

TS Register No: 1436/2021-2022

AS Register No:1474/2021-2022

**Community Micro Irrigation work at Kunnamkattypathy(Construction of Irrigation room, water sump) in Kozhinjampara Panchayath in Palakkad District**

Detailed Estimate

(Dsr year: 2018, Cost Index Applied for this estimate is 34.75%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
<b>1 APPENDIX A- CONSTRUCTION OF IRRIGATION ROOM</b>								
1	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared							
	Irrigation room (8 m X 9 m)	1	10.000	11.000			110.000	
							Total Quantity	110.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	110.000 sqm
							Say 110.000 sqm @ Rs 14.69 / sqm	<b>Rs 1615.90</b>
2	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed. All kinds of soil							
	Trapezoidal Footing	9	1.800	1.800	1.800		52.489	
	PCC for Plinth Beam	3	9.000	0.300	0.200		1.620	
		3	7.600	0.300	0.200		1.368	
	Office room	1	2+1.8	0.300	0.400		0.456	
							Total Quantity	55.933 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	55.933 cum
							Say 55.933 cum @ Rs 212.70 / cum	<b>Rs 11896.95</b>
3	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
	For footing	9	1.700	1.700	0.100		2.601	
	Step	1	2.700	0.700	0.100		0.189	

	Flooring	1	7.600	8.600	0.100		6.537		
	Trapezoidal Footing	9	1.800	1.800	0.100		2.917		
	PCC for Plinth Beam	3	9.000	0.300	0.100		0.810		
		3	7.600	0.300	0.100		0.684		
	Office room foundation	1	2+1.8	0.300	0.100		0.114		
	Total Quantity						13.852 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						13.852 cum		
	Say 13.852 cum @ Rs 6772.67 / cum						<b>Rs 93815.02</b>		
4	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size								
	Trapezoidal footing	9	1.500	1.500	0.250		5.063		
	$\frac{1}{3}(A1+A2+(\text{sqr}A1*A2))*H$	9	1/3	3.370	0.250		2.528		
	stub columns	9	0.600	0.400	1.200		2.592		
	Plinth beam	3	9.000	0.200	0.450		2.430		
		3	7.600	0.200	0.450		2.052		
	Total Quantity						14.665 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						14.665 cum		
	Say 14.665 cum @ Rs 9028.86 / cum						<b>Rs 132408.23</b>		
5	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.								
	basement	1	8.600	7.600	0.350		22.876		
	Total Quantity						22.876 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						22.876 cum		
	Say 22.876 cum @ Rs 256.97 / cum						<b>Rs 5878.45</b>		
6	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth								

	level with:Cement mortar 1:6 (1 cement : 6 coarse sand)						
	foundation for office room	1	3.800	0.300	0.300		0.342
	Total Quantity						0.342 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						0.342 cum
	Say 0.342 cum @ Rs 7160.14 / cum						<b>Rs 2448.77</b>
7	50.6.1.4 Solid block masonry using pre cast solid blocks (Factory made) of size 30x20x20cm or nearest available size confirming to IS 2185 part I of 1979 for foundation and plinth with thickness 20cm and above in: CM 1:6 ( 1 cement : 6 coarse sand ) etc complete						
	wall	2	8.000	0.200	3.600		11.521
	wall	2	8.600	0.200	3.600		12.384
	Office room wall	1	2.000	0.200	3.600		1.441
	Office Room wall	1	1.800	0.200	3.600		1.297
	D2	1	0.800	0.200	2.100		-0.336
	Rolling Shutter	1	2.000	2.100	2.100		-8.820
	W1	2	2.000	0.200	1.500		-1.200
	W2	1	1.500	0.200	1.500		-0.450
	V1	1	0.600	0.200	0.600		-0.072
	Columns	9	0.400	0.200	3.600		-2.592
	Beam- resting on column	2	9.000	0.200	0.300		-1.080
	Beam- resting on column	2	7.600	0.200	0.300		-0.911
	Total Quantity						26.643 cum
	Total Deducted Quantity						-15.461 cum
	Net Total Quantity						11.182 cum
	Say 11.182 cum @ Rs 5933.66 / cum						<b>Rs 66350.19</b>
8	5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3( 1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)						
	Columns	9	0.400	0.200	3.600		2.593
	Total Quantity						2.593 cum

		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					2.593 cum	
		Say 2.593 cum @ Rs 10886.18 / cum					<b>Rs 28227.86</b>	
9	<p>5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15<sup>0</sup> landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).</p>							
	Flat shade	3	2.600	0.600	0.100		0.469	
		1	2.100	0.600	0.100		0.126	
		1	1.200	0.600	0.100		0.072	
	Flat slab	1	8.200	9.200	0.120		9.053	
	Lintel beam	2	8.000	0.200	0.150		0.480	
		2	8.6000	0.200	0.150		0.516	
	Lintel beam Office room	1	3.800	0.200	0.150		0.114	
	Beam- resting on column	2	9.000	0.200	0.300		1.080	
	Beam- resting on column	2	7.600	0.200	0.300		0.912	
	Counter beam	1	9+8	0.200	0.450		1.531	
		Total Quantity					14.353 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					14.353 cum	
		Say 14.353 cum @ Rs 11421.68 / cum					<b>Rs 163935.37</b>	
10	<p>5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more</p>							
	Trapezoidal footing	9	1.500	1.500	0.250	100.0	506.250	
	$\frac{1}{3}*(A1+A2+(\text{sqr}A1*A2))*H$	9	1/3	3.370	0.250	100.0	252.750	
	stub columns	9	0.400	0.200	1.200	100.0	86.400	
	Plinth beam	3	9.000	0.200	0.450	100.0	243.001	
		3	7.600	0.200	0.450	100.0	205.201	
		Total Quantity					1293.602 kilogram	
		Total Deducted Quantity					0.000 kilogram	

	Net Total Quantity						1293.602 kilogram	
	Say 1293.602 kilogram @ Rs 97.69 / kilogram						<b>Rs 126371.98</b>	
11	5.22A.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo - Mechanically Treated bars of grade Fe-500D or more							
	Columns	9	0.400	0.200	3.600	80.0	207.361	
	Flat shade	3	2.600	0.600	0.100	80.0	37.441	
		1	2.100	0.600	0.100	80.0	10.080	
		1	1.200	0.600	0.100	80.0	5.760	
	Flat slab	1	8.200	9.200	0.120	80.0	724.224	
	Lintel beam	2	8.000	0.200	0.150	80.0	38.400	
		2	8.6000	0.200	0.150	80.0	41.280	
	Lintel beam Office room	1	3.800	0.200	0.150	80.0	9.120	
	Beam- resting on column	2	9.000	0.200	0.300	80.0	86.400	
	Beam- resting on column	2	7.600	0.200	0.300	80.0	72.960	
	Counter beam	1	9+8	0.200	0.450	80.0	122.401	
	Total Quantity						1355.427 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1355.427 kg	
	Say 1355.427 kg @ Rs 97.69 / kg						<b>Rs 132411.66</b>	
12	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete							
	Footing PCC	4*9	1.700		0.100		6.120	
	Trapezoidal footing	4*9	1.500		0.250		13.500	
	Stub Column	2*9	0.400		1.200		8.640	
		2*9	0.200		1.200		4.320	
	Total Quantity						32.580 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						32.580 sqm	
	Say 32.580 sqm @ Rs 333.24 / sqm						<b>Rs 10856.96</b>	
13	5.9.6							

	Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	Columns	2*9	0.400		3.600		25.920	
		2*9	0.200		3.600		12.960	
	Total Quantity						38.880 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						38.880 sqm	
	Say 38.880 sqm @ Rs 858.29 / sqm						<b>Rs 33370.32</b>	
14	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Lintel inner	2	7.600	0.150			2.280	
	lintel outer	2	8.600	0.150			2.580	
	Lintel @ Office room Inner	2	2.000	0.150			0.600	
	Lintel @ Office room outer	2	1.800	0.150			0.540	
	Lintel beam	2	8.000		0.150		2.400	
		2	8.6000		0.150		2.580	
	Lintel beam Office room	1	3.800		0.150		0.570	
	Beam- resting on column	2	9.000		0.300		5.400	
		2	8.600		0.300		5.160	
	Beam- resting on column	2	8.000		0.300		4.800	
		2	7.600		0.300		4.560	
	COUNTER BEAM	2	7.600		0.450		6.840	
	COUNTER BEAM bottom	1	7.600	0.200			1.520	
	COUNTER BEAM	2	8.600		0.450		7.740	
		2	8.600	0.200			3.440	
	Total Quantity						51.010 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						51.010 sqm	
	Say 51.010 sqm @ Rs 645.79 / sqm						<b>Rs 32941.75</b>	

15	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform						
	Slab bottom	1	8.200	9.200			75.440
	Slab side	2	8.200		0.120		1.968
		2	9.200		0.120		2.208
	Wall area	2	8.000	0.200			-3.200
		3	8.600	0.200			-5.160
		1	2.000	0.200			-0.400
		1	1.8000	0.200			-0.360
	Flat shade bottom	3	2.600	0.600			4.680
		1	2.100	0.600			1.260
		1	0.600	0.600			0.360
	Flat shade side	3	2.600		0.100		0.780
		1	2.100		0.100		0.211
		11	0.600		0.100		0.660
	Total Quantity						87.567 sqm
	Total Deducted Quantity						-9.120 sqm
	Net Total Quantity						78.447 sqm
	Say 78.447 sqm @ Rs 810.72 / sqm						<b>Rs 63598.55</b>
16	13.1.2 12 mm cement plaster of mix:1:6 (1 cement : 6 fine sand).						
	Step side	2	0.300		0.150		0.090
		2	0.600		0.150		0.180
	Step top	1	2.000	0.300			0.600
		1	2.600	0.300			0.780
		2	0.300	0.300			0.180
	Wall outer	2	8.000		3.600		57.600
		2	9.000		3.600		64.800
	Wall inner	2	7.600		3.600		54.720
		2	8.600		3.600		61.920
		2	1.800		3.600		12.960
		2	2.000		3.600		14.400

	R.S	1	2.000		2.100		-4.200		
	D1	1	0.900		2.100		-1.890		
	D2	1	0.800		2.100		-1.680		
	W1	2	2.000		1.500		-6.000		
	W2	1	1.500		1.500		-2.250		
	V1	1	0.600		0.600		-0.360		
		Total Quantity					268.230 sqm		
		Total Deducted Quantity					-16.380 sqm		
		Net Total Quantity					251.850 sqm		
		Say 251.850 sqm @ Rs 297.39 / sqm					<b>Rs 74897.67</b>		
17	13.16.1 6 mm cement plaster of mix:1:3 ( 1 cement : 3 fine sand)								
	Slab bottom	1	8.200	9.200			75.440		
	Slab side	2	8.200		0.120		1.968		
		2	9.200		0.120		2.208		
	Wall area	2	8.000	0.200			-3.200		
		2	9.600	0.200			-3.840		
		1	2.000	0.200			-0.400		
		1	1.800	0.200			-0.360		
	Flat shade bottom	3	2.600	0.600			4.680		
		1	2.100	0.600			1.260		
		1	0.600	0.600			0.360		
	Flat shade side	3	2.600		0.100		0.780		
		1	2.100		0.100		0.211		
		11	0.600		0.100		0.660		
	BEAM	4	8.600		0.450		15.480		
		4	7.600		0.450		13.680		
		Total Quantity					116.727 sqm		
		Total Deducted Quantity					-7.800 sqm		
		Net Total Quantity					108.927 sqm		
		Say 108.927 sqm @ Rs 265.93 / sqm					<b>Rs 28966.96</b>		
18	13.46.1 Finishing walls with Acrylic Smooth exterior paint of required shade:New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)								





	W1	2	2.000	1.500		18.0	108.000	(18kg/m2)	
	W2	1	1.500	1.500		18.0	40.500	(18kg/m2)	
	V	1	0.600	0.600		18.0	6.480	(18kg/m2)	
	Total Quantity						154.980 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						154.980 kg		
	Say 154.980 kg @ Rs 193.37 / kg						<b>Rs 29968.48</b>		
22	10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.								
	D1	1	0.900	2.100		25.0	47.250	(25kg/m2)	
	Total Quantity						47.250 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						47.250 kg		
	Say 47.250 kg @ Rs 119.05 / kg						<b>Rs 5625.11</b>		
23	od163178/2021_2022 Providing and fixing factory made uPVC white colour sliding glazed window upto 1.80 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 +/- 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 +/- 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)								
	W1	2	2.000	1.500			6.000	(25kg/m2)	
	W2	1	1.500	1.500			2.250	(25kg/m2)	
	V	1	0.600	0.600			0.360	(25kg/m2)	
	Total Quantity						8.610 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						8.610 sqm		

SI No	Description	No	L	B	D	CF	Quantity	Remark
Say 8.610 sqm @ Rs 9283.66 / sqm							<b>Rs 79932.31</b>	
<b>2 Construction of Sump tank</b>								
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
	Sump Tank	1	11.000	6.000	1.500		99.000	
Total Quantity							99.000 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							99.000 cum	
Say 99.000 cum @ Rs 212.70 / cum							<b>Rs 21057.30</b>	
2	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared							
		1	11.500	6.500			74.750	
Total Quantity							74.750 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							74.750 sqm	
Say 74.750 sqm @ Rs 14.69 / sqm							<b>Rs 1098.08</b>	
3	2.26.1 Extra for every additional lift 1.5 m or part there of in excavation / banking excavated or stacked materials.All kinds of soil							
		1	11.000	6.000	1.500		99.000	
Total Quantity							99.000 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							99.000 cum	
Say 99.000 cum @ Rs 105.71 / cum							<b>Rs 10465.29</b>	
4	60.1.2 RING BUND Type II Putting up ring bund with earth fille gunny bags of top width 1.0m bottom width 2.0m height 2.0 m side and filling in between with earth to form ring bund and maintaining the same leak proof till the completion of the work and clearing the site by dismantling the bund after completion of the work.etc.complete.							
	POND FACE	1	100.000				100.000	
Total Quantity							100.000 metre	

	Total Deducted Quantity						0.000 metre
	Net Total Quantity						100.000 metre
	Say 100.000 metre @ Rs 1219.40 / metre						<b>Rs 121940.00</b>
5	60.2.3 Bailing out water using pump above 5 HP and Up to 10 HP-Bailing out water with engine and pump set above 5HP and up to 10HP, including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete						
	2Nos2Days12Hour	2	60.000				120.000
	Total Quantity						120.000 hour
	Total Deducted Quantity						0.000 hour
	Net Total Quantity						120.000 hour
	Say 120.000 hour @ Rs 430.13 / hour						<b>Rs 51615.60</b>
6	5.33.1 Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work upto plinth level						
	Bottom Slab	1	11.400	6.400	0.400		29.185
	long sides	2	10.800	4.000	0.400		34.560
	Short Side	2	5.000	4.000	0.400		16.000
	Total Quantity						79.745 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						79.745 cum
	Say 79.745 cum @ Rs 9355.22 / cum						<b>Rs 746032.02</b>
7	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)						
	Pcc for bottom slab	1	11.600	6.600	0.100		7.656
	Total Quantity						7.656 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						7.656 cum
	Say 7.656 cum @ Rs 6772.67 / cum						<b>Rs 51851.56</b>
8	5.22.6						

	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more							
	Bottom Slab	1	11.400	6.400	0.400	100.0	2918.401	
	long sides	2	10.800	0.400	4.000	100.0	3456.000	
	Short Side	2	5.000	0.400	4.000	100.0	1600.000	
	Total Quantity						7974.401 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						7974.401 kilogram	
	Say 7974.401 kilogram @ Rs 97.69 / kilogram						<b>Rs 779019.23</b>	
9	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.							
	Bottom slab	2	11.400	0.400			9.121	
		2	6.400	0.400			5.121	
	Wall Inner	2	10.000	4.000			80.000	
	Wall Inner	2	5.000	4.000			40.000	
	Wall outer	2	10.800	4.000			86.400	
		2	5.800	4.000			46.400	
	Total Quantity						267.042 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						267.042 sqm	
	Say 267.042 sqm @ Rs 712.76 / sqm						<b>Rs 190336.86</b>	
10	5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 ( cement : 3 fine sand).							
	Bottom slab	2	10.000	5.000			100.000	
	Wall Inner	2	10.000	4.000			80.000	
	Wall Inner	2	5.000	4.000			40.000	
	Top Side	1	9.6+4.6	0.400			5.680	
	top side outer	1	33.200		1.000		33.200	
	Total Quantity						258.880 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						258.880 sqm	
	Say 258.880 sqm @ Rs 265.93 / sqm						<b>Rs 68843.96</b>	

11	22.23.1 Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer in-charge. The product performance shall carry guarantee for 10 years against any leakage. For vertical surface two coats @0.70 kg per sqm							
	Bottom slab	2	10.000	5.000			100.000	
	Wall Inner	2	10.000	4.000			80.000	
	Wall Inner	2	5.000	4.000			40.000	
	Top Side	1	9.6+4.6	0.400			5.680	
	top side outer	1	33.200		1.000		33.200	
	Total Quantity						258.880 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						258.880 sqm	
	Say 258.880 sqm @ Rs 566.76 / sqm						<b>Rs 146722.83</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>3 ELECTRIFICATION</b>								
1	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group C							
	1.10.3	3					3.000	
	Total Quantity						3.000 point	
	Total Deducted Quantity						0.000 point	
	Net Total Quantity						3.000 point	
	Say 3.000 point @ Rs 1169.63 / point						<b>Rs 3508.89</b>	
2	1.55.3 Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C							
	1.55.3	3					3.000	

							Total Quantity	3.000 point
							Total Deducted Quantity	0.000 point
							Net Total Quantity	3.000 point
							Say 3.000 point @ Rs 656.23 / point	<b>Rs 1968.69</b>
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.						
	1.12	1	20.000				20.000	
							Total Quantity	20.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	20.000 metre
							Say 20.000 metre @ Rs 237.16 / metre	<b>Rs 4743.20</b>
4	1.14.1	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2x1.5 sq.mm + 1x1.5 sq.mm earth wire						
	1.14.1	1	50.000				50.000	
							Total Quantity	50.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	50.000 metre
							Say 50.000 metre @ Rs 172.48 / metre	<b>Rs 8624.00</b>
5	1.14.2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire						
	1.14.2	1	20.000				20.000	
							Total Quantity	20.000 metre
							Total Deducted Quantity	0.000 metre
							Net Total Quantity	20.000 metre
							Say 20.000 metre @ Rs 196.74 / metre	<b>Rs 3934.80</b>
6	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs to be used in non residential buildings).						
	1.31	2					2.000	



	90.3.19.3	4					4.000	
	Total Quantity						4.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						4.000	each
	Say 4.000 each @ Rs 1222.10 / each						<b>Rs 4888.40</b>	
11	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole							
	2.10.1	4					4.000	
	Total Quantity						4.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						4.000	each
	Say 4.000 each @ Rs 235.81 / each						<b>Rs 943.24</b>	
12	2.10.5 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole and neutral							
	2.10.5	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 1290.91 / each						<b>Rs 1290.91</b>	
13	2.15.1 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 25 amps							
	2.15.1	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 2984.71 / each						<b>Rs 2984.71</b>	
14	90.11.1.10 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required 4 way (8+12) - three phase double cover (IP							

	42/43)							
	90.11.1.10	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 2846.50 / each						<b>Rs 2846.50</b>	
15	od163170/2021_2022 Supply & installation of dust and vermin proof, 3 Phase Syntex Meter Board GS-MB-6535(size 760x450x260x) and to fix KSEB meters, fuse units, CT etc as required including fixing it on wall, making good the damages colour washing etc. as required.							
	od59206/2021_2022	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 4794.42 / each						<b>Rs 4794.42</b>	
16	od163171/2021_2022 100A HRC fuse fuse base with fuse link 							
	od59185/2021_2022	3					3.000	
	Total Quantity						3.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						3.000	each
	Say 3.000 each @ Rs 543.00 / each						<b>Rs 1629.00</b>	
17	od163172/2021_2022 100 A, 415 V, 2 way neutral link mounted on DMC/ SMC base.							
	od59186/2021_2022	1					1.000	
	Total Quantity						1.000	each
	Total Deducted Quantity						0.000	each
	Net Total Quantity						1.000	each
	Say 1.000 each @ Rs 341.60 / each						<b>Rs 341.60</b>	
18	90.12.7.42 Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.4 core 25 sq mm with factory made clamp							
	90.12.7.42	1	10.000				10.000	
	Total Quantity						10.000	metre

	Total Deducted Quantity							0.000 metre
	Net Total Quantity							10.000 metre
	Say 10.000 metre @ Rs 328.51 / metre							<b>Rs 3285.10</b>
19	9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 25 sq. mm (28mm)							
	9.1.34	2					2.000	
	Total Quantity							2.000 set
	Total Deducted Quantity							0.000 set
	Net Total Quantity							2.000 set
	Say 2.000 set @ Rs 295.10 / set							<b>Rs 590.20</b>
20	90.16.1.3 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor ( 10 SWG)							
	90.16.1.3	1	50.000				50.000	
	Total Quantity							50.000 metre
	Total Deducted Quantity							0.000 metre
	Net Total Quantity							50.000 metre
	Say 50.000 metre @ Rs 62.87 / metre							<b>Rs 3143.50</b>
21	5.4 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
	5.4	2					2.000	
	Total Quantity							2.000 set
	Total Deducted Quantity							0.000 set
	Net Total Quantity							2.000 set
	Say 2.000 set @ Rs 7343.88 / set							<b>Rs 14687.76</b>
22	5.13 Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.							
	5.13	1	30.000				30.000	
	Total Quantity							30.000 metre
	Total Deducted Quantity							0.000 metre

	Net Total Quantity						30.000 metre	
	Say 30.000 metre @ Rs 304.53 / metre						<b>Rs 9135.90</b>	
23	5.14 Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.							
	5.14	1	0.300				0.300	
	Total Quantity						0.300 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						0.300 metre	
	Say 0.300 metre @ Rs 1191.19 / metre						<b>Rs 357.36</b>	
24	od163173/2021_2022 Solar street light:Supply installation, testing and commissioning 30w Solar LED Street Light, All in one type with 60w Pannel, 12.8V 18Ah Lithium Phero Phospate LifePo4 Battery, IP65 Protection individually for each components Motion sensor and Hybrid Charge controller. The pole shall 5 mtr GRP Conical Pole Made by CNC Filament machine, and be painted with anti corrosive paint with required thickness for protection. Each street light pole shall have proper independent earth at each location(Excluding civil work)							
	od60259/2021_2022	2					2.000	
	Total Quantity						2.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						2.000 each	
	Say 2.000 each @ Rs 58075.00 / each						<b>Rs 116150.00</b>	
25	od163174/2021_2022 KSEB charges for obtaining electric connection to the premises including CD, OYEC etc.(actuals will be paid)							
	od59443/2021_2022	1					1.000	
	Total Quantity						1.000 L.S	
	Total Deducted Quantity						0.000 L.S	
	Net Total Quantity						1.000 L.S	
	Say 1.000 L.S @ Rs 25000.00 / L.S						<b>Rs 25000.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>4 CIVIL WORK FOR LAMP POST</b>								
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
	2.6.1	2	0.750	0.750	1.200		1.350	

						Total Quantity	1.350 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1.350 cum	
						Say 1.350 cum @ Rs 212.70 / cum	<b>Rs 287.15</b>	
2	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)						
		2	0.750	0.750	0.100		0.113	
						Total Quantity	0.113 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.113 cum	
						Say 0.113 cum @ Rs 6772.67 / cum	<b>Rs 765.31</b>	
3	5.1.3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)						
		2	0.500	0.500	1.200		0.600	
						Total Quantity	0.600 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	0.600 cum	
						Say 0.600 cum @ Rs 8535.27 / cum	<b>Rs 5121.16</b>	
4	5.9.1	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete						
		2	2.000			1.2	4.800	
						Total Quantity	4.800 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	4.800 sqm	
						Say 4.800 sqm @ Rs 333.24 / sqm	<b>Rs 1599.55</b>	
5	5.22.6	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more						
		quantity vide item no.3						

	quantity vide item no.3	0.6				50.0	30.000	50Kg/ cubic metre	
Total Quantity							30.000 kilogram		
Total Deducted Quantity							0.000 kilogram		
Net Total Quantity							30.000 kilogram		
Say 30.000 kilogram @ Rs 97.69 / kilogram							<b>Rs 2930.70</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>5 GST@12%</b>									
Lump-Sum Total							<b>Rs 437819.88</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>6 centage@6%</b>									
Lump-Sum Total							<b>Rs 218909.94</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>7 GST ON CENTAGE@18%</b>									
Lump-Sum Total							<b>Rs 39403.79</b>		
Provision for GST payments (in %) @							<b>0.0%</b>		
Amount reserved for GST payments							<b>0.00</b>		
Total							<b>4344632.00</b>		
Lumpsum for round off							<b>0.00</b>		
<b>TOTAL Rs 4344632.00</b>									
<b>Rounded Total Rs 43,44,632</b>									
Rupees Forty Three Lakh Forty Four Thousand Six Hundred and Thirty Two Only									

(Cost Index Applied for this estimate is 34.75%)