catt-iii			
81	480.00	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	mtr	33.33	15998.40
82	220.00	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 (d) 40 mm	mtr	67.67	14887.40
83	80.00	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	mtr.	21.21	1696.80
84	400.00	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 (A) With medium class Rigid PVC pipe and accessories - (a) 2 wire 1.5 sq. mm	mtr	62.62	25048.00
85	600.00	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 (A) With medium class Rigid PVC pipe and accessories - (b) 2 wire 2.5 sq. mm	mtr	82.82	49692.00
86	120.00	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 (A) with medium class Rigid PVC pipe and accessories. - (g) 4 wire 4 sq. mm	Mtr.	180.79	21694.80
87	90.00	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 (A) with medium class Rigid PVC pipe and accessories. (i) 4 wire 10 sq. mm (use earth wire of 4 sq.mm)	Mtr.	425.21	38268.90
88	20.00	Providing and erecting XLPE(IS:7098)(I)-88 ISI	mtr	117.16	2343.20

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		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 - (A) 4 core 4 Sq. mm			
89	9.00	Section – 2 Led Indoor Fittings Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85% (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (i) 5-10 Watts, Surge-2 KV, IP-20, conventional 1 to 2 feet Cat III	each	165.64	1490.76
90		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.)		0.00	0.00
91	68.00	(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	each	1794.77	122044.36
92	20.00	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	each	2201.80	44036.00

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount Accoring to estimated quantities
		LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. above 24 to 36 watts			
93	20.00	Supplying and erecting approved make Conical Pole (Standard) Made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759 with required base plate and integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable terminationas erected on suitable foundation (included) with necessary GI nut-bolts/J-Bolts. as per details given by manufacturer considering site requirement.The length of poles are as below. (B) 4 Mtr. Long 65mm Top X125 mm bottom dia, 3mm thickness.	each	5179.28	103585.60
94	16.00	Providing and erecting street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [A] Single Arm bracket 1 Mtr	each	614.08	9825.28
95	4.00	Providing and erecting street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [B] Double Arm Bracket 1 Mtr	each	829.21	3316.84
96	20.00	Providing and erecting Miniature circuit breaker single pole 0.5A to 2A system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark	nos	270.68	5413.60
97	12.00	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 CatIII	each	112.11	1345.32
98	1.00	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking	each	737.30	737.30

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III			
99	8.00	(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (ii)6 way	each	1911.93	15295.44
100	8.00	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP Cat. III	each	1969.50	15756.00
101	1.00	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.ICS=100% of ICU only Cat III	Each	6173.12	6173.12
102	1.00	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. Rating erected as directed. (iii) 63 Amps. FP	Each	3040.10	3040.10
103	1.00	Cub Board Providing and erecting Steel cover as per drawing using 16 SWG M.S.sheet of following depth, to house the switch gear etc. complete with locking arrangement and lock with duplicate keys per cupboard and door handles erected with necessary support and painting. [One coat red oxide and two coat enamel paint] (A) with angle iron frame (ii) For 40 cms. Depth	Each	4228.87	4228.87
104	150.00	Providing and erecting XLPE (IS: 7098) (I)-88 ISI armoured cable multistrand / Solid 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 4 Sq. mm	Mtr	364.61	54691.50
105	50.00	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. (A) 4 core 10 Sq. mm	Mtr	676.70	33835.00
106	185.00	Providing and erecting XLPE (IS: 7098) (I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 10 Sq. mm	Mtr	140.39	25972.15

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
107	10.00	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	nos	13.13	131.30
108	10.00	(A) 1.5/ 2.5/4/6 Sq.mm	nos	6.06	60.60
109	20.00	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq.mm	nos	8.08	161.60
110	20.00	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	nos	10.10	202.00
111	40.00	Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	each	1948.29	77931.60
112	40.00	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	each	108.07	4322.80
113	40.00	Supplying & erecting Fan Hook of 10 mm M.S. Round bar grouted in RCC slab with Making the site as original.	each	43.43	1737.20
114	4.00	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM cat ii	each	2054.34	8217.36
115	41.00	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	each	18.18	745.38
116	1.00	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic enclosure & transparent cover erected as required with necessary connection erected as directed.	each	3168.37	3168.37
117	2.00	Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.	each	176.75	353.50
118	1.00	SECTION 9 Motor Pump S.I.T.C. of single phase submersible pump set suitable for 100 mm size or more dia bore well having motor capacity and discharge as under with necessary panel box. Lifting and Lowering taken extra.(b) Motor rating 1.5 HP (16 stage) pump having capacity of 50 LPM at 60 mtr head	each	17607.33	17607.33

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
		suitable for 32 mm dia. delivery pipe			
119	50.00	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (B) 3 Core x 2.5 Sq. mm.	Mtr	104.03	5201.50
120	3.00	Providing Water proof straight Joint in PVC insulated flat flexible copper cable by using insulating material, water proofing material, & making the joint complete. (A) Up to 10Sq. mm	each	189.88	569.64
121	100.00	Supplying of following size of STANDARD UPVC column pipe with coupler and wire lock [B] 32 mm dia	RMT	179.78	17978.00
122	2.00	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. (c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg.	each	8636.51	17273.02
123	1.00	Providing supplyying errecting in position individual electric connections from concerene electric supply board(MGVCL) inclding all taxes and liasoning charges with necesaary test required by authority as directed by EIC for THREE PHASE .	each	14140.00	14140.00
		Total Amount in Rs.			23142980.53
		Total Amount in Rs. (Say).			23142981.00
I/ We am/ are willing to carry out the work @ _____ % above /Below _____ Percentage (should be written in figures and words) of the Estimate rates mentioned above amount of my/ our Tender work out as under					
* Estimated Amount			* Estimated Amount		
Put On Tender Rs. 2,31,42,981.00			Put On Tender Rs. 2,31,42,981.00		
Deduct.....% Below Rs.			Add% Above Rs.		
Net Rs.:			Total Rs.:		

Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
In Word:			In Word:		
(* Please strike out whichever is not applicable.)					
Note 1: All works shall be carried out as per public works department handbook and other sepecifications of division or as directed.					
નોંધ ૧: બધું જ કામ બાંધકામ વિભાગની પુસ્તિકા અને ડિવિઝનની બીજી ખાસ વિગત મુજબ અથવા સુચના પ્રમાણે કરી આપવાનું રહેશે.					
Note 2: All the columns is Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.					
નોંધ ૨: અનુસૂચિમાં બધા ખાનાની વિગતો સહીથી ભરવી અને છેલ્લા ખાનાની નોંધોનો સરવાળો કરી કોન્ટ્રાક્ટરે પોતાની સહી કરવી.					
Note 3: Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.					
નોંધ ૩: ટાંકેલા દરમાં, સ્થળની (કામના આરંભે અને પૂરું થાય તે વખતે) દરેક રીતે સાફસૂફી કરવાનો સમાવેશ થાય છે, અને તે દર તમામ પરિસ્થિતિ, સ્થળ, ભેજ, હવામાન, વગેરે હેઠળ કામ માટે અમલમાં રહેશે.					
Note 4: To be continued on additional sheets, if found necessary.					
નોંધ ૪: જરૂર જણાય વધારાના કાગળો જોડી ચાલું રાખવું.					
Name Of Work : Development Of Vegetable Market Opp. Sayajinagar Gruh, Tp 1 Fp 549/2 In West Zone					
Item No.	Quantities Estimated but may be more or less	Item Work	Unit	Tender Rates	Total Amount According to estimated quantities
Signature of Contractor with Seal			Signature of Contracting Authority with Seal		