

Data Analysis

MAIN BUILDING GROUND FLOOR ELECTRICAL WORKS

1 Specification Code: od134264/2019_2020

od134264/2019_2020 : Supply of 240 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR802	240 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	1050.85	1050.85
	Add Cartage@1.00				10.51
	total				1061.36
TOTAL					1061.36
Add CPOH @ 15%					159.20
cost for one metre					1221.0
Say					1221.0
Cost index 32.04 %					.00
Total with Cost index					1221.00
Say					1221.00

2 Specification Code: od134265/2019_2020

od134265/2019_2020 : Supply of 120 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
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MR799	120 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	550.85	550.85
	Add Cartage@1.00				5.51
	total				556.36

TOTAL	556.36
Add CPOH @ 15%	83.45
cost for one metre	640.0
Say	640.0
Cost index 32.04 %	.00
Total with Cost index	640.00
Say	640.00

Other Engineering Organisations

3 Specification Code: od134266/2019_2020

PRICE

od134266/2019_2020 : Supply of 70 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR797	70 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	355.93	355.93
	Add Cartage@1.00				3.56
	total				359.49

TOTAL	359.49
Add CPOH @ 15%	53.92
cost for one metre	413.0
Say	413.0

Cost index 32.04 %	.00
Total with Cost index	413.00
Say	413.00

4 Specification Code: od134267/2019_2020

od134267/2019_2020 : Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR809	25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	173.73	173.73
	Add Cartage@1.00				1.74
	total				175.47
TOTAL					175.47
Add CPOH @ 15%					26.32
cost for one metre					202.0
Say					202.0
Cost index 32.04 %					.00
Total with Cost index					202.00
Say					202.00

5 Specification Code: od134268/2019_2020

od134268/2019_2020 : Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR807	10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	101.69	101.69
	Add Cartage@1.00				1.02
	total				102.71
TOTAL					102.71
Add CPOH @ 15%					15.41
cost for one metre					118.0
Say					118.0
Cost index 32.04 %					.00
Total with Cost index					118.00
Say					118.00

6 Specification Code: od134401/2019_2020

od134401/2019_2020 : Providing and fixing 25 mm X 3 mm copper strip on surface or in recess for connections etc. as required.

Code	Description	Unit	Quantity	Rate	Amount
2906	Copper saddle	each	17.0000 0	26.25	446.25

	Add Cartage@1.00				4.46
	total				450.71
2851	Al. Alloy/ cadmium plated iron screws, 20 mm	each	34.0000 0	0.40	13.60
	Add Cartage@1.00				0.14
	total				13.74
2857	PVC fastener 40mm long	each	17.0000 0	0.28	4.76
	Add Cartage@1.00				0.05
	total				4.81
MR2041	Copper Strip all sizes	kg	6.67000	489.83	3267.17
	Add Cartage@1.00				32.67
	total				3299.84
Total Cost of Materials					3769.1
1001	Wireman	Day	0.50000	447.00	223.50
1010	Mason, Grade 2	Day	0.25000	407.00	101.75
1007	Khallasi	Day	0.75000	368.00	276.00

TOTAL	4370.35
Add CPOH @ 15%	655.55
cost for 10.0 metre	5025.90
cost for one metre	503.0
Say	503.0
Cost index 32.04 %	39.73
Total with Cost index	542.73
Say	542.73

7 Specification Code: od134402/2019_2020

Supplying and laying 25 mm X 3 mm copper strip at 0.50 metre below ground as od134402/201 strip earth
electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required.
(Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)

Code	Description	Unit	Quantity	Rate	Amount
MR2041	Copper Strip all sizes	kg	20.0100 0	489.83	9801.50
	Add Cartage@1.00				98.01
	total				9899.51
Total Cost of Materials					9899.51
1085	Solder jointing	each	5.00000	12.00	60.00
1001	Wireman	Day	0.12500	447.00	55.88
1007	Khallasi	Day	0.12500	368.00	46.00
1012	Beldar/coolie	Day	1.00000	368.00	368.00
TOTAL					10429.39
Add CPOH @ 15%					1564.41
cost for 30.0 metre					11993.80
cost for one metre					400.0
Say					400.0
Cost index 32.04 %					6.73
Total with Cost index					406.73
Say					406.73

8 Specification Code: od133961/2019_2020

od133961/201 SITC of 100 KVA DG set with standard control panel complete with all other 9_2020 : accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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MR2413	100 KVA DG set with standard control panel	each	1.00000	623000.00	623000.00
	Add Cartage@1.00				6230.00
	total				629230.00
Total Cost of Materials					629230.0
MR2435	Charges for Crane	Day	0.50000	3000.00	1500.00
MR701	Electrician	Day	1.00000	750.00	750.00
MR720	Khalasi	Day	1.00000	750.00	750.00

TOTAL	632230.0
Add CPOH @ 15%	94834.50
cost for one each	727065.0
Say	727065.0
Cost index 32.04 %	.00
Total with Cost index	727065.00
Other Engineering Organisations Say	727065.00

9 Specification Code: od163325/2019_2020

od163325/2019_2020 : SITC of Rust resistant and weather proof Bulk-head light fixture with 9W LED lamp, IP 65 Protection complete with all other accessories as required. (Make: crompton)

Code	Description	Unit	Quantity	Rate	Amount
MR	Bulkhead light fixtire with 9W LED lamp (Make: crompton)	each	1.00000	450.00	450.00
Total Cost of Materials					450.0
90.3.13	Rate as per item number 90.3.13 of SH: OD Electrical	each	1.00000	71.30	71.30
TOTAL					450.0

Add CPOH @ 15%	78.19
cost for one each	599.0
Say	599.0

Cost index 32.04 %	9.61
Total with Cost index	608.61
Say	608.61

10 Specification Code: od163326/2019_2020
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od163326/2019_2020 : Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	5W LED Bulb b22 (Make: Luker, Model: LBPC05CL) 6K	each	1.00000	61.15	61.15
Total Cost of Materials					61.15
90.3.13	Rate as per item number 90.3.13 of SH: OD Electrical	each	1.00000	71.30	71.30
1.34	Rate as per item number 1.34 of SH: Wiring	each	1.00000	65.22	65.22
TOTAL					61.15
Add CPOH @ 15%					29.65
cost for one each					227.0
Say					227.0
Cost index 32.04 %					33.96
Total with Cost index					260.96
Say					260.96

11 Specification Code: od168074/2019_2020

SITC of MSB new (Kannur)
Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , od168074/201 hinged door, interconnecting single core multi strand lugged copper wire having 9_2020 : current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoings etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent.
Incomer: 630A, 4P Isolator, Busbar: 630A, Aluminium TP&N busbar, Outgoing: 200A, 36kA, 4P MCCB - 2 Nos.

Code	Description	Unit	Quantity	Rate	Amount
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	20.0000 0	7.03	140.60
	Add Cartage@1.00				1.41
	Add Wastage@5.00				7.03
	Cable tie,tie mount,tinning the terminations etc@15.00				21.09
	total				170.13
MR	630A 4P ISOLATOR (MAKE:L&T, Itemcode: SK956110000)	each	1.00000	13121.4 0	13121.40
	Add Cartage@1.00				131.21
	total				13252.61
1624	4 pole MCCB,200A,36KA	each	2.00000	11176.0 0	22352.00

	Add Cartage@1.00				223.52
		total			22575.52
Total Cost of Materials					35998.26
90.14.11 .13	Rate as per item number 90.14.11.13 of SH: OD Electrical	no	2.00000	1587.83	3175.66
90.14.1. 1	Rate as per item number 90.14.1.1 of SH: OD Electrical	sqm	10.0000 0	2220.87	22208.70
90.14.3. 1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	15.0000 0	40.00	600.00
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	450.000 00	5.22	2349.00
MR	Supply and providing Aluminium bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.	Cum cm	8250.00 000	3.00	24750.00
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	5.00000	796.52	3982.60
90.14.2. 1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.70000	2566.96	1796.87
MR701	Electrician	Day	3.00000	750.00	2250.00
MR720	Khalasi	Day	3.00000	750.00	2250.00
1001	Wireman	Day	3.00000	447.00	1341.00

	TOTAL	66589.26
	Add CPOH @ 15%	15105.31
	cost for one each	115807.0
	Say	115807.0
	Cost index 32.04 %	9781.17
	Total with Cost index	125588.17
	Say	125588.17

12 Specification Code: od168082/2019_2020

od168082/2019_2020 :

SITC of MAIN PANEL (Kannur)
Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoings etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent.
Incomer: 200A, 36kA, 4P MCCB - 1 No, 250A, 4P Isolator - 1 No
200A 4P Contactor & 150A, 4P Contactor
AMF relay with electrical interlock
200A AI busbar for 3 phase and neutral.
Outgoing: 125A, 25kA, 3P, MCCB - 1No
100A, 25kA, 3P MCCB - 3 No.
160A, TPN Isolator - 1 No.
50A 25kA 3P MCCB - 2 no

Code	Description	Unit	Quantity	Rate	Amount
MR1885	Red, Green, Black, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut out dia	each	24.0000 0	44.07	1057.68
	Add Cartage@1.00				10.58
	total				1068.26
MR1832	250/5 A, 5 VA, accuracy class 1, Resin Cast Metering CT	each	3.00000	806.78	2420.34
	Add Cartage@1.00				24.20
	total				2444.54
MR1828	150/5 A, 5 VA, accuracy class 1, Resin Cast Metering CT	each	3.00000	677.97	2033.91

	Add Cartage@1.00				20.34
	total				2054.25
MR1734	multifunction meter to read VA ,PF,KW ,KWh ,KVA,KVAr ,KVARh ,THD ,Phase angle -3ph accuracy class-1 LCD	each	2.00000	6144.07	12288.14
	Add Cartage@1.00				122.88
	total				12411.02
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	35.0000 0	7.03	246.05
	Add Cartage@1.00				2.46
	Add Wastage@5.00				12.30
	Cable tie,tie mount,tinning the terminations etc@15.00				36.91
	total				297.72
MR732	25 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable	metre	10.0000 0	177.12	1771.20
	Add Cartage@1.00				17.71
	Add Wastage@5.00				88.56
	Cable tie,tie mount,tinning the terminations etc@15.00				265.68
	total				2143.15
1624	4 pole MCCB,200A,36KA	each	1.00000	11176.0 0	11176.00
	Add Cartage@1.00				111.76
	total				11287.76
MR	250A TPN Isolator (Make: L&T, Itemcode: SK956830000)	each	1.00000	5979.30	5979.30
	Add Cartage@1.00				59.79
	total				6039.09

MR	MCX33 200A 2NO 2NC 240V 4P POWER CONTACTOR (Make: L&T, Itemcode: CS97021B000)	each	1.00000	11556.7 5	11556.75
	Add Cartage@1.00				115.57
	total				11672.32
MR	AMF Relay - EC2 C&S Make	each	1.00000	8700.00	8700.00
	Add Cartage@1.00				87.00
	total				8787.00
MR	MCX32 160A 2NO 2NC 240V 4P POWER CONTACTOR (Make: L&T, Itemcode: CS97020B000)	each	1.00000	8612.70	8612.70
	Add Cartage@1.00				86.13
	total				8698.83
MR	125A 3P MCCB 25kA (Make: SCHNEIDER, CAT REF: LV516302)	each	1.00000	4507.20	4507.20
	Add Cartage@1.00				45.07
	total				4552.27
MR	160A TPN ISOLATOR (MAKE: L&T, ITEMCODE: FN160ISO)	each	1.00000	4565.00	4565.00
	Add Cartage@1.00				45.65
	total				4610.65
Total Cost of Materials					76066.86
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	30.0000 0	150.43	4512.90
90.14.1. 1	Rate as per item number 90.14.1.1 of SH: OD Electrical	sqm	14.0000 0	2220.87	31092.18
90.14.3. 1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	25.0000 0	40.00	1000.00
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	400.000 00	5.22	2088.00

MR	Supply and providing Aluminium bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.	Cum cm	3500.00 000	3.00	10500.00
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	6.00000	796.52	4779.12
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.70000	2566.96	1796.87
90.14.11.13	Rate as per item number 90.14.11.13 of SH: OD Electrical	no	7.00000	1587.83	11114.81
MR701	Electrician	Day	4.00000	750.00	3000.00
1001	Wireman	Day	4.00000	447.00	1788.00
MR720	Khalasi	Day	4.00000	750.00	3000.00
90.14.10.2	Rate as per item number 90.14.10.2 of SH: OD Electrical	no	5.00000	4148.70	20743.50

Other Engineering Organisations	TOTAL	94354.86
	Add CPOH @ 15%	25722.34
	cost for one each	197205.0
	Say	197205.0
	Cost index 32.04 %	7991.74
	Total with Cost index	205196.74
	Say	205196.74

13 Specification Code: od168125/2019_2020

od168125/2019_2020 : SITC of SSB1 - Classroom building (Kannur) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compartmentalized),

color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoings etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent.
Incomer: 150A, TPN Isolator
Busbar - 150A Al for 3 phases and neutral
Outgoing: 63A, 16kA, 3P MCCB - 1 No
50A, 16kA, 3P MCCB - 5 Nos.
32A, 16kA, 3P MCCB - 1 No

Code	Description	Unit	Quantity	Rate	Amount
MR1885	Red, Green, Black, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut out dia	each	3.00000	44.07	132.21
	Add Cartage@1.00				1.32
	total				133.53
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	25.00000	7.03	175.75
	Add Cartage@1.00				1.76
	Add Wastage@5.00				8.79
	Cable tie,tie mount,tinning the terminations etc@15.00				26.36
	total				212.66
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	6.00000	66.43	398.58
	Add Cartage@1.00				3.99
	Add Wastage@5.00				19.93

	Cable tie,tie mount,tinning the terminations etc@15.00				59.79
	total				482.28
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	25.0000 0	102.36	2559.00
	Add Cartage@1.00				25.59
	Add Wastage@5.00				127.95
	Cable tie,tie mount,tinning the terminations etc@15.00				383.85
	total				3096.39
MR	160A TPN Isolator (Make: L&T, Itemcode: FN160ISO)	each	1.00000	4565.00	4565.00
	Add Cartage@1.00				45.65
	total				4610.65
Total Cost of Materials					8535.51
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	3.00000	150.43	451.29
90.14.1.1	Rate as per item number 90.14.1.1 of SH: OD Electrical	sqm	15.0000 0	2220.87	33313.05
90.14.3.1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	25.0000 0	40.00	1000.00
MR	Supply and providing Aluminium bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.	Cum cm	800.000 00	3.00	2400.00
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	5.00000	796.52	3982.60
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	1.00000	2566.96	2566.96

90.14.11 .13	Rate as per item number 90.14.11.13 of SH: OD Electrical	no	7.00000	1587.83	11114.81
MR701	Electrician	Day	3.00000	750.00	2250.00
1001	Wireman	Day	3.00000	447.00	1341.00
MR720	Khalasi	Day	3.00000	750.00	2250.00
90.14.10 .1	Rate as per item number 90.14.10.1 of SH: OD Electrical	no	7.00000	3272.17	22905.19

	TOTAL	16776.51
	Add CPOH @ 15%	13816.56
	cost for one each	105927.0
	Say	105927.0
	Cost index 32.04 %	3597.13
	Total with Cost index	109524.13
	Say	109524.13

Other Engineering Organisations

14 Specification Code: od168143/2019_2020

PRICE

od168143/201
9_2020 :

SITC of SSB 5 - Fifa ground lighting, feeder pillar, gate DB (Kannur)
Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with 14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoing etc. comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent.
Incomer: 150A, TPN Isolator
Busbar -

150A AI for 3 phases and neutral
Outgoing: 40A SP MCB 10kA - 3 no
40A 3P MCB 10kA - 1 no
63A 16kA 3P MCCB - 2 no

Code	Description	Unit	Quantity	Rate	Amount
MR1885	Red, Green, Black, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut out dia	each	3.00000	44.07	132.21
	Add Cartage@1.00				1.32
	total				133.53
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	8.00000	66.43	531.44
	Add Cartage@1.00				5.31
	Add Wastage@5.00				26.57
	Cable tie,tie mount,tinning the terminations etc@15.00				79.72
	total				643.04
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	20.00000	7.03	140.60
	Add Cartage@1.00				1.41
	Add Wastage@5.00				7.03
	Cable tie,tie mount,tinning the terminations etc@15.00				21.09
	total				170.13
MR732	25 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable	metre	6.00000	177.12	1062.72
	Add Cartage@1.00				10.63
	Add Wastage@5.00				53.14

	Cable tie,tie mount,tinning the terminations etc@15.00				159.41
	total				1285.89
MR	160A TPN Isolator (Make: L&T, Itemcode: FN160ISO)	each	1.00000	4565.00	4565.00
	Add Cartage@1.00				45.65
	total				4610.65
MR1340	40 A to 63 A, TP MCB (C curve), 10 kA breaking capacity	each	1.00000	1302.54	1302.54
	Add Cartage@1.00				13.03
	total				1315.57
MR	MCB 40A SP C CURVE EXORA L&T	each	3.00000	235.00	705.00
	Add Cartage@1.00				7.05
	total				712.05
Total Cost of Materials					8870.86
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	3.00000	150.43	451.29
90.14.1.1	Rate as per item number 90.14.1.1 of SH: OD Electrical	sqm	12.00000	2220.87	26650.44
90.14.3.1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	20.00000	40.00	800.00
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	380.00000	5.22	1983.60
MR	Supply and providing Aluminium bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.	Cum cm	800.00000	3.00	2400.00
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	4.50000	796.52	3584.34
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.70000	2566.96	1796.87

90.14.11 .13	Rate as per item number 90.14.11.13 of SH: OD Electrical	no	2.00000	1587.83	3175.66
MR701	Electrician	Day	3.00000	750.00	2250.00
MR720	Khalasi	Day	3.00000	750.00	2250.00
1001	Wireman	Day	3.00000	447.00	1341.00
90.14.10 .1	Rate as per item number 90.14.10.1 of SH: OD Electrical	no	2.00000	3272.17	6544.34

TOTAL	17111.86
Add CPOH @ 15%	9314.76
cost for one each	71413.0
Say	71413.0
Cost index 32.04 %	2012.43
Total with Cost index	73425.43
Say	73425.43

Other Engineering Organisations

15 Specification Code: od168204/2019_2020

od168204/201 Supply, Installation, Testing and commissioning of 15 KVA UPS with 1 hour
9_2020 : battery back up complete with all accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	Liebert ITA 2 15KVA UPS	each	1.00000	180000. 00	180000.00
	Add Cartage@1.00				1800.00
	total				181800.00
MR2389	12V 80AH Battery	each	32.0000 0	8051.00	257632.00
	Add Cartage@1.00				2576.32
	Add necessary specials@2.00				5152.64

		total			265360.96
Total Cost of Materials					447160.96
1001	Wireman	Day	2.00000	447.00	894.00
1007	Khallasi	Day	2.00000	368.00	736.00

TOTAL					448790.96
Add CPOH @ 15%					67318.64
cost for one each					516110.0
Say					516110.0
Cost index 32.04 %					600.75
Total with Cost index					516710.75
Say					516710.75

FRONT GATE WITH SECURITY CABIN ELECTRICAL WORKS AND COMPOUND WALL LIGHTING

1 Specification Code: od134531/2019_2020

Other Engineering Organisations

Supply, installation , testing and commissioning of Wall fan of 300mm sweep dia od134531/201 on wall, fixing necessary anchor bolts / bolt and nuts etc., as required including 9_2020 : giving connections with the supplied wire along with the Wall fan.
300mm sweep wall fan working on 230 V A/C

Code	Description	Unit	Quantity	Rate	Amount
2860	6 mm dia rivet/ stud/ bolts and nuts	each	4.00000	3.00	12.00
	Add Cartage@1.00				0.12
	total				12.12
MR1192	300 mm sweep Wall Mounting fan	each	1.00000	1313.56	1313.56
	Add Cartage@1.00				13.14
	total				1326.70
Total Cost of Materials					1338.82
1001	Wireman	Day	0.33000	447.00	147.51

MR719	Wireman Helper	Day	0.33000	600.00	198.00
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		TOTAL	1684.33
		Add CPOH @ 15%	252.65
		cost for one each	1937.0
		Say	1937.0
		Cost index 32.04 %	58.95
		Total with Cost index	1995.95
		Say	1995.95

2 Specification Code: od134546/2019_2020

od134546/2019_2020 : Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR807	10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	101.69	101.69
	Add Cartage@1.00				1.02
	total				102.71
TOTAL					102.71
Add CPOH @ 15%					15.41
cost for one metre					118.0
Say					118.0
Cost index 32.04 %					.00
Total with Cost index					118.00

Say	118.00
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3 Specification Code: od163332/2019_2020

od163332/201 SITC of 3W LED Recessed Spot light pre wired, working on 230V, 50Hz AC, 9_2020 : complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	3W LED Recessed Spot light pre wired, working on 230V, 50Hz AC. (Make: Havells, Model no: LHEEBCPBUN1W003)	each	1.00000	271.00	271.00
	Add Cartage@1.00				2.71
	total				273.71
Total Cost of Materials					273.71
90.3.12	Rate as per item number 90.3.12 of SH: OD Electrical	each	1.00000	53.04	53.04
TOTAL					273.71
Add CPOH @ 15%					49.01
cost for one no					376.0
Say					376.0
Cost index 32.04 %					8.33
Total with Cost index					384.33
Say					384.33

4 Specification Code: od163333/2019_2020

od163333/201 SITC of 20/25W LED Surface mounting down light, working on 230V, 50Hz AC, 9_2020 : complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	24W LED Surface panel light (Make: Havells, Model: LHEAABP71L1W024)	each	1.00000	1220.00	1220.00
	Add Cartage@1.00				12.20
	total				1232.20
Total Cost of Materials					1232.2
90.3.11	Rate as per item number 90.3.11 of SH: OD Electrical	each	1.00000	73.04	73.04

TOTAL	1232.2
Add CPOH @ 15%	195.79
cost for one no	1501.0
Say	1501.0
Cost index 32.04 %	11.21
Total with Cost index	1512.21
Say	1512.21

5 Specification Code: od163334/2019_2020

od163334/201 SITC of weather proof pillar light fittings with 9W LED lamp, IP65 for outdoor 9_2020 : purpose pre wired and complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	Crown shaped post top lantern in smoothing moon finish made up of polycarbonate, with 9W LED Bulb. (Make: Havells, Model: LHDC11126099)	each	1.00000	893.00	893.00
	Add Cartage@1.00				8.93
	total				901.93
Total Cost of Materials					901.93

90.3.15	Rate as per item number 90.3.15 of SH: OD Electrical	each	1.00000	74.78	74.78
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TOTAL					901.93
Add CPOH @ 15%					146.51
cost for one no					1123.0
Say					1123.0
Cost index 32.04 %					11.53
Total with Cost index					1134.53
Say					1134.53

6 Specification Code: od163335/2019_2020

od163335/201 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with 9_2020 : all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	LED 3W Spike light, IP65	each	1.00000	450.00	450.00
	Add Cartage@1.00				4.50
	total				454.50
Total Cost of Materials					454.5
90.3.15	Rate as per item number 90.3.15 of SH: OD Electrical	each	1.00000	74.78	74.78
TOTAL					454.5
Add CPOH @ 15%					79.39
cost for one no					609.0
Say					609.0
Cost index 32.04 %					11.85
Total with Cost index					620.85
Say					620.85

7 Specification Code: od163326/2019_2020

od163326/2019_2020 : Supply, installation, testing and commissioning of 5W LED lamp (Make: Luker, Model: LBPC05CL) working on 230V, 50Hz AC, including giving connections as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	5W LED Bulb b22 (Make: Luker, Model: LBPC05CL) 6K	each	1.00000	61.15	61.15
Total Cost of Materials					61.15
90.3.13	Rate as per item number 90.3.13 of SH: OD Electrical	each	1.00000	71.30	71.30
1.34	Rate as per item number 1.34 of SH: Wiring	each	1.00000	65.22	65.22
TOTAL					61.15
Add CPOH @ 15%					29.65
cost for one each					227.0
Say					227.0
Cost index 32.04 %					33.96
Total with Cost index					260.96
Say					260.96

EXTERNAL LIGHTING

1 Specification Code: od134936/2019_2020

od134936/2019_2020 : Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
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MR779	4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	69.49	69.49
	Add Cartage@1.00				0.69
	total				70.18

TOTAL	70.18
Add CPOH @ 15%	10.53
cost for one metre	81.0
Say	81.0
Cost index 32.04 %	.00
Total with Cost index	81.00
Say	81.00

Other Engineering Organisations

2 Specification Code: od134937/2019_2020

od134937/2019_2020 : Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.

Code	Description	Unit	Quantity	Rate	Amount
MR2043	Copper wire 0 to 14 SWG	kg	3.15000	493.22	1553.64
	Add Cartage@1.00				15.54
	Add Wastage@5.00				77.68
	total				1646.86
Total Cost of Materials					1646.86
1085	Solder jointing	each	2.00000	12.00	24.00
1001	Wireman	Day	0.12500	447.00	55.88

1007	Khallasi	Day	0.12500	368.00	46.00
1012	Beldar/coolie	Day	1.00000	368.00	368.00

TOTAL		2140.74
Add CPOH @ 15%		321.11
cost for 30.0 metre		2461.85
cost for one metre		82.0
Say		82.0
Cost index 32.04 %		6.09
Total with Cost index		88.09
Say		88.09

3 Specification Code: od134938/2019_2020

od134938/2019_2020 : Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR782	16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	110.17	110.17
	Add Cartage@1.00				1.10
	total				111.27
TOTAL					111.27
Add CPOH @ 15%					16.69
cost for one metre					128.0
Say					128.0

Cost index 32.04 %	.00
Total with Cost index	128.00
Say	128.00

4 Specification Code: od163348/2019_2020

od163348/2019_2020 : SITC Of Legrand make feeder pillar complete with the following accessories.
 Incomer: 40A, DP Isolator. 40A, DP, RCCB, 100mA. Timer control with
 contactor. Auto/ Manual switch. Outgoing: 10A, SP MCB - 4 Nos.

Code	Description	Unit	Quantity	Rate	Amount
MR	DB (PLEXO3 CABINET IP65 2ROW 24MOD, Cat no: 601832)	each	1.00000	3694.60	3694.60
MR	Isolator (DP40A ISOLATOR DX3, Cat no: 406501)	each	1.00000	352.80	352.80
MR	RCCB (DP 40A 100mA DX3 RCCB, Cat no: 411857)	each	1.00000	2623.60	2623.60
MR	MCB (DX3 SP C10A AC MCB, Cat no: 408590)	each	4.00000	191.80	767.20
MR	Contactor (40A 2 NO CONTACTOR 230V AC, Cat no: 412545)	each	1.00000	2171.40	2171.40
MR	Time switch (Digital weekly astro time switch, cat no: 412654)	each	1.00000	6316.80	6316.80
MR	OMP (FORK BUSBAR SP 12 MOD, Cat no: 404911)	each	1.00000	215.60	215.60
Total Cost of Materials					16142.0
MR701	Electrician	Day	1.00000	750.00	750.00
TOTAL					16892.0
Add CPOH @ 15%					2533.80
cost for one each					19426.0

	Say	19426.0
	Cost index 32.04 %	.00
	Total with Cost index	19426.00
	Say	19426.00

5 Specification Code: od163349/2019_2020

od163349/2019_2020 : Supply installation testing commissioning of 6 meter Octogaonal Pole made of hot dip galvanised GI sheet 70mm top diameter, 130mm bottom diameter thickness 3mm base plate dimensions of 200x200x12mm suitable for wind speed as per IS 875 Part III single arm bracket 0.5mt including connector foundation bolt 4 nos fixed in existing RCC foundation and junctions box etc. with 45W LED street light output greater than 105lumen/W 4000-6000 K with IP 65/66 protection complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	45W LED street light output greater than 105lumen/W 4000-6000 K with IP 65/66 protection (Make: Crompton)	each	1.00000	1980.00	1980.00
Total Cost of Materials					1980.0
90.15.3.3	Rate as per item number 90.15.3.3 of SH: OD Electrical	each	1.00000	17778.26	17778.26
1001	Wireman	Day	0.10000	447.00	44.70
1016	Mate	Day	0.10000	368.00	36.80
1007	Khallasi	Day	0.10000	368.00	36.80
TOTAL					2098.3
Add CPOH @ 15%					2981.48
cost for one each					22858.0
Say					22858.0
Cost index 32.04 %					273.30

Total with Cost index	23131.30
Say	23131.30

ADMINISTRATIVE BUILDING GROUND FLOOR HVAC SYSTEM WORKS
1 Specification Code: od163371/2019_2020

od163371/201
9_2020 : Supply and fixing of drain pipe for HVAC units

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply and fixing of drain pipe for HVAC units	metre	1.00000	150.00	150.00
TOTAL					150.0
cost for one metre					150.0
Say					150.0
Other Engineering Organisations Cost index 32.04 %					.00
Total with Cost index					150.00
Say					150.00

2 Specification Code: od163372/2019_2020
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od163372/201 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber
9_2020 : Tubular insulation with 13/19mm thickness.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber Tubular insulation with 13/19mm thickness.	metre	1.00000	1327.00	1327.00
TOTAL					1327.0

cost for one metre	1327.0
Say	1327.0

Cost index 32.04 %	.00
Total with Cost index	1327.00
Say	1327.00

3 Specification Code: od163376/2019_2020

Supply & installation of Modular type outdoor units equipped with minimum 2 Nos of highly efficient compressors with all inverter type compressor(s) only, special od163376/2019 acryl pre-coated heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting, with multiple outdoor units of capacities and quantities as mentioned below. Refrigerant Should be R410A .(4 HP CARRIER 3 PHASE COMPRESSOR)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	125510.00	125510.00
Total Cost of Materials					125510.0
MR	Fixing	each	1.00000	15000.00	15000.00
TOTAL					140510.0
cost for one each					140510.0
Say					140510.0
Cost index 32.04 %					.00
Total with Cost index					140510.00
Say					140510.00

4 Specification Code: od163392/2019_2020

Supply & installation of High-wall indoor units with compact cooling coil,electronic expansion valve and multi speed fan motor,The blower shall be dynamically balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(1 TR Carrier VRF Indoor Unit)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	22949.00	22949.00
Total Cost of Materials					22949.00
MR	Fixing	each	1.00000	3500.00	3500.00
TOTAL					26449.00
cost for one each					26449.00
Say					26449.00
Cost index 32.04 %					.00
Total with Cost index					26449.00
Say					26449.00

5 Specification Code: od212814/2019_2020

od212814/2019_2020 : Supply & installation of 1.00 TR Split A/C with high wall mounted unit . [Mini 3 * Star rating] Copper Condenser Only (Make: Carrier HW split AC/ Hitachi/ Bluestar)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply & installation	each	1.00000	23000.00	23000.00
TOTAL					23000.00
cost for one each					23000.00
Say					23000.00
Cost index 32.04 %					.00

Total with Cost index	23000.00
Say	23000.00

ELV SYSTEM
1 Specification Code: od134828/2019_2020

od134828/201 SITC of PANASONIC KX-TA 824 24 port hybrid analog Telephone system control
9_2020 : unit intercom with 16 extensions

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply charge	each	1.00000	22881.3 5	22881.35
	Add Cartage@1.00				228.81
	total				23110.16
Total Cost of Materials					23110.16
MR	Installation charge	each	1.00000	1000.00	1000.00
TOTAL					24110.16
cost for one each					24110.0
Say					24110.0
Cost index 32.04 %					.00
Total with Cost index					24110.00
Say					24110.00

2 Specification Code: od134829/2019_2020
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od134829/201 Supply, Installation, Testing and commissioning Of distribution box for CCTV
9_2020 : 6Ux600Wx600D With Front Glass Door,Side Openable Panels with Lock &
Key,4Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10

Code	Description	Unit	Quantity	Rate	Amount
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MR	Distribution box for CCTV 6Ux600Wx600D With Front Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10	no	1.00000	6136.00	6136.00
Total Cost of Materials					6136.0
MR	Labour charges per unit	no	1.00000	1475.00	1475.00

TOTAL					7611.0
cost for one no					7611.0
Say					7611.0
Cost index 32.04 %					.00
Total with Cost index					7611.00
Say					7611.00

3 Specification Code: od134830/2019_2020

Other Engineering Organisations

SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS
, BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-
od134830/201 MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED
9_2020 : POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS
WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS,
POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	25375.0 0	25375.00
	Add Cartage@1.00				253.75
	total				25628.75
Total Cost of Materials					25628.75
MR	Installation charges	each	1.00000	2500.00	2500.00
TOTAL					28128.75

cost for one each	28129.0
Say	28129.0

Cost index 32.04 %	.00
Total with Cost index	28129.00
Say	28129.00

4 Specification Code: od134831/2019_2020

od134831/201 Supply Installation testing and Commissioning of 10/100/1000 Mbps 24 Port
9_2020 : Network Switch to provide networks and internet on class room etc

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	8250.00	8250.00
	Add Cartage@1.00				82.50
	total				8332.50
Total Cost of Materials					8332.5
MR	Installation charges	each	1.00000	750.00	750.00
TOTAL					9082.5
cost for one each					9083.0
Say					9083.0
Cost index 32.04 %					.00
Total with Cost index					9083.00
Say					9083.00

5 Specification Code: od134832/2019_2020

od134832/201 Supply, installation, testing and commissioning of Bio Metric Finger Print scan
9_2020 : attendance system with LCD/LED display & keypad & TCPIP LAN, USB
Connectivity along with Attendance monitoring & report software (Web based

Terminal)

Code	Description	Unit	Quantity	Rate	Amount
MR	Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	each	1.00000	5750.00	5750.00
	Add Cartage@1.00				57.50
	total				5807.50
Total Cost of Materials					5807.5
MR	Installation charges	each	1.00000	1850.00	1850.00
TOTAL					7657.5
cost for one each					7658.0
Say					7658.0
Cost index 32.04 %					.00
Total with Cost index					7658.00
Say					7658.00

6 Specification Code: od134833/2019_2020

od134833/201
9_2020 : Supply and laying of Cat6 outdoor cable including necessary connectors

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply and laying of Cat6 outdoor cable including necessary connectors	metre	1.00000	84.00	84.00
	Add Cartage@1.00				0.84
	total				84.84
TOTAL					84.84

cost for one metre	85.0
Say	85.0

Cost index 32.04 %	.00
Total with Cost index	85.00
Say	85.00

7 Specification Code: od134834/2019_2020

od134834/2019_2020 : Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10

Code	Description	Unit	Quantity	Rate	Amount
MR	6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10	each	1.00000	1100.00	1100.00
	Add Cartage@1.00				11.00
	total				1111.00
Total Cost of Materials					1111.0
MR	Installation charges	each	1.00000	250.00	250.00
TOTAL					1361.0
cost for one each					1361.0
Say					1361.0
Cost index 32.04 %					.00
Total with Cost index					1361.00
Say					1361.00

8 Specification Code: od134835/2019_2020

od134835/201 Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE
9_2020 : Switch.

Code	Description	Unit	Quantity	Rate	Amount
MR	24 Port 10/100/1000 Mbps PoE Switch.	each	1.00000	25625.00	25625.00
	Add Cartage@1.00				256.25
	total				25881.25
Total Cost of Materials					25881.25
MR	Installation charges	each	1.00000	1000.00	1000.00
TOTAL					26881.25
cost for one each					26881.0
Say					26881.0
Cost index 32.04 %					.00
Total with Cost index					26881.00
Other Engineering Organisations Say					26881.00

9 Specification Code: od134836/2019_2020

od134836/201 Supply, installation, testing and commissioning of LAN socket.
9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	each	1.00000	165.00	165.00
	Add Cartage@1.00				1.65
	total				166.65
Total Cost of Materials					166.65
1.27.1	Rate as per item number 1.27.1 of SH: Wiring	each	1.00000	152.17	152.17
TOTAL					166.65

cost for one each	319.0
Say	319.0

Cost index 32.04 %	48.70
Total with Cost index	367.70
Say	367.70

10 Specification Code: od134837/2019_2020

od134837/201 Supply, installation, testing and commissioning of 20 PAIR BOX WITH KRONE
9_2020 : MODULES

Code	Description	Unit	Quantity	Rate	Amount
MR	20 PAIR BOX WITH KRONE MODULES	each	1.00000	725.00	725.00
	Add Cartage@1.00				7.25
	total				732.25
Total Cost of Materials					732.25
MR	Installation charges	each	1.00000	450.00	450.00
TOTAL					1182.25
cost for one each					1182.0
Say					1182.0
Cost index 32.04 %					.00
Total with Cost index					1182.00
Say					1182.00

11 Specification Code: od134838/2019_2020

od134838/201 Supply & Installation of telephone cable 10 pair through PVC conduit.
9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	Telephone cable 10 pair through PVC conduit	metre	1.00000	46.00	46.00
	Add Cartage@1.00				0.46
	total				46.46
Total Cost of Materials					46.46
MR	Installation charge	metre	1.00000	20.00	20.00
TOTAL					66.46
cost for one metre					66.0
Say					66.0
Cost index 32.04 %					.00
Total with Cost index					66.00
Say					66.00

12 Specification Code: od134839/2019_2020

od134839/2019_2020 :

Supply & Installation of UG telephone cable jelly filled, 10 pair

Code	Description	Unit	Quantity	Rate	Amount
MR	UG telephone cable jelly filled, 10 pair	metre	1.00000	97.50	97.50
	Add Cartage@1.00				0.98
	total				98.48
Total Cost of Materials					98.48
MR	Installation charges	metre	1.00000	25.00	25.00
TOTAL					123.48
cost for one metre					123.0
Say					123.0
Cost index 32.04 %					.00

Total with Cost index	123.00
Say	123.00

13 Specification Code: od134840/2019_2020

od134840/201 Supply, Installation, Testing & commissioning of Telephone of approved makes 9_2020 : including all other accessories for connection.

Code	Description	Unit	Quantity	Rate	Amount
MR	Telephone of approved makes including all other accessories for connection.	each	1.00000	1080.00	1080.00
	Add Cartage@1.00				10.80
	total				1090.80
Total Cost of Materials					1090.8
MR	Installation charges	each	1.00000	50.00	50.00
Other Engineering Organisations TOTAL					1140.8
cost for one each					1141.0
Say					1141.0
Cost index 32.04 %					.00
Total with Cost index					1141.00
Say					1141.00

14 Specification Code: od134841/2019_2020

od134841/201 Supply, installation, testing and commissioning of Telephone socket. 9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
Total Cost of Materials					0.0

1.24.6	Rate as per item number 1.24.6 of SH: Wiring	each	1.00000	83.48	83.48
1.27.1	Rate as per item number 1.27.1 of SH: Wiring	each	1.00000	152.17	152.17

TOTAL		0.0
Add CPOH @ 15%		35.35
cost for one each		271.0
Say		271.0
Cost index 32.04 %		86.83
Total with Cost index		357.83
Say		357.83

15 Specification Code: od134842/2019_2020

Supply, Installation, Testing and commissioning of Distribution box for PA od134842/2019 distribution made out of 16 SWG CRCA sheet with lockable door arrangement 9_2020 : having connectors (10 NOS) suitable for 1.5sqmm wire with facility for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination.

Code	Description	Unit	Quantity	Rate	Amount
MR	Distribution box for PA distribution made out of 16 SWG CRCA sheet with lockable door arrangement having connectors (10 NOS) suitable for 1.5sqmm wire with facility for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination	each	1.00000	580.00	580.00
	Add Cartage@1.00				5.80
	total				585.80
Total Cost of Materials					585.8
MR	Installation charges	each	1.00000	250.00	250.00

TOTAL	835.8
cost for one each	836.0
Say	836.0

Cost index 32.04 %	.00
Total with Cost index	836.00
Say	836.00

16 Specification Code: od134843/2019_2020

od134843/201
9_2020 : Supply, Installation, Testing and commissioning of XLR cables and connectors

Code	Description	Unit	Quantity	Rate	Amount
MR	XLR cables and connectors	each	1.00000	1875.00	1875.00
	Add Cartage@1.00				18.75
	Other Engineering Organisations total				1893.75
Total Cost of Materials					1893.75
MR	Installation charges	each	1.00000	150.00	150.00
TOTAL					2043.75
cost for one each					2044.0
Say					2044.0
Cost index 32.04 %					.00
Total with Cost index					2044.00
Say					2044.00

17 Specification Code: od134844/2019_2020

od134844/201 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC
9_2020 : insulated through PVC conduit.

Code	Description	Unit	Quantity	Rate	Amount
MR	2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit	metre	1.00000	48.00	48.00
	Add Cartage@1.00				0.48
	total				48.48
Total Cost of Materials					48.48
MR	Installation charges	each	1.00000	18.00	18.00
TOTAL					66.48
cost for one metre					66.0
Say					66.0
Cost index 32.04 %					.00
Total with Cost index					66.00
Say					66.00

Other Engineering Organisations

18 Specification Code: od134845/2019_2020

od134845/2019_2020 : Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.

Code	Description	Unit	Quantity	Rate	Amount
MR	Indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.	each	1.00000	5650.00	5650.00
	Add Cartage@1.00				56.50
	total				5706.50
Total Cost of Materials					5706.5
MR	Installation charges	each	1.00000	250.00	250.00

TOTAL	5956.5
cost for one each	5957.0
Say	5957.0

Cost index 32.04 %	.00
Total with Cost index	5957.00
Say	5957.00

19 Specification Code: od134846/2019_2020

od134846/2019_2020 : Supply, installation, testing and commissioning of Outdoor IR IP bullet camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR 480TV lines.

Code	Description	Unit	Quantity	Rate	Amount
MR	Outdoor IR IP bullet camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR 480TV lines.	each	1.00000	9850.00	9850.00
	Add Cartage@1.00				98.50
	total				9948.50
Total Cost of Materials					9948.5
MR	Installation charges	each	1.00000	350.00	350.00
TOTAL					10298.5
cost for one each					10299.0
Say					10299.0
Cost index 32.04 %					.00
Total with Cost index					10299.00
Say					10299.00

20 Specification Code: od134847/2019_2020

Network Video Recorder:
Providing & fixing Network Video Recorder 32-channel 720P or 24-channel 1080P high definition network video input and storage Support simultaneous HDMI and VGA output, resolution up to 1920x1080P/60Hz Supports 256Mbps bandwidth throughput handling, Supports 4-channel, 1080P video real-time decoding and synchronous playback Supports 8 SATA hard disk with capacity up to 4TB.

Code	Description	Unit	Quantity	Rate	Amount
MR	Network Video Recorder 32-channel 720P or 24-channel 1080P high definition network video input and storage Support simultaneous HDMI and VGA output, resolution up to 1920x1080P/60Hz Supports 256Mbps bandwidth throughput handling, Supports 4-channel, 1080P video real-time decoding and synchronous playback Supports 8 SATA hard disk with capacity up to 4TB.	each	1.00000	42450.00	42450.00
	Add Cartage@1.00				424.50
	total				42874.50
Total Cost of Materials					42874.5
MR	Installation charges	each	1.00000	7500.00	7500.00
TOTAL					50374.5
cost for one each					50375.0
Say					50375.0
Cost index 32.04 %					.00
Total with Cost index					50375.00
Say					50375.00

21 Specification Code: od134848/2019_2020

od134848/201 Supply, installation, testing and commissioning of 32" Flat Screen VGA Color
9_2020 : Monitor.

Code	Description	Unit	Quantity	Rate	Amount
MR	32" Flat Screen VGA Color Monitor.	each	1.00000	21500.0 0	21500.00
	Add Cartage@1.00				215.00
	total				21715.00
Total Cost of Materials					21715.0
MR	Installation charges	each	1.00000	500.00	500.00
TOTAL					22215.0
cost for one each					22215.0
Say					22215.0
Cost index 32.04 %					.00
Total with Cost index					22215.00
Other Engineering Organisations Say					22215.00

22 Specification Code: od134849/2019_2020

od134849/201 Supply and drawing of CAT6 4 pair cable including all necessary connector.
9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	CAT6 4 pair cable including all necessary connector.	metre	1.00000	21.00	21.00
	Add Cartage@1.00				0.21
	total				21.21
Total Cost of Materials					21.21
MR	Installation charges	metre	1.00000	18.00	18.00
TOTAL					39.21

cost for one metre	39.0
Say	39.0

Cost index 32.04 %	.00
Total with Cost index	39.00
Say	39.00

23 Specification Code: od134850/2019_2020

od134850/201 Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch 9_2020 : Panel.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 24 Port un loaded Patch Panel.	each	1.00000	1350.00	1350.00
	Add Cartage@1.00				13.50
	total				1363.50
Total Cost of Materials					1363.5
MR	Installation charges	each	1.00000	250.00	250.00
TOTAL					1613.5
cost for one each					1614.0
Say					1614.0
Cost index 32.04 %					.00
Total with Cost index					1614.00
Say					1614.00

24 Specification Code: od134851/2019_2020

od134851/201 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel 9_2020 : Shuttered.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 I/O for Patch Panel Shuttered.	each	1.00000	165.00	165.00
	Add Cartage@1.00				1.65
	total				166.65
Total Cost of Materials					166.65
MR	Installation charges	each	1.00000	55.00	55.00
TOTAL					221.65
cost for one each					222.0
Say					222.0
Cost index 32.04 %					.00
Total with Cost index					222.00
Say					222.00

25 Specification Code: od136286/2019_2020

Other Engineering Organisations

od136286/201 SITC of D-Link (DIR-878) AC1900 MU-MIMO 1900Mbps Wi-Fi Router (Without 9_2020 : Modem)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	4460.00	4460.00
	Add Cartage@1.00				44.60
	total				4504.60
Total Cost of Materials					4504.6
MR	Installation charges	each	1.00000	1000.00	1000.00
TOTAL					5504.6
cost for one each					5505.0
Say					5505.0
Cost index 32.04 %					.00

Total with Cost index	5505.00
Say	5505.00

NEW SMART CLASS ROOM (ELECTRICAL WORKS - 2 NOS)
1 Specification Code: od134832/2019_2020

Supply, installation, testing and commissioning of Bio Metric Finger Print scan od134832/201 attendance system with LCD/LED display & keypad & TCPIP LAN, USB 9_2020 : Connectivity along with Attendance monitoring & report software (Web based Terminal)

Code	Description	Unit	Quantity	Rate	Amount
MR	Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	each	1.00000	5750.00	5750.00
	Add Cartage@1.00				57.50
	total				5807.50
Total Cost of Materials					5807.5
MR	Installation charges	each	1.00000	1850.00	1850.00
TOTAL					7657.5
cost for one each					7658.0
Say					7658.0
Cost index 32.04 %					.00
Total with Cost index					7658.00
Say					7658.00

2 Specification Code: od134834/2019_2020
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od134834/2019_2020 : Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10

Code	Description	Unit	Quantity	Rate	Amount
MR	6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10	each	1.00000	1100.00	1100.00
	Add Cartage@1.00				11.00
	total				1111.00
Total Cost of Materials					1111.0
MR	Installation charges	each	1.00000	250.00	250.00
TOTAL					1361.0
cost for one each					1361.0
Say					1361.0
Cost index 32.04 %					.00
Total with Cost index					1361.00
Say					1361.00

3 Specification Code: od134836/2019_2020

od134836/2019_2020 : Supply, installation, testing and commissioning of LAN socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	each	1.00000	165.00	165.00
	Add Cartage@1.00				1.65
	total				166.65
Total Cost of Materials					166.65

1.27.1	Rate as per item number 1.27.1 of SH: Wiring	each	1.00000	152.17	152.17
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TOTAL					166.65
cost for one each					319.0
Say					319.0
Cost index 32.04 %					48.70
Total with Cost index					367.70
Say					367.70

4 Specification Code: od134844/2019_2020

od134844/201 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC 9_2020 : insulated through PVC conduit.

Code	Description	Unit	Quantity	Rate	Amount
MR	2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit	metre	1.00000	48.00	48.00
	Add Cartage@1.00				0.48
	total				48.48
Total Cost of Materials					48.48
MR	Installation charges	each	1.00000	18.00	18.00
TOTAL					66.48
cost for one metre					66.0
Say					66.0
Cost index 32.04 %					.00
Total with Cost index					66.00
Say					66.00

5 Specification Code: od134845/2019_2020

od134845/2019_2020 : Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.

Code	Description	Unit	Quantity	Rate	Amount
MR	Indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.	each	1.00000	5650.00	5650.00
	Add Cartage@1.00				56.50
	total				5706.50
Total Cost of Materials					5706.5
MR	Installation charges	each	1.00000	250.00	250.00
TOTAL					5956.5
Other Engineering Organisations cost for one each					5957.0
Say					5957.0
Cost index 32.04 %					.00
Total with Cost index					5957.00
Say					5957.00

6 Specification Code: od134849/2019_2020

od134849/2019_2020 : Supply and drawing of CAT6 4 pair cable including all necessary connector.

Code	Description	Unit	Quantity	Rate	Amount
MR	CAT6 4 pair cable including all necessary connector.	metre	1.00000	21.00	21.00
	Add Cartage@1.00				0.21

		total				21.21
Total Cost of Materials						21.21
MR	Installation charges	metre	1.00000	18.00		18.00

TOTAL						39.21
cost for one metre						39.0
Say						39.0
Cost index 32.04 %						.00
Total with Cost index						39.00
Say						39.00

7 Specification Code: od133837/2019_2020

od133837/2019_2020 : Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.

Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
MR	Promethean Board AB2T78	no	1.00000	31000.00	31000.00
Total Cost of Materials					31000.0
MR	Installation charges for Promethean Board AB2T78	no	1.00000	3000.00	3000.00
TOTAL					34000.0
cost for one no					34000.0
Say					34000.0
Cost index 32.04 %					.00
Total with Cost index					34000.00
Say					34000.00

8 Specification Code: od133834/2019_2020

od133834/201 Supply, installation, testing, and commissioning of LT Projector and roof mount for 9_2020 : LT projector complete with all accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	SITC Of LT Projector	no	1.00000	20000.00	20000.00
MR	Roof mount for LT Projector	no	1.00000	1200.00	1200.00
MR	Installation charges of Projector and roof mount for projector complete with wire and accessories as required	set	1.00000	3390.00	3390.00
TOTAL					24590.0
cost for one set					24590.0
Say					24590.0
Cost index 32.04 %					.00
Total with Cost index					24590.00
Say					24590.00

SMART CLASS ROOM EXISTING (ELECTRICAL WORKS - 12 NOS)

1 Specification Code: od134832/2019_2020

Supply, installation, testing and commissioning of Bio Metric Finger Print scan od134832/201 attendance system with LCD/LED display & keypad & TCPIP LAN, USB 9_2020 : Connectivity along with Attendance monitoring & report software (Web based Terminal)

Code	Description	Unit	Quantity	Rate	Amount
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MR	Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)	each	1.00000	5750.00	5750.00
	Add Cartage@1.00				57.50
	total				5807.50
Total Cost of Materials					5807.5
MR	Installation charges	each	1.00000	1850.00	1850.00

TOTAL	7657.5
cost for one each	7658.0
Say	7658.0
Cost index 32.04 %	.00
Total with Cost index	7658.00
Say	7658.00

Other Engineering Organisations

2 Specification Code: od134834/2019_2020

od134834/2019_2020 : Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10

Code	Description	Unit	Quantity	Rate	Amount
MR	6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10	each	1.00000	1100.00	1100.00
	Add Cartage@1.00				11.00
	total				1111.00
Total Cost of Materials					1111.0

MR	Installation charges	each	1.00000	250.00	250.00
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TOTAL					1361.0
cost for one each					1361.0
Say					1361.0
Cost index 32.04 %					.00
Total with Cost index					1361.00
Say					1361.00

3 Specification Code: od134836/2019_2020

od134836/2019_2020 : Supply, installation, testing and commissioning of LAN socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	each	1.00000	165.00	165.00
	Add Cartage@1.00				1.65
	total				166.65
Total Cost of Materials					166.65
1.27.1	Rate as per item number 1.27.1 of SH: Wiring	each	1.00000	152.17	152.17
TOTAL					166.65
cost for one each					319.0
Say					319.0
Cost index 32.04 %					48.70
Total with Cost index					367.70
Say					367.70

4 Specification Code: od134844/2019_2020

od134844/201 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC
9_2020 : insulated through PVC conduit.

Code	Description	Unit	Quantity	Rate	Amount
MR	2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit	metre	1.00000	48.00	48.00
	Add Cartage@1.00				0.48
	total				48.48
Total Cost of Materials					48.48
MR	Installation charges	each	1.00000	18.00	18.00
TOTAL					66.48
cost for one metre					66.0
Say					66.0
Cost index 32.04 %					.00
Total with Cost index					66.00
Say					66.00

5 Specification Code: od134845/2019_2020

od134845/201 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP
9_2020 : 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.

Code	Description	Unit	Quantity	Rate	Amount
MR	Indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.	each	1.00000	5650.00	5650.00
	Add Cartage@1.00				56.50
	total				5706.50

Total Cost of Materials					5706.5
MR	Installation charges	each	1.00000	250.00	250.00

TOTAL					5956.5
cost for one each					5957.0
Say					5957.0
Cost index 32.04 %					.00
Total with Cost index					5957.00
Say					5957.00

6 Specification Code: od134849/2019_2020

od134849/2019_2020 : Supply and drawing of CAT6 4 pair cable including all necessary connector.

Code	Description	Unit	Quantity	Rate	Amount
MR	CAT6 4 pair cable including all necessary connector.	metre	1.00000	21.00	21.00
	Add Cartage@1.00				0.21
	total				21.21
Total Cost of Materials					21.21
MR	Installation charges	metre	1.00000	18.00	18.00
TOTAL					39.21
cost for one metre					39.0
Say					39.0
Cost index 32.04 %					.00
Total with Cost index					39.00
Say					39.00

7 Specification Code: od133837/2019_2020

od133837/2019_2020 : Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.

Code	Description	Unit	Quantity	Rate	Amount
MR	Promethean Board AB2T78	no	1.00000	31000.0 0	31000.00
Total Cost of Materials					31000.0
MR	Installation charges for Promethean Board AB2T78	no	1.00000	3000.00	3000.00
TOTAL					34000.0
cost for one no					34000.0
Say					34000.0
Cost index 32.04 %					.00
Total with Cost index					34000.00
Say					34000.00

8 Specification Code: od133834/2019_2020

od133834/2019_2020 : Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	SITC Of LT Projector	no	1.00000	20000.0 0	20000.00
MR	Roof mount for LT Projector	no	1.00000	1200.00	1200.00
MR	Installation charges of Projector and roof mount for projector complete with wire and accessories as required	set	1.00000	3390.00	3390.00

TOTAL	24590.0
cost for one set	24590.0
Say	24590.0

Cost index 32.04 %	.00
Total with Cost index	24590.00
Say	24590.00

9 Specification Code: od134996/2019_2020

od134996/201 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch 9_2020 : Panel.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	950.00	950.00
	Add Cartage@1.00				9.50
	Other Engineering Organisations total				959.50
Total Cost of Materials					959.5
MR	Installation charges	each	1.00000	200.00	200.00
TOTAL					1159.5
cost for one each					1160.0
Say					1160.0
Cost index 32.04 %					.00
Total with Cost index					1160.00
Say					1160.00

10 Specification Code: od134997/2019_2020

od134997/201 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE 9_2020 : Switch.

Code	Description	Unit	Quantity	Rate	Amount
MR	16 Port 10/100/1000 Mbps PoE Switch.	each	1.00000	13220.35	13220.35
	Add Cartage@1.00				132.20
	total				13352.55
Total Cost of Materials					13352.55
MR	Installation charges	each	1.00000	1000.00	1000.00
TOTAL					14352.55
cost for one each					14353.0
Say					14353.0
Cost index 32.04 %					.00
Total with Cost index					14353.00
Say					14353.00

11 Specification Code: od134851/2019_2020

od134851/201 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel 9_2020 : Shuttered.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 I/O for Patch Panel Shuttered.	each	1.00000	165.00	165.00
	Add Cartage@1.00				1.65
	total				166.65
Total Cost of Materials					166.65
MR	Installation charges	each	1.00000	55.00	55.00
TOTAL					221.65
cost for one each					222.0
Say					222.0
Cost index 32.04 %					.00

Total with Cost index	222.00
Say	222.00

12 Specification Code: od135045/2019_2020

od135045/2019_2020 : Supply, installation, testing and commissioning of wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key, Side Openable Panels with Lock & Key, 6Way 5A PDU, 1U Cable Manager, Cooling Fan, H/W Kit10

Code	Description	Unit	Quantity	Rate	Amount
MR	wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key, Side Openable Panels with Lock & Key, 6Way 5A PDU, 1U Cable Manager, Cooling Fan, H/W Kit10	each	1.00000	7375.00	7375.00
	Add Cartage@1.00				73.75
	Other Engineering Organisations total				7448.75
Total Cost of Materials					7448.75
MR	Installation charges	each	1.00000	1250.00	1250.00
TOTAL					8698.75
cost for one each					8699.0
Say					8699.0
Cost index 32.04 %					.00
Total with Cost index					8699.00
Say					8699.00

13 Specification Code: od134830/2019_2020

od134830/2019_2020 : SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC, FREQUENCY RESPONSE (50 HZ-16000HZ), S/N RATIO-

MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	25375.00	25375.00
	Add Cartage@1.00				253.75
	total				25628.75
Total Cost of Materials					25628.75
MR	Installation charges	each	1.00000	2500.00	2500.00
TOTAL					28128.75
cost for one each					28129.0
Say					28129.0
Cost index 32.04 %					.00
Total with Cost index					28129.00
Say					28129.00

14 Specification Code: od134974/2019_2020

od134974/201 Supply, installation, testing and commissioning of 10/100/1000 Mbps 16 Port Network Switch to provide networks and internet on class room etc

Code	Description	Unit	Quantity	Rate	Amount
MR	10/100/1000 Mbps 16 Port Network Switch	each	1.00000	5500.00	5500.00
	Add Cartage@1.00				55.00
	total				5555.00
Total Cost of Materials					5555.0

MR	Installation charges	each	1.00000	750.00	750.00
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				TOTAL	6305.0
				cost for one each	6305.0
				Say	6305.0
				Cost index 32.04 %	.00
				Total with Cost index	6305.00
				Say	6305.00

15 Specification Code: od135048/2019_2020

od135048/2019_2020 : Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR807	10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE	metre	1.00000	120.00	120.00
	Add Cartage@1.00				1.20
	total				121.20
TOTAL					121.2
Add CPOH @ 15%					18.18
cost for one metre					139.0
Say					139.0
Cost index 32.04 %					.00
Total with Cost index					139.00
Say					139.00

16 Specification Code: od136286/2019_2020

od136286/201 SITC of D-Link (DIR-878) AC1900 MU-MIMO 1900Mbps Wi-Fi Router (Without
9_2020 : Modem)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	4460.00	4460.00
	Add Cartage@1.00				44.60
	total				4504.60
Total Cost of Materials					4504.6
MR	Installation charges	each	1.00000	1000.00	1000.00
TOTAL					5504.6
cost for one each					5505.0
Say					5505.0
Cost index 32.04 %					.00
Total with Cost index					5505.00
Say					5505.00

17 Specification Code: od136298/2019_2020

od136298/201 Supply, installation, testing and commissioning of 24" Monitor for CCTV
9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, installation, testing and commissioning of 24" Monitor for CCTV	no	1.00000	8050.85	8050.85
TOTAL					8050.85
cost for one no					8051.0
Say					8051.0

Cost index	32.04 %	.00
Total with Cost index		8051.00
	Say	8051.00

18 Specification Code: od136299/2019_2020

od136299/201
9_2020 : SITC Of NVR 8 Channel for CCTV

Code	Description	Unit	Quantity	Rate	Amount
MR	SITC OF NVR 8 Channel	no	1.00000	7203.40	7203.40
TOTAL					7203.4
cost for one no					7203.0
Say					7203.0
				Cost index	32.04 %
					.00
Total with Cost index					7203.00
Say					7203.00

Main Building Ground Floor Fire Fighting works

1 Specification Code: od254856/2019_2020

od254856/201
9_2020 : (Kannur) Below Ground Piping :- Providing, fixing, welding joints and testing of 100 mm Dia. heavy class MS ERW Black pipes as per relevant IS 1239/3589 with special accessories tees, elbows, flanged joints, rubber insertion, nuts, bolts, washers or welded joint with flange joints on bends, including fixing the pipe with suitable flat iron strip clamps/brackets structural members dash fastener,civil breakage,making good the same etc. painting with a primer coat and two coats of postal red enamel etc. complete as required. (for wet riser system)

Code	Description	Unit	Quantity	Rate	Amount
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MR	(2019 Fire DSR & AOR)4250-100 MM DIA C CLASS MS PIPE	metre	10.0000 0	723.64	7236.40
MR	Cost of necessary brackets, supports, saddles, clamps, hangers, vibration- isolator's and fittings such as bends, tees etc. @15%	L.S	0.15000	7236.41	1085.46
MR	Cartage 5%	L.S	0.05000	8321.87	416.09
MR	(2019 Fire DSR & AOR) 4342 Welding rod	job	1.00000	102.73	102.73
MR	Adhesive	L.S	1.00000	100.00	100.00
MR	Bitumen paint	Litre	3.00000	76.00	228.00
MR	PYPKOTE	sqm	7.85000	267.00	2095.95
Total Cost of Materials					11264.63
MR	Fabricator	Day	2.00000	454.51	909.02
MR	Man Mazdoor	Day	3.00000	372.97	1118.91
MR	Fuse welder	Day	1.25000	412.23	515.29
1087	Welder	Day	2.00000	447.00	894.00

TOTAL	14701.85
Add CPOH @ 15%	2205.28
cost for 10.0 per metre	16907.13
cost for one per metre	1691.0
Say	1691.0
Cost index 32.04 %	33.00
Total with Cost index	1724.00
Say	1724.00

2 Specification Code: od254565/2019_2020

od254565/201 (Kannur)4.1P: Supplying, installation, testing and commissioning of electric driven

9_2020 : terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520 Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required. Suitable cement concrete foundation duly plastered and with anti vibration pads. 900lpm @ 35 m head

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4315 - Cost of Horizontal type, multistage, centrifugal, split casing pump with bronze impeller stainless steel shaft, mechanical seal at a flow of 900 lpm at 35 m Head conforming to IS 1520 Cost of SQ cage induction motor, TEFC, synchronous speed of 1500 RPM having class-'F' insulation and protection class IP 55 as per IS-325. Cost of MS base plate coupling, coupling guard, foundation bolts and anti vibration pads	each	1.00000	80934.82	80934.82
	Add Cartage@1.00				809.35
	total				81744.17
MR	(2019 Fire DSR & AOR)4320 Cost of cement concrete foundation with 35x35x5mm angle frame on edges duly plastered with inertia blocks	cum	0.36000	5136.26	1849.05
	Add Cartage@1.00				18.49
	total				1867.54

Total Cost of Materials					83611.71
1004	Fitter, Grade 1	Day	1.50000	447.00	670.50
1087	Welder	Day	1.50000	447.00	670.50
MR	(2019 Fire DSR & AOR) 1025 Helper	Day	3.00000	636.90	1910.70

TOTAL					86863.41
Add CPOH @ 15%					13029.51
cost for one each					99893.0
Say					99893.0
Cost index 32.04 %					494.06
Total with Cost index					100387.06
Say					100387.06

3 Specification Code: od254566/2019_2020

(Kannur) 7.7: Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS
3589/IS 1239 including Welding, fittings like elbows, od254566/201 tees, flanges, tapers, nuts bolts, gaskets
etc. and fixing the pipe on the 9_2020 : wall/ceiling with suitable clamp/support frame and painting with
two or more coats of synthetic enamel paint of required shade complete as required :
100mm dia pipe

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4250 (a) Cost of 100 mm dia MS Pipe	metre	10.0000 0	723.64	7236.40
	Add Wastage@5.00				361.82
	total				7598.22
MR	(2019 Fire DSR & AOR) Add for necessary brackets, support, saddles, clamps, hangers, vibration-isolator and fitting such as bends, tees, welding material etc. @15% 	L.S	0.15000	7598.23	1139.73

MR	(2019 Fire DSR & AOR) Cartage @1%	each	0.01000	8737.96	87.38
Total Cost of Materials					8825.33
1004	Fitter, Grade 1	Day	2.00000	447.00	894.00
1087	Welder	Day	0.75000	447.00	335.25
1006	Painter	Day	0.25000	407.00	101.75
MR	(2019 Fire DSR & AOR)1025 Helper	Day	3.00000	636.90	1910.70

TOTAL	12067.03
Add CPOH @ 15%	1810.05
cost for 10.0 per metre	13877.08
cost for one per metre	1388.0
Say	1388.0
Cost index 32.04 %	49.02
Total with Cost index	1437.02
Say	1437.02

Other Engineering Organisations

4 Specification Code: od254567/2019_2020

od254567/2019_2020 : (Kannur(14.5) Providing, installation, testing and commissioning of non-return valve of following sizes
confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 100mm dia

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4264 (a) Cost of 40 mm dia Non Return Valve	each	1.00000	7541.16	7541.16
	Add Cartage@1.00				75.41
	total				7616.57
MR	(2019 Fire DSR & AOR) 4343 (b) Cost of 100 mm dia flange	each	2.00000	251.11	502.22
	Add Cartage@1.00				5.02

		total				507.24
MR	(2019 Fire DSR & AOR) 4341 (c) Cost of 8 Nos. Nut Bolt fastner & packing gaskets	each	1.00000	205.45		205.45
	Add Cartage@1.00					2.05
		total				207.50
MR	(2019 Fire DSR & AOR)4332 (d) Cost of welding rod	job	1.00000	102.73		102.73
	Add Cartage@1.00					1.03
		total				103.76
Total Cost of Materials						8435.07
1004	Fitter, Grade 1	Day	0.50000	447.00		223.50
1087	Welder	Day	0.20000	447.00		89.40
MR	(2019 Fire DSR & AOR) 1025 Helper	Day	0.71000	636.90		452.20

	TOTAL	9200.17
	Add CPOH @ 15%	1380.03
	cost for one each	10580.0
	Say	10580.0
	Cost index 32.04 %	115.34
	Total with Cost index	10695.34
	Say	10695.34

5 Specification Code: od254568/2019_2020

(Kannur) 19.1 : Supplying and fixing of fire brigade connection of cast iron body od254568/201 with gun metal male
instantaneous inlet couplings complete with cap and 9_2020 : chain as reqd. for suitable dia MS pipe
connection conforming to IS 904 as required : 2 way-100 mm dia M.S. Pipe

Code	Description	Unit	Quantity	Rate	Amount
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MR	(2019 Fire DSR & AOR) 4205 (a) Cost of two way gunmetal FBC connection	each	1.00000	4567.84	4567.84
	Add Cartage@1.00				45.68
	total				4613.52
MR	(2019 Fire DSR & AOR) 4329 (b) Cost of 4 Nos. nuts bolts and washers LS	set	1.00000	57.07	57.07
	Add Cartage@1.00				0.57
	total				57.64
MR	(2019 Fire DSR & AOR) 4330 (c) Cost of 1 No. 3mm thick rubber gasket	each	1.00000	79.90	79.90
	Add Cartage@1.00				0.80
	total				80.70
MR	(2019 Fire DSR & AOR) 4331 (d) Cost of 1 No. MS flange as per IS drilling 16mm thick LS	set	1.00000	228.28	228.28
	Add Cartage@1.00				2.28
	total				230.56
MR	(2019 Fire DSR & AOR) 4332 (e) Cost of welding rod	job	1.00000	45.66	45.66
	Add Cartage@1.00				0.46
	total				46.12
Total Cost of Materials					5028.54
1004	Fitter, Grade 1	Day	0.25000	447.00	111.75
1087	Welder	Day	0.25000	447.00	111.75
MR	(2019 Fire DSR & AOR) 1025- Helper	Day	0.50000	636.90	318.45

TOTAL		5570.49
Add CPOH @ 15%		835.57
cost for one each		6406.0
Say		6406.0

Cost index 32.04 %	82.34
Total with Cost index	6488.34
Say	6488.34

6 Specification Code: od254569/2019_2020

od254569/201 (Kannur) Providing & fixing 25mm Air release valve as per IS:14845 ISI Marked
9_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4290- Providing & fixing 25mm Air release valve as per IS:14845 ISI Marked	each	1.00000	1540.88	1540.88
	Add Cartage@1.00				15.41
	total				1556.29
Total Cost of Materials					1556.29
1004	Fitter, Grade 1	Day	0.10000	447.00	44.70
TOTAL					1600.99
Add CPOH @ 15%					240.15
cost for one each					1841.0
Say					1841.0
Cost index 32.04 %					16.34
Total with Cost index					1857.34
Say					1857.34

7 Specification Code: od254570/2019_2020

od254570/201 (Kannur) 22 : Providing & fixing of pressure switch in M.S. pipe line including
9_2020 : connection etc. as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4318 Cost of water flow switch	each	1.00000	1125.41	1125.41
	Add Cartage@1.00				11.25
	total				1136.66
Total Cost of Materials					1136.66
1004	Fitter, Grade 1	Day	0.06200	447.00	27.71
1087	Welder	Day	0.06200	447.00	27.71
MR	(2019 Fire DSR & AOR) 1025- Helper	Day	0.12500	636.90	79.61
TOTAL					1271.69
Add CPOH @ 15%					190.75
cost for one each					1462.0
Say					1462.0
Cost index 32.04 %					20.19
Total with Cost index					1482.19
Say					1482.19

8 Specification Code: od254571/2019_2020

(Kannur) 11.5 : Supplying, fixing, testing and commissioning of butterfly valve of od254571/201 PN 1.6 rating with
bronze/gunmetal seat duly ISI marked complete with nuts, 9_2020 : bolts, washers, gaskets
conforming to IS 13095 of following sizes as required :100mm dia

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4238 - Cost of 100 mm dia butterfly valve	each	1.00000	3772.29	3772.29
	Add Cartage@1.00				37.72
	total				3810.01

MR	(2019 Fire DSR & AOR) 4343- Cost of 100 mm dia Flange	each	2.00000	251.11	502.22
	Add Cartage@1.00				5.02
	total				507.24
MR	(2019 Fire DSR & AOR) 4341- Cost of 8 Nos. Nut bolt fastner and packing gaskets	each	1.00000	205.45	205.45
	Add Cartage@1.00				2.05
	total				207.50
MR	(2019 Fire DSR & AOR) 4342 - (2019 Fire DSR & AOR)	each	1.00000	102.72	102.72
	Add Cartage@1.00				1.03
	total				103.75
Total Cost of Materials					4628.5
1004	Fitter, Grade 1	Day	0.50000	447.00	223.50
1087	Welder	Day	0.20000	447.00	89.40
MR	(2019 Fire DSR & AOR) 1025- Helper	Day	0.70000	636.90	445.83

TOTAL		5387.23
Add CPOH @ 15%		808.08
cost for one each		6195.0
Say		6195.0
Cost index 32.04 %		115.34
Total with Cost index		6310.34
Say		6310.34

9 Specification Code: od254572/2019_2020

od254572/201 (Kannur)9.2: Supplying and fixing single headed internal hydrant valve with 9_2020 : instantaneous
Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron

wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :Single headed Stainless steel

Code	Description	Unit	Quantity	Rate	Amount
MR	(From 2019 Fire DSR & DOR) 4202 - Cost of Single Head Stainless Steel Hydrant Valve	each	1.00000	4048.51	4048.51
	Add Cartage@1.00				40.49
	total				4089.00
MR	(From 2019 Fire DSR & AOR) 4329- Cost of 4 Nos. nuts bolts and washers	set	1.00000	57.07	57.07
	Add Cartage@1.00				0.57
	total				57.64
MR	(From 2019 Fire DSR & AOR) 4330 - Cost of 1 No. 3 mm thick rubber gasket	each	1.00000	79.90	79.90
	Add Cartage@1.00				0.80
	total				80.70
MR	(From 2019 Fire DSR & AOR) 4331- Cost of 1 No. MS flange as per IS drilling 16mm thick LS	set	1.00000	228.28	228.28
	Add Cartage@1.00				2.28
	total				230.56
MR	(From 2019 Fire DSR & AOR) 4332- Cost of welding rod	job	1.00000	45.66	45.66
	Add Cartage@1.00				0.46
	total				46.12
Total Cost of Materials					4504.02
1004	Fitter, Grade 1	Day	0.25000	447.00	111.75
1087	Welder	Day	0.25000	447.00	111.75

MR	(From 2019 Fire DSR & AOR) 1025-Helper	Day	0.50000	636.90	318.45
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TOTAL		5045.97
Add CPOH @ 15%		756.90
cost for one each		5803.0
Say		5803.0
Cost index 32.04 %		82.34
Total with Cost index		5885.34
Say		5885.34

10 Specification Code: od254573/2019_2020

od254573/2019_2020 :

(Kannur) 7.1: Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office
red, conforming to IS 884 complete with the following as required.
20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS:
12585
20 mm nominal internal dia gun metal globe valve & nozzle.
Drum and brackets for fixing the equipments on wall.
Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket - 30m

Code	Description	Unit	Quantity	Rate	Amount
MR	(2019 Fire DSR & AOR) 4210 - Cost of swinging type hose reel complete with 19mm x 30m Thermolplastic hose	each	1.00000	2331.86	2331.86
	Add Cartage@1.00				23.32
	total				2355.18
MR	(2019 Fire DSR & AOR) 4212 -)Hose reel drum	each	1.00000	2682.27	2682.27
	Add Cartage@1.00				26.82
	total				2709.09

MR	(2019 Fire DSR & AOR) 4213 - Cost of 25mm dia gunmetal gate valve	each	1.00000	788.70	788.70
	Add Cartage@1.00				7.89
	total				796.59
MR	(2019 Fire DSR & AOR) 4355 - Cost of 25mm dia socket, union, nipples (Lumpsum)	each	1.00000	239.69	239.69
	Add Cartage@1.00				2.40
	total				242.09
Total Cost of Materials					6102.95
1004	Fitter, Grade 1	Day	0.50000	447.00	223.50
1087	Welder	Day	0.25000	447.00	111.75
MR	(2019 Fire DSR & AOR) 1025- Helper	Day	1.00000	636.90	636.90

TOTAL		7075.1
Add CPOH @ 15%		1061.27
Other Engineering Organisations cost for one each		8136.0
Say		8136.0
Cost index 32.04 %		123.35
Total with Cost index		8259.35
Say		8259.35

11 Specification Code: od163566/2019_2020

FIRE DUCT :- Supply & installing in position self glowing " FIRE DUCT " sign od163566/201 board of size 100mm x 300 mm made of luminescent safely, rigid sheet in green 9_2020 : colour, photo luminescent rigid sheet with two each hanging chains / or fixed on wall & necessary supports to hang it on ceiling / or on wall.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply&fixing	each	1.00000	510.00	510.00

TOTAL	510.0
cost for one each	510.0
Say	510.0

Cost index 32.04 %	.00
Total with Cost index	510.00
Say	510.00

12 Specification Code: od163569/2019_2020

FIRE EXIT :- Supply & installing in position self glowing " FIRE EXIT " sign board od163569/201 of size 100mm x 300 mm made of luminescent safely, rigid sheet in green colour, 9_2020 : photo luminescent rigid sheet with two each hanging chains & necessary supports to hang it on ceiling.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply & fixing	each	1.00000	510.00	510.00
TOTAL					510.0
cost for one each					510.0
Say					510.0
Cost index 32.04 %					.00
Total with Cost index					510.00
Say					510.00

13 Specification Code: od163570/2019_2020

ESCAPE ROUTE SIGNS :- Supply & installing in position self glowing " EXIT " od163570/201 sign board to guide the occupants towards the exits of size 100mm x 300 mm 9_2020 : made of luminescent safely, rigid sheet in green colour, photo luminescent rigid sheet with two each hanging chains & necessary supports to hang it on ceiling.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply & fixing	each	1.00000	713.00	713.00

TOTAL					713.0
cost for one each					713.0
Say					713.0
Cost index 32.04 %					.00
Total with Cost index					713.00
Say					713.00

14 Specification Code: od134479/2019_2020

od134479/2019_2020 : M.S Hose Cabinet : - Providing & fixing M.S Hose cabinet door with powder coating of postal red color (of size minimum 1200mm wide, 2100mm height) made of M.S sheet 14 G with glass front door and locking arrangement to accommodate 2-hoses, one branch pipe and to accommodate F.A. hose reel in addition for internal hydrant complete as per direction of Engineer incharge.

Code	Description	Unit	Quantity	Rate	Amount
MR2336	Hose Cabinet- Double	each	1.00000	3305.00	3305.00
	Add Cartage@1.00				33.05
	Add necessary specials@5.00				165.25
	total				3503.30
Total Cost of Materials					3503.3
1004	Fitter, Grade 1	Day	1.00000	447.00	447.00
1087	Welder	Day	2.00000	447.00	894.00
TOTAL					4844.3
Add CPOH @ 15%					726.64
cost for one each					5571.0
Say					5571.0

Cost index 32.04 %	494.06
Total with Cost index	6065.06
Say	6065.06

15 Specification Code: od134482/2019_2020

od134482/2019_2020 : Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 5 kg capacity with initial charger and installation brackets. Make - Safex / Warrior / Intime

Code	Description	Unit	Quantity	Rate	Amount
MR2379	Fire Extinguisher-DCP 5 Kg Type	each	1.00000	1695.00	1695.00
	Add Cartage@1.00				16.95
	total				1711.95
Total Cost of Materials					1711.95
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40
TOTAL					1801.35
Add CPOH @ 15%					270.20
cost for one each					2072.0
Say					2072.0
Cost index 32.04 %					33.00
Total with Cost index					2105.00
Say					2105.00

16 Specification Code: od134483/2019_2020

od134483/2019_2020 : Providing 63mm (2½)" dia 15 m long canvas hose pipe complete with stainless steel male & female coupling stainless steel wire wound with the pipe The pipe shall confirm to IS. 4927. Make: ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR2337	C.P.Hose	each	1.00000	4153.00	4153.00
	Add Cartage@1.00				41.53
	total				4194.53
Total Cost of Materials					4194.53
1004	Fitter, Grade 1	Day	0.40000	447.00	178.80
MR704	Man Mazdoor	Day	0.40000	675.00	270.00
TOTAL					4643.33
Add CPOH @ 15%					696.50
cost for one each					5340.0
Say					5340.0
Cost index 32.04 %					66.00
Total with Cost index					5406.00
Say					5406.00

Other Engineering Organisations

17 Specification Code: od134487/2019_2020

od134487/2019_2020 : Providing & fixing pressure gauges of not less than 100mm dia dial of pressure range 0-10 kg/cmsq complete with shut off valve duly calibrated before installation. Make:- ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR2357	Pressure Guage	each	1.00000	720.00	720.00
	Add Cartage@1.00				7.20
	total				727.20
Total Cost of Materials					727.2
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40
TOTAL					816.6
Add CPOH @ 15%					122.49

cost for one each	939.0
Say	939.0

Cost index 32.04 %	33.00
Total with Cost index	972.00
Say	972.00

18 Specification Code: od134489/2019_2020

od134489/2019_2020 : Supply and drawing of 2.5 sqmm 3 core PVC / XLPE insulated armoured control cables with copper conductors for working voltages up to and including 1100 V conforming to IS 1554 part I 1988 for PVC and IS 7098 Part I for XLPE

Code	Description	Unit	Quantity	Rate	Amount
MR889	2.5 sqmm 3 core PVC / XLPE insulated armoured control cables with copper conductors for working voltages up to and including 1100 V conforming to IS 1554 part I 1988 for PVC and IS 7098 Part I for XLPE	metre	1.00000	121.19	121.19
	Add Cartage@1.00				1.21
	Add Wastage@5.00				6.06
	total				128.46
Total Cost of Materials					128.46
1001	Wireman	Day	0.16000	447.00	71.52
1007	Khallasi	Day	0.16000	368.00	58.88
TOTAL					258.86
Add CPOH @ 15%					38.83
cost for one metre					298.0
Say					298.0
Cost index 32.04 %					48.06

Total with Cost index	346.06
Say	346.06

19 Specification Code: od133918/2019_2020

od133918/2019_2020 : Supply, Installation, Testing and commissioning of Over head tank (Structural Steel) with necessary Accessories (Nuts,Bolt and Support.etc) , Approved Make/Materials :- ISI Approved Materials.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of Structural Steel (Sheets,Joist,Channels and Plate) with accessories	kg	3920.00 000	60.00	235200.00
	Add Wastage@5.00				11760.00
	total				246960.00
Total Cost of Materials					246960.0
MR	Fabrication primer coating, Painting, Erection Labour Charge	kg	3920.00 000	40.00	156800.00
MR	Sheet Bending Charges	kg	3920.00 000	30.00	117600.00
MR	Labour charge for Material Lifting	kg	10.0000 0	10.00	100.00
MR	Fibre Coating (3 Layer) inside over head tank, Material charge inclusive	per sqm	22.0000 0	2478.00	54516.00
TOTAL					575976.0
Add CPOH @ 15%					86396.40
cost for one no					662372.0
Say					662372.0
Cost index 32.04 %					.00
Total with Cost index					662372.00

Say	662372.00
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20 Specification Code: od254878/2019_2020

od254878/201 Providing and fixing Fire Man axe as required with Test Certificate of 20,000
9_2020 : volts.Make : - ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply & fixing	each	1.00000	1524.00	1524.00
TOTAL					1524.0
cost for one each					1524.0
Say					1524.0
Cost index 32.04 %					.00
Total with Cost index					1524.00
Say					1524.00

Other Engineering Organisations

PRICE