

## Data Analysis

### ACADEMIC BLOCK PILING WORKS

1 Specification Code: od266001/2019\_2020

**od266001/2019\_2020 :Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). 700 mm dia piles.**

Details of cost for 15 m length of pile

MATERIAL:

Concrete  $3.14/4 \times 0.70^2 \times 15 = 5.77$  cum

Code	Description	Unit	Quantity	Rate	Amount
5.33.1	Rate as per item number 5.33.1 of SH: Reinforced Cement Concrete  	cum	5.77000	5550.15	32024.37
7183	Bentonite  	tonne	0.30000	3100.00	930.00
9999	Sundries   MACHINERY:	L.S	114.69000	1.73	198.41
0015	Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories	Day	1.40000	2000.00	2800.00
0025	Hire and running charges of light crane  	Day	0.06000	2500.00	150.00
0026	Hire and running charges of bentonite pump  	Day	0.38000	4200.00	1596.00
0017	Hire and running charges of tipper  	Day	0.30000	1800.00	540.00
0018	Hire and running charges of loader   LABOUR:   Work supervisor	Day	0.30000	6000.00	1800.00
0130	Mistry  	Day	0.12000	487.00	58.44
0114	Beldar  	Day	3.10000	368.00	1140.80
<b>TOTAL</b>					<b>41238.02</b>
	cost for 15.0 metre				41238.02
	cost for one metre				2749.20
	say				2749.20

	Add Water Charges @ 1.0%				<b>27.49</b>
	Add CPOH @ 15.0%				<b>416.50</b>
	Cost index <b>48.71 %</b>				1555.40
	Total with Cost index				4748.60
	Say				4748.60

2 Specification Code: od8684/2020\_2021

**od8684/2020\_2021 :Vertical load testing of piles in accordance with IS 2911( Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc.complete as per specification & the direction of engineer -in-Charge. Single pile above 100 tonne and up to 153 tonne capacity, Initial test 153x2.5 times = 382 MT, using concrete block for kentledge.**

Details of cost for 1 test

Code	Description	Unit	Quantity	Rate	Amount
7247	Vertical load testing (INITIAL) of piles in accordance with IS : 2911(Part -IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. compete as per specification & above 50MT and up to 100 MT   50 tonne	per test	1.00000	40300.00	40300.00
				<b>TOTAL</b>	40300.00
				cost for one per test	40300.00
	say				40300.00

	Add Water Charges @ 1.0%				<b>403.00</b>
	Add CPOH @ 15.0%				<b>6105.45</b>
	Cost index <b>48.71 %</b>				22800.39
	Total with Cost index				69608.85

	Say				69608.85
--	-----	--	--	--	----------

3 Specification Code: od8688/2020\_2021

od8688/2020\_2021 :Vertical load testing of piles in accordance with IS 2911( Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc.complete as per specification & the direction of engineer -in-Charge. Single pile above 100 tonne and up to 153 tonne capacity, static Routine test 153x1.5 times = 230 MT, using concrete block for kentledge.  
Details of cost for 1 test

Code	Description	Unit	Quantity	Rate	Amount
7250	Cyclic vertical load testing of piles in accordance with IS : 2911(Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile  	per test	1.00000	23000.00	23000.00
TOTAL					23000.00
Other Engineering Organisations cost for one per test					23000.00
	say				23000.00

	Add Water Charges @ 1.0%				<b>230.00</b>
	Add CPOH @ 15.0%				<b>3484.50</b>
	Cost index <b>48.71 %</b>				13012.63
	Total with Cost index				39727.13
	Say				39727.13

ACADEMIC BLOCK CIVIL WORKS

1 Specification Code: od8689/2020\_2021

**od8689/2020\_2021 :Providing 10cm to 20cm thick soling using boulders, aggregate, waste crusher sand, pile chipping material, to stabilize excavated soil and prepare the excavated surface for laying PCC complete with all materials, labour, machinery and tools, as specified and directed by the Engineer In charge.**  
Details of cost for 1.00 cum. soling material

Code	Description	Unit	Quantity	Rate	Amount
7753	Boulder 50 mm to 200 mm	cum	1.00000	700.00	700.00
0114	Beldar  	Day	0.44000	368.00	161.92
0115	Coolie  	Day	0.44000	368.00	161.92
0101	Bhisti  	Day	0.44000	407.00	179.08
MR94	Quarry Waste	cum	0.09000	935.00	84.15
9999	Sundries	L.S	21.64000	1.73	37.44
2215	Soling stone & masonry stone	cum	1.37000	122.08	167.25
<b>TOTAL</b>					<b>1491.76</b>
cost for one cum					1491.76
	say				1491.76

	Add Water Charges @ 1.0%				<b>14.91</b>
	Add CPOH @ 15.0%				<b>226.00</b>
	Cost index <b>48.71 %</b>				796.37
	Total with Cost index				2529.06
	Say				2529.06

**2** Specification Code: od304920/2019\_2020

**od304920/2019\_2020 :Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.**

Details of cost for 1 cum.

MATERIAL:

Code	Description	Unit	Quantity	Rate	Amount
8655	Autoclaved aerated cement (AAC) blocks   Cement mortar 1:4	cum	1.00000	3200.00	3200.00
3.9	Rate as per item number 3.9 of SH: Mortars   Carriage of AAC blocks as	cum	0.15000	3970.50	595.58
2208	Lime   Carriage of	cum	1.00000	103.77	103.77
9999	Sundries   LABOUR:	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class  	Day	0.36000	487.00	175.32
0124	Mason (brick layer) 2nd class  	Day	0.36000	448.00	161.28
0115	Coolie  	Day	1.37000	368.00	504.16
0101	Bhisti   Reinforcement bars	Day	0.20000	407.00	81.40
5.22.1	Rate as per item number 5.22.1 of SH: Reinforced Cement Concrete  	kg	13.20000	47.61	628.46 (A)
0115	Coolie   Extra labour element required for lifting of materials (above floor 2 level upto floor V level) ( 0.75x1.5 = 1.13)	Day	1.13000	368.00	415.84
<b>TOTAL</b>					<b>5870.53</b>
cost for one cum					<b>5870.53</b>
say					<b>5870.53</b>

	Add Water Charges @ 1.0%				<b>58.70</b>
	Add CPOH @ 15.0%				<b>889.38</b>
	Cost index <b>48.71 %</b>				3321.35
	Total with Cost index				10139.97
	Say				10139.97

**3** Specification Code: od304921/2019\_2020

**od304921/2019\_2020 :Providing and laying autoclaved aerated cement blocks masonry with 200 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level**

with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).

Details of cost for 1 cum.

MATERIAL

Code	Description	Unit	Quantity	Rate	Amount
8655	Autoclaved aerated cement (AAC) blocks  	cum	1.00000	3200.00	3200.00
0357	Polymer modified adhesive mortar  	kilogram	30.00000	14.50	435.00
9999	Sundries    LABOUR	L.S	2.73000	1.73	4.72
0123	Mason (brick layer) 1st class  	Day	0.36000	487.00	175.32
0124	Mason (brick layer )2nd class  	Day	0.36000	448.00	161.28
0115	Coolie   Extra labour element required for lifting of materials (above floor two level upto floor five level) (0.75x1.50 = 1.13)	Day	1.37000	368.00	504.16
0115	Coolie  	Day	1.13000	368.00	415.84
TOTAL					4896.32
cost for one cum					4896.32
say					4896.32

	Add Water Charges @ 1.0%				<b>48.96</b>
	Add CPOH @ 15.0%				<b>741.79</b>
	Cost index <b>48.71 %</b>				2770.17
	Total with Cost index				8457.25
	Say				8457.25

4 Specification Code: od250129/2019\_2020

od250129/2019\_2020 :Mat polished finish on concrete surface by flooring the process "DENSIFIED FLOOR" Vid. as Grinding the concrete floor using Coarse, Medium diamond grinding tools for removing the latency and minor level difference and opening up the pores in concrete, Densification of the floor using hybrid densifier, Densifier reacts with the UN-hydrated lime present in concrete and makes the concrete surface dense and hard.It offers many benefitssuch as reduced dusting, higher gloss readings, increased abrasion resistance, and a longer lifespan of the concrete floor. For this to achieve, the concrete floor is allowed to be

saturated with densifier, sealing with external grade sealer is applied on the floor after polishing to protect the floor from the effects of weather and to make the floor water repellent and stain resistant, burnishing the floor using a floor burnisher to bring about more shine and remove excess sealer from the floor etc in compliance to ASTM C-779 - Standard test method for abrasion resistance on horizontal floor surfaces. This item shall be executed only by the agency which has all required manufacturing machinery and necessary expertise.

Rate per Sq.m

Code	Description	Unit	Quantity	Rate	Amount
MR	Finish with top concrete surface of flooring by the process "DENSIFIED FLOOR" MAT FINISH quoted by contractor	sqm	1.00000	516.48	516.48
<b>TOTAL</b>					<b>516.48</b>
cost for one sqm					516.48
	say				516.48

	Add Water Charges @ 1.0%				<b>5.16</b>
	Add CPOH @ 15.0%				<b>78.24</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				599.89
	Say				599.89

5 Specification Code: od250158/2019\_2020

**od250158/2019\_2020 :Supply and install externally 1st quality 600x300x8mm brick pattern design colour ceramic tile wall cladding, tile shall be laid and fixed to pre-plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.**

Details of cost for 1 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	brick pattern Ceramic tile cladding	sqm	1.02500	501.53	514.07
8731	High polymer modified quickset tile adhesive	kg	10.00000	9.00	90.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	150.00	7.71
0123	Mason (brick layer) 1st class	Day	0.25000	487.00	121.75

0115	Coolie	Day	0.25000	368.00	92.00
9988	Carriage and sundries	L.S	26.91000	1.73	46.55

TOTAL					872.08
cost for one sqm					872.08
	say				872.08

	Add Water Charges @ 1.0%				<b>8.72</b>
	Add CPOH @ 15.0%				<b>132.12</b>
	Cost index <b>48.71 %</b>				202.55
	Total with Cost index				1215.47
	Say				1215.47

6 Specification Code: od250159/2019\_2020

**od250159/2019\_2020 :Supply and install externally 1st quality 600x300x8mm ceramic tile walls cladding of cement ash or similar different colours, tile shall be laid and fixed to pre plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.**

Details of cost for 1 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of ceramic tile cladding	sqm	1.02500	492.41	504.72
8731	High polymer modified quickset tile adhesive	kg	10.00000	9.00	90.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	150.00	7.71
0123	Mason (brick layer) 1st class	Day	0.25000	487.00	121.75
0115	Coolie	Day	0.25000	368.00	92.00
9988	Carriage and sundries	L.S	26.91000	1.73	46.55
TOTAL					862.73
cost for one sqm					862.73
	say				862.73



	Add Water Charges @ 1.0%				<b>8.62</b>
	Add CPOH @ 15.0%				<b>130.70</b>
	Cost index <b>48.71 %</b>				202.55
	Total with Cost index				1204.61
	Say				1204.61

7 Specification Code: od250150/2019\_2020

**od250150/2019\_2020 :Supply and fixing ready made galvanized wooden texture Powder coating/Heat transfer/Fluorocarbon laminate painted steel doors with steel jamb,SS hinges & door sill ,sheet thickness of 1to 1.4mm, Cylindrical lock, high security locking systems (Multi lock models having 11 locking points, and can be operated with a single key), honeycomb paper Infilling material, five years warranty on all the hardware and locking system as per satisfaction of site Engineer in charge.The above rate included all fixing and fittings like security locks, hinges, hardware items etc.( Cuirass/I-leaf/GM or approved equivalent.)**

Supply rate from quote = 1.2mx2.4m size door = 24900

Rate = 8645.83 per Sq.m.`

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of steel door with all hardware and fittings as per quote	sqm	1.00000	8645.83	8645.83
MR	Transportation	sqm	1.00000	200.00	200.00
0116	Fitter(grade1)	Day	0.35000	487.00	170.45
0114	Beldar	Day	0.35000	368.00	128.80
9999	Sundries	L.S	57.81000	1.73	100.01
<b>TOTAL</b>					<b>9245.09</b>
cost for one sqm of door area					9245.09
	say				9245.09

	Add Water Charges @ 1.0%				<b>92.45</b>
	Add CPOH @ 15.0%				<b>1400.63</b>
	Cost index <b>48.71 %</b>				225.88

	Total with Cost index				10964.06
	Say				10964.06

8 Specification Code: od250151/2019\_2020

od250151/2019\_2020 :Supply and fix fully finished Pre Hung Door:-Both side Veneered (Sapeli/ Beech /RC Walnut/RC Teak etc) vertical grains Flush door with matching Veneer Wrapped Engineered wood Jamb (Frame) with front side Architraves and other side Tackers, all with specialised Lacquer Polish. Door of 35 mm thick with 4 side PVC Lipping / Lock Hole Boring (using mortise lock) / Hinge Rebate cutting (4 Nos.) /Extruded Sauerland core / Honey comb core filling. as per drawing and agreed schedule of rates inclusive of all applicable taxes to the satisfaction of site Engineer in charge.The above rate included all fixing and fitting lock, hinges,hardware items etc. ( Jacsons or approved equivalent)  
for 1 Sq.m

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply rate by quotation	sqm	1.00000	7143.00	7143.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	467.00	252.18
0114	Beldar	Day	0.54000	368.00	198.72
<b>TOTAL</b>					<b>7793.90</b>
cost for one sqm					7793.90
	say				7793.90

	Add Water Charges @ 1.0%				<b>77.93</b>
	Add CPOH @ 15.0%				<b>1180.77</b>
	Cost index <b>48.71 %</b>				255.10
	Total with Cost index				9307.72
	Say				9307.72

9 Specification Code: od250152/2019\_2020

od250152/2019\_2020 :Supply and fix fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC wrapped WPC Jamb with front side Architrave other side tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)

Code	Description	Unit	Quantity	Rate	Amount
MR	HP Laminate vertical grain pattern Flush pre hung door	sqm	1.00000	6675.00	6675.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	467.00	252.18
0114	Beldar	Day	0.54000	368.00	198.72
TOTAL					7325.90
cost for one sqm of door area					7325.90
	say				7325.90

	Add Water Charges @ 1.0%				<b>73.25</b>
	Add CPOH @ 15.0%				<b>1109.87</b>
	Cost index <b>48.71 %</b>				255.10
	Total with Cost index				8764.14
	Say				8764.14

10 Specification Code: od16516/2019\_2020

od16516/2019\_2020 :Supply and install 100mmx100mmx14g thick 6.00 m long Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC parapet and base up stand, will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution). Considering 6.00m length

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply 100mmx100mmx14g thick 6.00 m long Galvanized square hollow section member.	kg	37.20000	55.67	2070.92

0102	Blacksmith 1st class	Day	0.12500	487.00	60.88
0114	Beldar	Day	0.12500	368.00	46.00
1215	Welding by electric plant	cm	120.00000	2.00	240.00
0123	Mason (brick layer) 1st class	Day	0.12500	487.00	60.88
0115	Coolie	Day	0.12500	368.00	46.00
MR	Cement mortar 1:3 (1 cement : 3 coarse sand).DSR item 3.8 (entered as MR since Price software not supported, rate =4723.50x1.4871( index value) =7024.32)	cum	0.03000	7024.32	210.73
1213	Water proofing materials	kilogram	0.10000	35.00	3.50
13.52.1	Rate as per item number 13.52.1 of SH: Finishing	sqm	2.40000	105.47	253.13
9999	Sundries	L.S	59.00000	1.73	102.07

TOTAL					3094.11
	cost for 6.0 metre				3094.11
	cost for one metre				515.68
	say				515.68

	Add Water Charges @ 1.0%				<b>5.15</b>
	Add CPOH @ 15.0%				<b>78.12</b>
	Cost index <b>48.71 %</b>				76.60
	Total with Cost index				675.57
	Say				675.57

11 Specification Code: od267439/2019\_2020

**od267439/2019\_2020 :Supply and install 50mmx50mmx16 g thick Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC slab will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (painting measured separately)(Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution).**  
Considering 3.60m length

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply 50mmx50mmx16 g thick 3.60 m long Galvanized square hollow section member.	kg	7.74000	55.67	430.89
0102	Blacksmith 1st class	Day	0.03700	487.00	18.02
0114	Beldar	Day	0.03700	368.00	13.62
1215	Welding by electric plant	cm	40.00000	2.00	80.00
0116	Fitter(grade1)	Day	0.03700	487.00	18.02
0115	Coolie	Day	0.03700	368.00	13.62
1957	Bolts and nuts 16 mm dia 65 mm long	each	8.00000	12.00	96.00
9988	Carriage and sundries	L.S	100.00000	1.73	173.00
<b>TOTAL</b>					<b>843.17</b>
	cost for 3.6 metre				843.17
	cost for one metre				234.21
	say				234.21

	Other Engineering Organisations Add Water Charges @ 1.0%				<b>2.34</b>
	Add CPOH @ 15.0%				<b>35.48</b>
	Cost index <b>48.71 %</b>				64.79
	Total with Cost index				336.83
	Say				336.83

12 Specification Code: od250169/2019\_2020

od250169/2019\_2020 :Supply Cor-Ten A grade 3mm thick warm rolled perforated cassettes (ASTM A606) fixed to plastered wall spacing in the hidden plastic suspension mounts with stainless steel class

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of 3mm thick cor-Ton steel cassettes including wastage	sqm	3.28000	1635.52	5364.51

MR	Perforation charges	L.S	1.00000	400.00	400.00
MR	Transportation	L.S	1.00000	500.00	500.00
9999	Sundries	L.S	217.04000	1.73	375.48
0116	Fitter(grade1)	Day	0.20000	487.00	97.40
0115	Coolie	Day	0.20000	368.00	73.60

TOTAL					6810.99
	cost for 3.125 sqm				6810.99
	cost for one sqm				2179.51
	say				2179.51

	Add Water Charges @ 1.0%				<b>21.79</b>
	Add CPOH @ 15.0%				<b>330.19</b>
	Cost index <b>48.71 %</b>				98.93
	Total with Cost index				2630.44
	Say				2630.44

13 Specification Code: od250186/2019\_2020

**od250186/2019\_2020 :Supply & Fixing stainless steel square cockroach proof traps with Gratings MAT finish. Unloading materials supplied at site and storing it in safe place provided in the site. (Make:CHILLY/ ACO/SGS )**

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of trap with grating	each	1.00000	639.83	639.83
0123	Mason (brick layer) 1st class	Day	0.06300	487.00	30.68
9999	Sundries	L.S	10.00000	1.73	17.30
TOTAL					687.81
cost for one each					687.81

	say				687.81
--	-----	--	--	--	--------

	Add Water Charges @ 1.0%				<b>6.87</b>
	Add CPOH @ 15.0%				<b>104.20</b>
	Cost index <b>48.71 %</b>				27.14
	Total with Cost index				826.04
	Say				826.04

14 Specification Code: od250191/2019\_2020

**od250191/2019\_2020 :Providing and fixing PVC pipes including fixing the pipe with clamps/ clip at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 63 mm dia 10 Kg/cm2 - External work - Exposed on wall**

Details of cost for 10 metre, (add 35% for wastage, fittings and clamps etc)

MATERIALS:Supply of 63mm dia 10kg PVC pipe from KWA item (KW234 )

Code	Description	Unit	Quantity	Rate	Amount
MR	PVC pipe 63 mm outer dia . 10kgf/cm2 (35% added for wastage, fittings and clamps etc)(Using market rate of Kerala water authority item no :KW234)	metre	13.50000	98.94	1335.69
9999	Sundries   Carriage of materials	L.S	232.70000	1.73	402.57
9999	Sundries   Adhesive, and sundries etc.	L.S	10.27000	1.73	17.77
0116	Fitter(grade1)  	Day	0.32000	487.00	155.84
0114	Beldar  	Day	0.62000	368.00	228.16
0100	Bandhani  	Day	0.13000	407.00	52.91
9999	Sundries   Scaffolding etc.	L.S	30.98000	1.73	53.60
<b>TOTAL</b>					<b>2246.54</b>
	cost for 10.0 metre				2246.54
	cost for one metre				224.65
	say				224.65

	Add Water Charges @ 1.0%				<b>2.24</b>
	Add CPOH @ 15.0%				<b>34.03</b>
	Cost index <b>48.71 %</b>				51.53
	Total with Cost index				312.46
	Say				312.46

15 Specification Code: od250192/2019\_2020

**od250192/2019\_2020 :Providing and fixing PVC pipes including fixing the pipe with clamps/clips at 1.00 m spacing. This included jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 75 mm dia 10Kgf/cm2 - External work- Exposed on wall.**

Details of cost for 10.00 m

MATERIALS:(35% added for wastage, fittings and clamps etc)

MATERIALS:Supply of 75mm dia 10kg PVC pipe from KWA item (KW235 )

Code	Description	Unit	Quantity	Rate	Amount
MR	PVC pipe 75 mm outer dia 10kgf/cm2 (35% added for wastage, fittings and clamps etc)(Using market rate of Kerala water authority item no :KW235)	metre	13.50000	140.25	1893.38
9999	Sundries   Carriage of materials	L.S	256.80000	1.73	444.26
9999	Sundries   Adhesive, and sundries etc	L.S	13.51000	1.73	23.37
0116	Fitter(grade1)  	Day	0.32000	487.00	155.84
0114	Beldar  	Day	0.62000	368.00	228.16
0100	Bandhani  	Day	0.13000	407.00	52.91
9999	Sundries   Scaffolding etc	L.S	30.98000	1.73	53.60
<b>TOTAL</b>					<b>2851.52</b>
	cost for 10.0 metre				2851.52
	cost for one metre				285.15
	say				285.15



	Add Water Charges @ 1.0%				<b>2.85</b>
	Add CPOH @ 15.0%				<b>43.20</b>
	Cost index <b>48.71 %</b>				54.20
	Total with Cost index				385.41
	Say				385.41

## FRONT GATE WITH SECURITY CABIN CIVIL WORKS

1 Specification Code: od250158/2019\_2020

**od250158/2019\_2020 :Supply and install externally 1st quality 600x300x8mm brick pattern design colour ceramic tile wall cladding, tile shall be laid and fixed to pre- plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.**

Details of cost for 1 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	brick pattern Ceramic tile cladding	sqm	1.02500	501.53	514.07
8731	High polymer modified quickset tile adhesive	kg	10.00000	9.00	90.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	150.00	7.71
0123	Mason (brick layer) 1st class	Day	0.25000	487.00	121.75
0115	Coolie	Day	0.25000	368.00	92.00
9988	Carriage and sundries	L.S	26.91000	1.73	46.55
<b>TOTAL</b>					<b>872.08</b>
cost for one sqm					872.08
	say				872.08

	Add Water Charges @ 1.0%				<b>8.72</b>
	Add CPOH @ 15.0%				<b>132.12</b>
	Cost index <b>48.71 %</b>				202.55
	Total with Cost index				1215.47
	Say				1215.47

2 Specification Code: od250152/2019\_2020

**od250152/2019\_2020 :Supply and fix fully finished Pre Hung Door:- Both side HP Laminate vertical grain pattern Flush door with matching PVC wrapped WPC Jamb with front side Architrave other side tackers. Door of 35mm thick with 4 side edges painted / Lock Hole Boring (Using mortise lock)/ Hinge Rebate Cutting (4 Nos) ,Jamb width 100 mm. Latch with Lever handles without Keys SS finish - 1 No, Hinges 4" x 3" x 3mm SS finish - 4 Nos .Tower Bolt 6" SS Finish - 1 No.(Jacsons or Approved equivalent)**

Code	Description	Unit	Quantity	Rate	Amount
MR	HP Laminate vertical grain pattern Flush pre hung door	sqm	1.00000	6675.00	6675.00
MR	Cartage and sundries	sqm	1.00000	200.00	200.00
0156	Carpenter (average)	Day	0.54000	467.00	252.18
0114	Beldar	Day	0.54000	368.00	198.72
<b>TOTAL</b>					<b>7325.90</b>
cost for one sqm of door area					7325.90
	say				7325.90

Other Engineering Organisations

	Add Water Charges @ 1.0%				<b>73.25</b>
	Add CPOH @ 15.0%				<b>1109.87</b>
	Cost index <b>48.71 %</b>				255.10
	Total with Cost index				8764.14
	Say				8764.14

3 Specification Code: od308917/2019\_2020

**od308917/2019\_2020 :Supply and install 100mmx100mmx14g thick 6.00 m long Galvanized square hollow section member (AS 1163-2009 Grade min C350L0 AS/NZS 4792 Galvanised coatings on ferrous hollow sections) fixed vertically and anchored to RC parapet and base up stand, will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer in-charge for approval before execution). Considering 6.00m length**

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply 100mmx100mmx14g thick 6.00 m long Galvanized square hollow section member	kg	37.20000	55.67	2070.92
2205	Steel	tonne	0.03720	92.24	3.43
0102	Blacksmith 1st class	Day	0.12500	487.00	60.88
0114	Beldar	Day	0.12500	368.00	46.00
1215	Welding by electric plant	cm	120.00000	2.00	240.00
0123	Mason (brick layer) 1st class	Day	0.12500	487.00	60.88
0115	Coolie	Day	0.12500	368.00	46.00
MR	Cement mortar 1:3 (1 cement : 3 coarse sand).DSR item 3.8 (entered as MR since Price software not supported, rate =4723.50x1.4871( index value) =7024.32)	cum	0.03000	7024.32	210.73
1213	Water proofing materials	kilogram	0.10000	35.00	3.50
13.52.1	Rate as per item number 13.52.1 of SH: Finishing	sqm	2.40000	105.47	253.13
<b>TOTAL</b>					<b>2995.47</b>
	cost for 6.0 metre				2995.47
	cost for one metre				499.24
	say				499.24

	Add Water Charges @ 1.0%				<b>4.99</b>
	Add CPOH @ 15.0%				<b>75.63</b>
	Cost index <b>48.71 %</b>				67.30
	Total with Cost index				647.17
	Say				647.17

COMPOUND WALL

1 Specification Code: od250158/2019\_2020

od250158/2019\_2020 :Supply and install externally 1st quality 600x300x8mm brick pattern design colour

ceramic tile wall cladding, tile shall be laid and fixed to pre- plastered walls in patterns, style and forms of grouting and jointing as directed by engineer using approved tile adhesive materials and pointed with approved tile joint filler matching the colour of tiles.

Details of cost for 1 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	brick pattern Ceramic tile cladding	sqm	1.02500	501.53	514.07
8731	High polymer modified quickset tile adhesive	kg	10.00000	9.00	90.00
1246	Silicon based Joint Sealeant for Tiles	kg	0.05140	150.00	7.71
0123	Mason (brick layer) 1st class	Day	0.25000	487.00	121.75
0115	Coolie	Day	0.25000	368.00	92.00
9988	Carriage and sundries	L.S	26.91000	1.73	46.55
<b>TOTAL</b>					<b>872.08</b>
cost for one sqm					<b>872.08</b>
	say				<b>872.08</b>

	Add Water Charges @ 1.0%				<b>8.72</b>
	Add CPOH @ 15.0%				<b>132.12</b>
	Cost index <b>48.71 %</b>				202.55
	Total with Cost index				1215.47
	Say				1215.47

**ROADS AND ANCILLARY WORKS**

1 Specification Code: od16380/2019\_2020

od16380/2019\_2020 :2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete ( tack coat to be paid for separately): With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt (DSR ITEM NO.16.33.1)

Details of cost for 100 sqm

Paving asphalt 80/100

(i) Hot bitumen @ 52kg.per cum. of stone chippings @2.25cum. of 13.2mm nominal size chippings.  
(ii) Hot bitumen @56kg. per cum. of aggregate @ 1.12cum. of 11.2mm nominal size  
 $52 \times 2.25 + 56 \times 1.12 = 180\text{kg}$

Code	Description	Unit	Quantity	Rate	Amount
2916	Paving Asphalt VG-10 of approved quality	tonne	0.18000	29600.00	5328.00
2914	Solvent  	kilogram	12.60000	25.00	315.00
2211	Tar bitumen   Carriage of	tonne	0.18000	103.77	18.68
2342	Solvent/ Diesel   Carriage of	quintal	0.12600	10.38	1.31
2910	Stone chippings/screenings 12.5/13.2 mm nominal size   @ 2.25 cum. per 100 sqm	cum	2.25000	1200.00	2700.00
2911	Stone Chippings/ screenings 10/ 11.2 mm nominal size   @ 1.12 cum.per 100sqm	cum	1.12000	1200.00	1344.00
2202	Stone aggregate below 40 mm nominal size   Carriage of   $2.25 + 1.12 = 3.37$ cum   Steam coal for heating of bitumen @2 quintals per tonne of bitumen   $= 2 \times 0.18 = 0.36\text{q}$	cum	3.37000	103.77	349.70
0370	Coal (steam)  	quintal	0.36000	400.00	144.00
2200	Steam coal   Carriage of   LABOUR:   for cleaning the road surface, heating and spraying bitumen and aggregate:   (a) for cleaning:	tonne	0.03600	118.59	4.27
0128	Mate  	Day	0.08000	407.00	32.56
0114	Beldar  	Day	1.40000	368.00	515.20
0115	Coolie   (b) for heating bitumen	Day	1.40000	368.00	515.20
0114	Beldar   (c) for screening and spreading premixed aggregate:	Day	0.71000	368.00	261.28
0130	Mistry  	Day	0.19000	487.00	92.53
0114	Beldar   (d) consolidation charges:	Day	6.25000	368.00	2300.00
0113	Chowkidar  	Day	0.27000	368.00	99.36
0101	Bhisti  	Day	0.11000	407.00	44.77
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne  	Day	0.11000	2200.00	242.00
0001	Hire charges of Coaltar Boiler 900 to 1400 litres  	Day	0.15000	800.00	120.00
0023	Hot Bitumen Mixer 0.5cum i/c hand cart   (e) misc:   Brushes etc. for cleaning.	Day	0.04000	3500.00	140.00
0364	Wire brush   (with thick wire)	each	0.11000	20.00	2.20

0365	Soft brush  	each	0.32000	18.00	5.76
9999	Sundries   Brooms and gunny bags	L.S	6.76000	1.73	11.69
9999	Sundries  	L.S	9.49000	1.73	16.42

TOTAL					14603.93
	cost for 100.0 sqm				14603.93
	cost for one sqm				146.04
	say				146.04

	Add Water Charges @ 1.0%				<b>1.46</b>
	Add CPOH @ 15.0%				<b>22.12</b>
	Cost index <b>48.71 %</b>				82.62
	Total with Cost index				252.25
	Say				252.25

## Other Engineering Organisations

2 Specification Code: od16391/2019\_2020

**od16391/2019\_2020 :Providing and laying seal coat of premixed fine aggregate ( passing 2.36 mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.(DSR ITEM NO 16.40)**

Details of cost for 100 sqm

@ 128kg/cum. of sand  $128 \times 0.60 = 76.80 \text{kg.} = 0.0768 \text{ m.t}$

Code	Description	Unit	Quantity	Rate	Amount
2916	Paving Asphalt VG-10 of approved quality	tonne	0.07680	29600.00	2273.28
2211	Tar bitumen   Carriage of	tonne	0.07680	103.77	7.97
0982	Coarse sand (zone III)	cum	0.60000	1200.00	720.00
2203	Coarse sand	cum	0.60000	103.77	62.26
0370	Coal (steam)  	quintal	1.53600	400.00	614.40

2200	Steam coal   Carriage of  LABOUR: for cleaning the road surface, heating and spraying bitumen and aggregate: (a) for cleaning:	tonne	0.15360	118.59	18.22
0128	Mate  	Day	0.06000	407.00	24.42
0114	Beldar  	Day	0.49000	368.00	180.32
0115	Coolie   (b) for heating bitumen	Day	0.97000	368.00	356.96
0114	Beldar   (c) for screening and spreading premixed aggregate:	Day	0.30000	368.00	110.40
0130	Mistry  	Day	0.05000	487.00	24.35
0114	Beldar   (d)consolidation charges:	Day	1.11000	368.00	408.48
0113	Chowkidar  	Day	0.15000	368.00	55.20
0101	Bhisti  	Day	0.06000	407.00	24.42
0003	Hire charges of Diesel Road Roller- 8 to 10 tonne  	Day	0.06000	2200.00	132.00
0001	Hire charges of Coaltar Boiler 900 to 1400 litres  	Day	0.05000	800.00	40.00
0023	Hot Bitumen Mixer 0.5cum i/c hand cart   (e) misc: Brushes etc. for cleaning.	Day	0.01000	3500.00	35.00
0364	Wire brush   (with thick wire)	each	0.05000	20.00	1.00
0365	Soft brush  	each	0.12000	18.00	2.16
9999	Sundries   Brooms and gunny bags	L.S	18.20000	1.73	31.49

<b>PRICE</b>				<b>TOTAL</b>	<b>5122.33</b>
	cost for 100.0 sqm				<b>5122.33</b>
	cost for one sqm				<b>51.22</b>
	say				<b>51.22</b>

	Add Water Charges @ 1.0%				<b>0.51</b>
	Add CPOH @ 15.0%				<b>7.75</b>
	Cost index <b>48.71 %</b>				<b>28.97</b>
	Total with Cost index				<b>88.47</b>
	Say				<b>88.47</b>

3 Specification Code: od16396/2019\_2020

od16396/2019\_2020 :Providing and laying average 100 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate mixed with sand Zone V, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Details of cost for 10 sqm.

MATERIAL:

Code	Description	Unit	Quantity	Rate	Amount
0295	Stone Aggregate(single size):20 mm nominal size  	cum	0.75000	1300.00	975.00
6501	Sand zone V (jamina)	cum	0.25000	600.00	150.00
2202	Stone aggregate below 40 mm nominal size	cum	0.75000	103.77	77.83
2335	Jamuna sand	cum	0.25000	103.77	25.94
0114	Beldar  	Day	0.47000	368.00	172.96
0115	Coolie  	Day	0.35000	368.00	128.80
0101	Bhisti	Day	0.24000	407.00	97.68
P&M-158	Plate vibrator	hour	1.92000	31.25	60.00
Other Engineering Organisations TOTAL					1688.21
	cost for 10.0 sqm				1688.21
	cost for one sqm				168.82
	say				168.82

	Add Water Charges @ 1.0%				<b>1.68</b>
	Add CPOH @ 15.0%				<b>25.57</b>
	Cost index <b>48.71 %</b>				95.51
	Total with Cost index				291.60
	Say				291.60

4 Specification Code: od16443/2019\_2020



**od16443/2019\_2020 : two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces**

Unit = sqm

Taking out put = 40 sqm

LabourPainting

Code	Description	Unit	Quantity	Rate	Amount
0128	Mate	Day	0.12000	407.00	48.84
0131	Painter	Day	2.00000	448.00	896.00
0114	Beldar	Day	1.00000	368.00	368.00
0833	Synthetic enamel paint in black or chocolate shade	Litre	6.00000	170.00	1020.00
<b>TOTAL</b>					<b>2332.84</b>
	cost for 40.0 sqm				2332.84
	cost for one sqm				58.32
	say				58.32

	Add Water Charges @ 1.0%				<b>0.58</b>
	Add CPOH @ 15.0%				<b>8.83</b>
	Cost index <b>48.71 %</b>				32.99
	Total with Cost index				100.73
	Say				100.73

**5** Specification Code: od16452/2019\_2020

**od16452/2019\_2020 :Providing and fixing PVC pipe pieces in weep holes by hacking,jointing and make good, 110 mm pipe 4 kgf/cm2**

Details of cost for 1.00metre

MATERIALS:

Code	Description	Unit	Quantity	Rate	Amount
------	-------------	------	----------	------	--------

MR55	PVC pipe 110 mm outer dia. 4kgf/cm2	metre	1.00000	170.00	170.00
0116	Fitter(grade1)  	Day	0.03300	487.00	16.07

TOTAL					186.07
cost for one metre					186.07
	say				186.07

	Add Water Charges @ 1.0%				<b>1.86</b>
	Add CPOH @ 15.0%				<b>28.18</b>
	Cost index <b>48.71 %</b>				9.09
	Total with Cost index				225.21
	Say				225.21

6 Specification Code: od250248/2019\_2020

**od250248/2019\_2020 :Construct foundation for lighting pole using M30 concrete of overall size 65x65x160 cm and 4 nos M20x75cm long anchor bolt set in concrete using 4mm thick anchor plate as per the drawing and specification.**

Workout for single lighting pole foundation

Code	Description	Unit	Quantity	Rate	Amount
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	3.09000	143.26	442.68
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	0.05000	3855.49	192.77
5.33.1	Rate as per item number 5.33.1 of SH: Reinforced Cement Concrete	cum	0.68000	5550.15	3774.10
5.34.1	Rate as per item number 5.34.1 of SH: Reinforced Cement Concrete	cum	0.68000	59.84	40.69
4.3.1	Rate as per item number 4.3.1 of SH: Concrete work	sqm	4.16000	166.98	694.64
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	21.90000	48.73	1067.19
10.2	Rate as per item number 10.2 of SH: Steel Work	kg	1.50000	58.24	87.36
1221	20 mm dia holding down bolts	quintal	0.00310	5500.00	17.05
MR51	PVC pipe 63 mm outer dia. 4 kgf/cm2	metre	0.46000	83.00	38.18

9988	Carriage and sundries	L.S	250.00000	1.73	432.50
------	-----------------------	-----	-----------	------	--------

TOTAL					6787.16
cost for one each					6787.16
	say				6787.16

	Add Water Charges @ 1.0%				<b>67.87</b>
	Add CPOH @ 15.0%				<b>1028.25</b>
	Cost index <b>48.71 %</b>				3818.34
	Total with Cost index				11701.63
	Say				11701.63

7 Specification Code: od16461/2019\_2020

od16461/2019\_2020 :Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of average inside dimensions 40cm wide x 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as per drawing and specification  
Rate per meter length

Code	Description	Unit	Quantity	Rate	Amount
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	0.64000	143.26	91.69
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	0.08000	3855.49	308.44
5.1.2	Rate as per item number 5.1.2 of SH: Reinforced Cement Concrete	cum	0.06000	5351.14	321.07
5.2.2	Rate as per item number 5.2.2 of SH: Reinforced Cement Concrete	cum	0.12000	6152.22	738.27
5.9.1	Rate as per item number 5.9.1 of SH: Reinforced Cement Concrete	sqm	0.20000	166.98	33.40
5.9.2	Rate as per item number 5.9.2 of SH: Reinforced Cement Concrete	sqm	2.40000	325.96	782.30
5.12	Rate as per item number 5.12 of SH: Reinforced Cement Concrete	cum	0.06000	6002.67	360.16

5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	18.00000	48.73	877.14
--------	--	----------	----------	-------	--------

TOTAL					3512.47
cost for one metre					3512.46
	say				3512.46

	Add Water Charges @ 1.0%				<b>35.12</b>
	Add CPOH @ 15.0%				<b>532.13</b>
	Cost index <b>48.71 %</b>				1987.23
	Total with Cost index				6066.96
	Say				6066.96

## EXTERNAL WATER SUPPLY

1 Specification Code: od16350/2019\_2020

od16350/2019\_2020 :Supply ,Installation testing and commissioning of Kirloskar make Transfer pump 3HP, 3 phase ,18m head 2500LPH capacity including all accessories.

QTY FOR ONE ITEM

Code	Description	Unit	Quantity	Rate	Amount
MR	SUPPLY OF PUMP AND ACCESSORIES	each	1.00000	12288.00	12288.00
0116	Fitter(grade1)	Day	0.75000	487.00	365.25
0160	Technician	Day	0.75000	775.00	581.25
9988	Carriage and sundries	L.S	100.00000	1.73	173.00
TOTAL					13407.50
cost for one each					13407.50
	say				13407.50

	Add Water Charges @ 1.0%				<b>134.07</b>
	Add CPOH @ 15.0%				<b>2031.23</b>

	Cost index <b>48.71 %</b>				633.37
	Total with Cost index				16206.19
	Say				16206.19

2 Specification Code: od16351/2019\_2020

od16351/2019\_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.

Details of cost for 1 cu.m

Code	Description	Unit	Quantity	Rate	Amount
4.1.10	Rate as per item number 4.1.10 of SH: Concrete work  	cum	1.00000	3623.81	3623.81
TOTAL					3623.81
Other Engineering Organisations cost for one cum					3623.81
	say				3623.81

	Add Water Charges @ 1.0%				<b>36.23</b>
	Add CPOH @ 15.0%				<b>549.00</b>
	Cost index <b>48.71 %</b>				2050.23
	Total with Cost index				6259.29
	Say				6259.29

3 Specification Code: od250255/2019\_2020

od250255/2019\_2020 :Supply, install and testing approved make forged brass ball valves full bore and thread conforming to IS 1703 with all necessary fittings & accessories ie, unions, connectors, adapters, PTFE tape etc. complete as directed and specified, 40mm full bore.

Rate for each item

Code	Description	Unit	Quantity	Rate	Amount
MR	supply of Zoloto 40mm full bore forged brass ball valve	each	1.00000	1602.00	1602.00
MR	50mm male threaded adaptor	each	2.00000	38.00	76.00
MR	50mm dia union	each	2.00000	72.00	144.00
9988	Carriage and sundries	L.S	14.06000	1.73	24.32
<b>TOTAL</b>					<b>1846.32</b>
cost for one each					<b>1846.32</b>
	say				<b>1846.32</b>

	Add Water Charges @ 1.0%				<b>18.46</b>
	Add CPOH @ 15.0%				<b>279.71</b>
	Cost index <b>48.71 %</b>				13.75
	Total with Cost index				2158.26
	Say				2158.26

4 Specification Code: od16374/2019\_2020

**od16374/2019\_2020 :Supply ,Installation testing and commissioning of Kirloskar make model KOS 527+ or approved equivalent 5HP, 3 phase ,18m head 13.5 LPS capacity submersible pump including all accessories. QTY FOR ONE ITEM**

Code	Description	Unit	Quantity	Rate	Amount
MR	SUPPLY OF PUMP AND ACCESSORIES	each	1.00000	20663.50	20663.50
0116	Fitter(grade1)	Day	1.00000	487.00	487.00
0160	Technician	Day	1.00000	775.00	775.00
9988	Carriage and sundries	L.S	234.80000	1.73	406.20
<b>TOTAL</b>					<b>22331.70</b>
cost for one each					<b>22331.70</b>
	say				<b>22331.70</b>

	Add Water Charges @ 1.0%				<b>223.31</b>
	Add CPOH @ 15.0%				<b>3383.25</b>
	Cost index <b>48.71 %</b>				943.81
	Total with Cost index				26882.08
	Say				26882.08

## EXTERNAL SEWERAGE SYSTEM

1 Specification Code: od16351/2019\_2020

od16351/2019\_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.

Details of cost for 1 cu.m

Code	Description	Unit	Quantity	Rate	Amount
4.1.10	Rate as per item number 4.1.10 of SH:Concrete work  	cum	1.00000	3623.81	3623.81
				<b>TOTAL</b>	3623.81
				cost for one cum	3623.81
	say				3623.81

	Add Water Charges @ 1.0%				<b>36.23</b>
	Add CPOH @ 15.0%				<b>549.00</b>
	Cost index <b>48.71 %</b>				2050.23
	Total with Cost index				6259.29
	Say				6259.29

## RAIN WATER DRAINAGE

1 Specification Code: od16351/2019\_2020

**od16351/2019\_2020 :Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.**

Details of cost for 1 cu.m

Code	Description	Unit	Quantity	Rate	Amount
4.1.10	Rate as per item number 4.1.10 of SH: Concrete work  	cum	1.00000	3623.81	3623.81
<b>TOTAL</b>					<b>3623.81</b>
cost for one cum					<b>3623.81</b>
	say				<b>3623.81</b>

	Add Water Charges @ 1.0%				<b>36.23</b>
	Add CPOH @ 15.0%				<b>549.00</b>
	Cost index <b>48.71 %</b>				2050.23
	Total with Cost index				6259.29
	Say				6259.29

**2** Specification Code: od16381/2019\_2020

**od16381/2019\_2020 :Supplying and installing ready made Pre cast RCC Water tank including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (5000 L Capacity )**

Details of cost for 1 no

Code	Description	Unit	Quantity	Rate	Amount
MR	Pre Cast RCC Water Tank - 5000 L Capacity	each	1.00000	35000.00	35000.00
9999	Sundries   Carriage to site	L.S	179.40000	1.73	310.36
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	23.70000	143.26	3395.26
9999	Sundries   Placing at specified level including back filling as necessary	L.S	22.42500	1.73	38.80
<b>TOTAL</b>					<b>38744.42</b>



					cost for one each	38744.42
	say					38744.42

	Add Water Charges @ 1.0%					<b>387.44</b>
	Add CPOH @ 15.0%					<b>5869.77</b>
	Cost index <b>48.71 %</b>					2118.46
	Total with Cost index					47120.11
	Say					47120.11

**3** Specification Code: od16385/2019\_2020

**od16385/2019\_2020 :Supply all material and construct RCC rain water filtration tank cum collection tank of overall size 7.6x2.40x2.45m using 1:1.5:3 concrete mix etc. all complete as per the drawing and specification.**

Code	Description	Unit	Quantity	Rate	Amount
2.8.1	Rate as per item number 2.8.1 of SH: Earth Work	cum	62.73000	143.26	8986.70
2.25	Rate as per item number 2.25 of SH: Earth Work	cum	16.01000	108.27	1733.40
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	2.03000	3855.49	7826.64
5.9.1	Rate as per item number 5.9.1 of SH: Reinforced Cement Concrete	sqm	8.00000	166.98	1335.84
5.9.2	Rate as per item number 5.9.2 of SH: Reinforced Cement Concrete	sqm	100.00000	325.96	32596.00
5.9.3	Rate as per item number 5.9.3 of SH: Reinforced Cement Concrete	sqm	15.04000	363.58	5468.24
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	1765.0000 0	48.73	86008.45
5.1.2	Rate as per item number 5.1.2 of SH: Reinforced Cement Concrete	cum	17.65000	5351.14	94447.62
22.4.1	Rate as per item number 22.4.1 of SH: Water Proofing	metre	23.60000	218.81	5163.92
13.7.1	Rate as per item number 13.7.1 of SH: Finishing	sqm	64.80000	195.26	12652.85

0295	Stone Aggregate(single size):20 mm nominal size	cum	2.03000	1300.00	2639.00
0293	Stone Aggregate(single size): 40 mm nominal size	cum	2.03000	1250.00	2537.50
7753	Boulder 50 mm to 200 mm	cum	2.03000	700.00	1421.00
0114	Beldar	Day	0.18300	368.00	67.34
0115	Coolie	Day	0.22330	368.00	82.17
2202	Stone aggregate below 40 mm nominal size	cum	2.03000	103.77	210.65
2206	Stone aggregate 40 mm nominal size and above	cum	4.06000	112.79	457.93
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	2.00000	450.00	900.00
MR56	PVC pipe 150 mm outer dia 6kgf/cm2	metre	2.25000	520.00	1170.00
9988	Carriage and sundries	L.S	90.20000	1.73	156.05
0116	Fitter(grade1)	Day	0.15700	487.00	76.46
0114	Beldar	Day	0.41200	368.00	151.62
1356	500 mm dia cover with frame (medium duty)	each	3.00000	4750.00	14250.00
0155	Mason (average)	Day	1.80000	467.00	840.60
0114	Beldar	Day	1.80000	368.00	662.40

				TOTAL	281842.38
				Other Engineering Organisations cost for one each	281842.39
	say				281842.39

	Add Water Charges @ 1.0%				<b>2818.42</b>
	Add CPOH @ 15.0%				<b>42699.12</b>
	Cost index <b>48.71 %</b>				158503.8 6
	Total with Cost index				485863.8 0
	Say				485863.8 0

SIGNAGE AND BOARDS	
1 Specification Code: od250262/2019_2020	

od250262/2019\_2020 :Providing and fixing of Advance Direction / Way finding / Reassurance Sign board of size 1000 mm x 1500 mm made out of Type-XI encapsulated lens type retro reflective sheeting wide. Base Sheeting shall be of White Color type IV class B retro reflective sheeting fixed over 2 mm thick Aluminium Composite Material sheet with area exceeding 0.9 sqm fixed over back support frame of M.S.Angle 35 x 35 x 5 mm all round mounted on two 50 mm dia MS Pipe with clear height of not less than 2.1 m from the ground level to the bottom of the board as per approved drawings.<br>The sign post should be painted with one coat of red oxide paint and two coats of 1 st quality synthetic enamel paint Black & white colour with bands of 30 cm height. The sign post shall be firmly fixed in to the ground by means of properly designed foundation with M15 grade concrete size 450mm x 450mmx 600 mm, including cost,conveyance of all materials, equipment,machinery and labour with all leads and lift,loading charges necessary for satisfactory completion of the work as directed by Engineer in-Charge.

Code	Description	Unit	Quantity	Rate	Amount
MR	AS per quote recieved	each	1.00000	10134.00	10134.00
TOTAL					10134.00
cost for one each					10134.00
	say				10134.00

	Add Water Charges @ 1.0%				<b>101.34</b>
	Add CPOH @ 15.0%				<b>1535.30</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				11770.64
	Say				11770.64

2 Specification Code: od250263/2019\_2020

od250263/2019\_2020 :Supply and fixing sticker type signage at site (on door or similar locations) in proper line & level. The signage letters shall be made with premium quality vinyl sheet of approved colour, pasted on "3M"make self-adhesive film of approved colour, including supply of all material labour etc. required for proper completion of work. Before making the signage text & font of letters in best fit size will be set in computer so as to give aesthetic look as per sample available with ITD

Code	Description	Unit	Quantity	Rate	Amount
MR	As per quote received	sqcm	1.00000	0.59	0.59
TOTAL					.59
cost for one sqcm					0.59
	say				0.59

	Add Water Charges @ 1.0%				<b>0.00</b>
	Add CPOH @ 15.0%				<b>0.08</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				0.69
	Say				0.69

3 Specification Code: od250264/2019\_2020

od250264/2019\_2020 :Supply and fixing bilingual signage in English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 3mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote 	sqcm	1.00000	0.60	0.60
TOTAL					.60
cost for one sqcm					0.60
	say				0.60

	Add Water Charges @ 1.0%				<b>0.00</b>
	Add CPOH @ 15.0%				<b>0.09</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				0.70
	Say				0.70

4 Specification Code: od250265/2019\_2020

od250265/2019\_2020 :Supply & fixing 5 mm thick aluminum compressed Panel (ACP) sheet in the required size for building name signage. The sheet will be cut into size as per the size of signage to be fixed in position (Stone façade, grit wash, gypsum board etc.) with screws & tape including s/o all material labour T&P etc. required for proper completion of work.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	1.05	1.05
TOTAL					1.05
cost for one sqcm					1.05
	say				1.05

	Add Water Charges @ 1.0%				<b>0.01</b>
	Add CPOH @ 15.0%				<b>0.15</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				1.22
	Say				1.22

5 Specification Code: od250266/2019\_2020

od250266/2019\_2020 :Supply & fixing stainless steel (SS) letters made with SS-304 grade 20 gauge sheet as per the approved size & shade including fixing on ACP sheet in required height line & level including s/o all T&P etc. required for proper completion of work. Before making the letters the font & size will be got approved from ITD.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	1.38	1.38
TOTAL					1.38
cost for one sqcm					1.38

	say				1.38
--	-----	--	--	--	------

	Add Water Charges @ 1.0%				<b>0.01</b>
	Add CPOH @ 15.0%				<b>0.20</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				1.60
	Say				1.60

6 Specification Code: od250267/2019\_2020

od250267/2019\_2020 :Supply and fixing symbol signage such as No. Smoking, No Spitting, Drinking Water etc. signage of standard sizes as per conventional design/ colour code on 3 mm thick aluminium composite panel. The signage will be either fixed on the wall with the help of screws & double tape or hanged from the false ceiling with the help of chain & screws etc. complete work.

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	sqcm	1.00000	0.59	0.59
				<b>TOTAL</b>	.59
				cost for one sqcm	0.59
	say				0.59

	Add Water Charges @ 1.0%				<b>0.00</b>
	Add CPOH @ 15.0%				<b>0.08</b>
	Cost index <b>48.71 %</b>				0.00
	Total with Cost index				0.69
	Say				0.69

7 Specification Code: od250268/2019\_2020

od250268/2019\_2020 :Printing of floor plans on approx. A2 size poster sheet with indelible ink framing the same in 3mm thick acrylic sheet and 1” studs complete. The floor plans will be fixed on the wall with the help of screws and double tape etc. to give neat & finished look

Code	Description	Unit	Quantity	Rate	Amount
MR	Rate as per quote	each	1.00000	1622.87	1622.87
TOTAL					1622.87
cost for one each					1622.87
	say				1622.87

	Add Water Charges @ 1.0%				<b>16.22</b>
	Add CPOH @ 15.0%				<b>245.86</b>
	Cost index <b>48.71 %</b>				-0.01
	Total with Cost index				1884.96
	Say				1884.96

Other Engineering Organisations

**PRICE**