

Data Analysis

MAIN BUILDING CIVIL WORKS

1 Specification Code: od15636/2019_2020

od15636/2019_2020 :Supply and install externally 1st quality 30x15x0.8cm brick pattern ceramic tile for walls 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	720.00	738.00
8731	High polymer modified quickset tile adhesive	kg	10.00000	9.00	90.00
MR	Tile joint filler	kg	0.05140	55.00	2.83
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					1091.13
Other Engineering Organisations cost for one sqm					1091.13
say					1091.13

	Add Water Charges @ 1.0%				10.91
	Add CPOH @ 15.0%				165.30
	Cost index 31.06 %				126.37
	Total with Cost index				1393.72
	Say				1393.72

2 Specification Code: od15643/2019_2020

**od15643/2019_2020 :Supplying 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	Supply	sqm	1.00000	7084.00	7084.00
MR	Cartage	sqm	1.00000	200.00	200.00
TOTAL					7284.00
cost for one sqm of door area					7284.00
	say				7284.00

	Add Water Charges @ 1.0%				72.84
	Add CPOH @ 15.0%				1103.52
	Cost index 31.06 %				0.00
	Total with Cost index				8460.37
	Say				8460.37

3 Specification Code: od15644/2019_2020

od15644/2019_2020 :Supplying 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	sqm	1.00000	6844.00	6844.00
MR	Cartage	sqm	1.00000	200.00	200.00
MR	Fixing Charges	sqm	1.00000	250.00	250.00
TOTAL					7294.00
cost for one sqm					7294.00

	say				7294.00
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	Add Water Charges @ 1.0%				72.94
	Add CPOH @ 15.0%				1105.04
	Cost index 31.06 %				0.00
	Total with Cost index				8471.98
	Say				8471.98

4 Specification Code: od15645/2019_2020

od15645/2019_2020 :Supply and fixing steel doors with jamb of 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.(Ileaf, jsw, tata or approved equivalent.)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply and fixing door	sqm	1.00000	11265.00	11265.00
MR	Fittings	sqm	1.00000	1270.00	1270.00
MR	Transportation	sqm	1.00000	200.00	200.00
TOTAL					12735.00
cost for one sqm of door area					12735.00
	say				12735.00

	Add Water Charges @ 1.0%				127.35
	Add CPOH @ 15.0%				1929.35
	Cost index 31.06 %				0.00
	Total with Cost index				14791.70
	Say				14791.70

5 Specification Code: od15696/2019_2020

od15696/2019_2020 :Supply Corten A grade 3mm thick warm rolled sloted cassettes fixed to plastered wall spacing in the hidden plastic suspension mounts with stainless steel class A2, 35 mm long and 8 mm dia pins and anchor bolts etc.

Detail of cost for 1 sqm

Code	Description	Unit	Quantity	Rate	Amount
MR	supply of 3mm thick corton steel cassetts	per sqm	1.05000	2303.00	2418.15
MR	Add 7% for supply of concealed mounts, stainless steel pins and anchor bolts etc.	L.S	0.07000	2418.15	169.27
0116	Fitter(grade1)	Day	0.20000	487.00	97.40
0115	Coolie	Day	0.20000	368.00	73.60
9999	Sundries	L.S	1.26100	1.73	2.18
TOTAL					2760.60
cost for one sqm					2760.60
	say				2760.60

	Add Water Charges @ 1.0%				27.60
	Add CPOH @ 15.0%				418.23
	Cost index 31.06 %				62.47
	Total with Cost index				3268.91
	Say				3268.91

6 Specification Code: od15624/2019_2020

od15624/2019_2020 :Supply & Fixing square Cockroach proof Traps with CP Gratings. Unloading materials supplied at site and storing it in safe place provided in the site. (Make: ACO/SGS)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of trap with grating	each	1.00000	500.00	500.00

0123	Mason (brick layer) 1st class	Day	0.06300	487.00	30.68
9999	Sundries	L.S	10.00000	1.73	17.30

TOTAL					547.98
cost for one each					547.98
	say				547.98

	Add Water Charges @ 1.0%				5.47
	Add CPOH @ 15.0%				83.01
	Cost index 31.06 %				17.30
	Total with Cost index				653.79
	Say				653.79

7 Specification Code: od15629/2019_2020

od15629/2019_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 Kgf/cm2 - External work - Exposed on wall

Details of cost for 10 metre

MATERIALS:

Code	Description	Unit	Quantity	Rate	Amount
MR	PVC pipe 63 mm outer dia . 10kgf/cm2 (30% added for wastage and clamps etc)	metre	13.00000	136.47	1774.11
9999	Sundries Carriage of materials	L.S	22.53000	1.73	38.98
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
TOTAL					2321.37

	cost for 10.0 metre				2321.37
	cost for one metre				232.14
	say				232.14

	Add Water Charges @ 1.0%				2.32
	Add CPOH @ 15.0%				35.16
	Cost index 31.06 %				19.74
	Total with Cost index				289.38
	Say				289.38

8 Specification Code: od15587/2019_2020

od15587/2019_2020 :Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 10Kgf/cm2

Details of cost for 10.00 meter

MATERIALS:

Code	Description	Unit	Quantity	Rate	Amount
MR	PVC pipe 63 mm outer dia. 10 kgf/cm2 Add 5% for fittings and wastage etc.	metre	10.50000	136.47	1432.94
0116	Fitter(grade1) 	Day	0.25000	487.00	121.75
0114	Beldar Trenching and refilling etc.	Day	0.66000	368.00	242.88
0114	Beldar 	Day	0.66000	368.00	242.88
0115	Coolie 	Day	0.66000	368.00	242.88
TOTAL					2283.33
	cost for 10.0 metre				2283.33
	cost for one metre				228.33

	say				228.33
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	Add Water Charges @ 1.0%				2.28
	Add CPOH @ 15.0%				34.59
	Cost index 31.06 %				30.67
	Total with Cost index				295.88
	Say				295.88

MAIN BUILDING ELECTRICAL WORKS					
1 Specification Code: od15602/2019_2020					

od15602/2019_2020 : Supply of 16 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
MR808	16 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	155.00	155.00
	Add Cartage@1.00				1.55
	total				156.55
TOTAL					156.55
Add CPOH @ 15%					23.48
cost for one metre					180.0
Say					180.0
Cost index 31.06 %					.00
Total with Cost index					180.00

Say	180.00
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2 Specification Code: od15605/2019_2020

od15605/2019_2020 : Supply of 35 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
MR795	35 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	240.00	240.00
	Add Cartage@1.00				2.40
	total				242.40
TOTAL					242.4
Add CPOH @ 15%					36.36
cost for one metre					279.0
Say					279.0
Cost index 31.06 %					.00
Total with Cost index					279.00
Say					279.00

3 Specification Code: od15606/2019_2020

od15606/2019_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	205.00	205.00
	Add Cartage@1.00				2.05
	total				207.05
TOTAL					207.05
Add CPOH @ 15%					31.06
cost for one metre					238.0
Say					238.0
Cost index 31.06 %					.00
Total with Cost index					238.00
Say					238.00

4 Specification Code: od15568/2019_2020

od15568/2019_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
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				TOTAL	121.2
				Add CPOH @ 15%	18.18
				cost for one metre	139.0
				Say	139.0
				Cost index 31.06 %	.00
				Total with Cost index	139.00
				Say	139.00

5 Specification Code: od68393/2019_2020

SITC of SSB 1 (Koyilandy)
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: - 125A TPN Isolator – 1 No.
Outgoing: - 32A 4P MCB – 6 No., 40A 4P MCB – 2 No

 50A 4P MCB – 1 No

Code	Description	Unit	Quantity	Rate	Amount
MR1341	40 A to 63 A, TPN MCB (C curve), 10 kA breaking capacity	each	3.00000	1669.49	5008.47
	Add Cartage@1.00				50.08

		total				5058.55
MR	125 A 4P Isolator, Make: ABB	no	1.00000	6000.00		6000.00
	Add Cartage@1.00					60.00
		total				6060.00
MR1738	Three phase Voltmeter accuracy class 0.5	each	1.00000	2344.07		2344.07
	Add Cartage@1.00					23.44
		total				2367.51
MR1740	Three phase Ammeter accuracy class 0.5	each	1.00000	2527.12		2527.12
	Add Cartage@1.00					25.27
		total				2552.39
MR1776	Voltmeter selector switch 6 A 3 Pole	each	1.00000	79.66		79.66
	Add Cartage@1.00					0.80
		total				80.46
MR1775	Ammeter selector switch 6A 3 Pole	each	1.00000	99.15		99.15
	Add Cartage@1.00					0.99
		total				100.14
MR1827	120/5 A, 5 VA, accuracy class 0.5, Resin Cast Metering CT	each	3.00000	634.75		1904.25
	Add Cartage@1.00					19.04
		total				1923.29
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	26.0000 0	7.03		182.78
	Add Cartage@1.00					1.83
	Add Wastage@5.00					9.14
		total				193.75

MR732	25 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable	metre	3.60000	177.12	637.63
	Add Cartage@1.00				6.38
	Add Wastage@5.00				31.88
	total				675.89
MR	16 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable (Make: finolex)	metre	10.80000	125.00	1350.00
	Add Cartage@1.00				13.50
	Add Wastage@5.00				67.50
	total				1431.00
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	10.80000	102.36	1105.49
	Add Cartage@1.00				11.05
	Add Wastage@5.00				55.27
	total				1171.82
Total Cost of Materials					21614.8
2.10.5	Rate as per item number 2.10.5 of SH: MCCB, MCB & DBS	each	6.00000	774.78	4648.68
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	690.00000	5.22	3601.80
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.69300	2566.96	1778.90
90.14.3.1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	35.53500	40.00	1421.40
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	1566.00000	3.00	4698.00

90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	4.80000	796.52	3823.30
1001	Wireman	Day	1.00000	447.00	447.00
1007	Khallasi	Day	1.00000	368.00	368.00
90.14.1. 2	Rate as per item number 90.14.1.2 of SH: OD Electrical	sqm	14.9385 0	2014.78	30097.79

TOTAL		27127.8
Add CPOH @ 15%		10874.95
cost for one no		83375.0
Say		83375.0
Cost index 31.06 %		3559.17
Total with Cost index		86934.17
Say		86934.17

6 Specification Code: od15627/2019_2020

od15627/2019
_2020 :

Supply, installation , testing and commissioning of exhaust fans of size up to 450mm in the existing opening, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the exhaust fan.
300/305 mm sweep Light Duty Exhaust fan in metal frame 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
MR1198	300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C	each	1.00000	1495.00	1495.00
	Add Cartage@1.00				14.95
	total				1509.95

Total Cost of Materials					1522.07
1001	Wireman	Day	0.33000	447.00	147.51
MR719	Wireman Helper	Day	0.33000	600.00	198.00

TOTAL					1867.58
Add CPOH @ 15%					280.14
cost for one each					2148.0
Say					2148.0
Cost index 31.06 %					57.15
Total with Cost index					2205.15
Say					2205.15

7 Specification Code: od15628/2019_2020

od15628/2019 Supply and laying of one number of 10 SWG Copper wire on wall/ surface/
_2020 : recessed conduit etc.

Code	Description	Unit	Quantity	Rate	Amount
MR2043	Copper wire 0 to 14 SWG	kg	2.20500	582.00	1283.31
	Add Cartage@1.00				12.83
	Add Wastage@5.00				64.17
	total				1360.31
Total Cost of Materials					1360.31
1001	Wireman	Day	0.15000	447.00	67.05
1085	Solder jointing	each	2.00000	12.00	24.00
TOTAL					1451.36
Add CPOH @ 15%					217.70
cost for 30.0 metre					1669.06
cost for one metre					56.0

	Say	56.0
	Cost index	31.06 %
		1.24
	Total with Cost index	57.24
	Say	57.24

8 Specification Code: od68396/2019_2020

od68396/2019 SITC of 10KVA UPS with 42Ah SMF battery for 1 hour back-up complete with all
_2020 : accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	10KVA EATON 9145 240V DC online UPS.	each	1.00000	101800.00	101800.00
	Add Cartage@1.00				1018.00
	total				102818.00
MR	42Ah SMF battery for 1 hour back-up	each	40.00000	3550.00	142000.00
	Add Cartage@1.00				1420.00
	total				143420.00
MR	Battery racks and links	set	1.00000	6200.00	6200.00
	Add Cartage@1.00				62.00
	total				6262.00
Total Cost of Materials					252500.0
1001	Wireman	Day	2.00000	447.00	894.00
1007	Khallas	Day	2.00000	368.00	736.00
TOTAL					254130.0
Add CPOH @ 15%					38119.50
cost for one each					292250.0
Say					292250.0

Cost index 31.06 %	582.38
Total with Cost index	292832.38
Say	292832.38

9 Specification Code: od68521/2019_2020

od68521/2019 Supply, installation, testing and commissioning of 5W LED wall light working on
_2020 : 230V, 50 Hz AC, including giving connections as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	5W LED lamp, working on 240V, 50Hz AC. (Make: Havells, Model no: LHLDEUEEMK8R005)	each	1.00000	110.17	110.17
	Add Cartage@1.00				1.10
	total				111.27
Total Cost of Materials					111.27
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					111.27
Add CPOH @ 15%					37.17
cost for one each					285.0
Say					285.0
Cost index 31.06 %					32.92
Total with Cost index					317.92
Say					317.92

10 Specification Code: od68522/2019_2020

od68522/2019 SITC of Rust Resistant and Weather-Proof Bulk head light fixture with 9W LED
_2020 : lamp, IP 65 protection complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	9W LED lamp, working on 230V, 50Hz AC. (Make: Havells, Model no: LHLDEUEEMC8R009)	each	1.00000	127.12	127.12
	Add Cartage@1.00				1.27
	total				128.39
MR	Rust Resistant and Weather-Proof Bulk head light fixture IP 65 protection complete with all other accessories as required. (Make: Havells, model no.LHKL01160099)	each	1.00000	322.03	322.03
	Add Cartage@1.00				3.22
	total				325.25
Other Engineering Organisations Total Cost of Materials					453.64
90.3.13	Rate as per item number 90.3.13 of SH: OD Electrical	each	1.00000	71.30	71.30
TOTAL					453.64
Add CPOH @ 15%					78.74
cost for one no					604.0
Say					604.0
Cost index 31.06 %					9.63
Total with Cost index					613.63
Say					613.63

FRONT GATE WITH SECURITY CABIN CIVIL WORKS

1 Specification Code: od15597/2019_2020

od15597/2019_2020 :Supplying 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	Supply	sqm	1.00000	7085.00	7085.00
MR	Cartage	sqm	1.00000	200.00	200.00
TOTAL					7285.00
cost for one sqm of door area					7285.00
	say				7285.00

	Add Water Charges @ 1.0%				72.84
	Add CPOH @ 15.0%				1103.67
	Cost index 31.06 %				0.00
	Total with Cost index				8461.53
	Say				8461.53

FRONT GATE WITH SECURITY CABIN M and E WORKS

1 Specification Code: od15528/2019_2020

od15528/2019_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	3.51000	582.00	2042.82
	Add Cartage@1.00				20.43
	total				2063.25
Total Cost of Materials					2063.25
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		2557.13
Add CPOH @ 15%		383.57
cost for 30.0 metre		2940.70
cost for one metre		98.0
Say		98.0
Cost index 31.06 %		5.90
Total with Cost index		103.90
Say		103.90

2 Specification Code: od68401/2019_2020

od68401/2019 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with
_2020 : all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	LED 3W Spike light, IP65 protection, working on 240V, 50Hz AC (Make: LUKER, Model no. LSSPK3W)	each	1.00000	932.20	932.20
	Add Cartage@1.00				9.32
	total				941.52
Total Cost of Materials					941.52
90.3.15	Rate as per item number 90.3.15 of SH: OD Electrical	each	1.00000	74.78	74.78
TOTAL					941.52
Add CPOH @ 15%					152.44
cost for one no					1169.0

Say	1169.0
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Cost index 31.06 %	11.49
Total with Cost index	1180.49
Say	1180.49

3 Specification Code: od68402/2019_2020
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od68402/2019_2020 : SITC Of 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	Supply and fixing of Weather proof sintex box (Model GSJB6535)	each	1.00000	5606.00	5606.00
	Add Cartage@1.00				56.06
	total				5662.06
MR1885	Red, Green, Black, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut out dia	each	1.00000	44.07	44.07
	Add Cartage@1.00				0.44
	total				44.51
MR1601	12 A, 3 pole power Contactors (For 7.5 HP motor), AC 3 rating at 415 V, with AC Coil, Auxiliary contacts, 1 NO/INC	each	1.00000	538.14	538.14
	Add Cartage@1.00				5.38
	total				543.52
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	5.00000	7.03	35.15
	Add Cartage@1.00				0.35

	Add Wastage@5.00				1.76
		total			37.26
Total Cost of Materials					6287.35
2.14.1	Rate as per item number 2.14.1 of SH: MCCB, MCB & DBS	each	1.00000	1434.78	1434.78
2.12.1	Rate as per item number 2.12.1 of SH: MCCB, MCB & DBS	each	1.00000	193.04	193.04
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	5.00000	150.43	752.15
2.3.2	Rate as per item number 2.3.2 of SH: MCCB, MCB & DBS	each	1.00000	922.61	922.61
15.4.1	Rate as per item number 15.4.1 of SH: Lighting Control	no	1.00000	2231.30	2231.30
MR	Labour charges	each	1.00000	2823.03	2823.03
1001	Wireman	Day	0.50000	447.00	223.50
1007	Khallasi	Day	0.50000	368.00	184.00

Other Engineering Organisations

TOTAL				9517.88
Add CPOH @ 15%				2257.76
cost for one each				17310.0
Say				17310.0
Cost index 31.06 %				2122.33
Total with Cost index				19432.33
Say				19432.33

4 Specification Code: od68403/2019_2020

od68403/2019 SITC of weather proof pillar light fittings with 9W LED lamp, IP65 for outdoor
_2020 : purpose pre wired and complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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MR	Weather proof pillar light fitting, IP65 for outdoor purpose (Make: Havells, model no: LHDC11126099)	each	1.00000	995.76	995.76
	Add Cartage@1.00				9.96
	total				1005.72
MR	9W LED lamp working on 230V, 50Hz AC (Make: Havells, Model no. LHLDEUEEML8R009)	each	1.00000	127.12	127.12
	Add Cartage@1.00				1.27
	total				128.39
Total Cost of Materials					1134.11
90.3.15	Rate as per item number 90.3.15 of SH: OD Electrical	each	1.00000	74.78	74.78

TOTAL	1134.11
Add CPOH @ 15%	181.33
cost for one no	1390.0
Say	1390.0
Cost index 31.06 %	11.18
Total with Cost index	1401.18
Say	1401.18

5 Specification Code: od68404/2019_2020

od68404/2019 SITC of 20/25W LED Surface mounting down light, working on 230V, 50Hz AC, _2020 : complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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MR	20/25W LED Surface mounting down light working on 230V, 50Hz AC (Make:Havells, Model no. LHEAABP7IL1W024)	each	1.00000	2004.24	2004.24
	Add Cartage@1.00				20.04
	total				2024.28
Total Cost of Materials					2024.28
90.3.11	Rate as per item number 90.3.11 of SH: OD Electrical	each	1.00000	73.04	73.04

TOTAL	2024.28
Add CPOH @ 15%	314.60
cost for one no	2412.0
Say	2412.0
Cost index 31.06 %	10.87
Total with Cost index	2422.87
Other Engineering Organisations Say	2422.87

PRICE

6 Specification Code: od68405/2019_2020

od68405/2019 SITC of 3W LED Recessed Spot light pre wired, working on 230V, 50Hz AC, _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	372.88	372.88
	Add Cartage@1.00				3.73
	total				376.61
Total Cost of Materials					376.61

90.3.12	Rate as per item number 90.3.12 of SH: OD Electrical	each	1.00000	53.04	53.04
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				TOTAL	376.61
				Add CPOH @ 15%	64.45
				cost for one no	494.0
				Say	494.0
				Cost index 31.06 %	8.08
				Total with Cost index	502.08
				Say	502.08

7 Specification Code: od68394/2019_2020

od68394/2019 Supply, installation, testing and commissioning of 5W LED wall light working on
_2020 : 230V, 50 Hz AC, including giving connections as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	5W LED lamp, working on 240V, 50Hz AC. (Make: Havells, Model no: LHLDEUEEMK8R005)	each	1.00000	110.17	110.17
	Add Cartage@1.00				1.10
	total				111.27
Total Cost of Materials					111.27
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					111.27
Add CPOH @ 15%					37.17
cost for one each					285.0
Say					285.0

Cost index 31.06 %	32.92
Total with Cost index	317.92
Say	317.92

8 Specification Code: od15556/2019_2020

od15556/2019 Supply, installation, testing and commissioning of LED 3W Spike light, IP65 with
_2020 : all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	LED 3W Spike light, IP65	no	1.00000	540.00	540.00
Total Cost of Materials					540.0
90.3.13	Rate as per item number 90.3.13 of SH: OD Electrical	each	1.00000	83.00	83.00
TOTAL					540.0
Add CPOH @ 15%					93.45
cost for one no					704.0
Say					704.0
Cost index 31.06 %					25.78
Total with Cost index					729.78
Say					729.78

9 Specification Code: od15568/2019_2020

od15568/2019 Supply of 10 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium
_2020 : 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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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 31.06 %	.00
Total with Cost index	139.00
Say	139.00

Other Engineering Organisations

10 Specification Code: od15607/2019_2020

PRICE

Supply, installation, testing and commissioning of Wall fan of 300mm sweep dia od15607/2019 on wall, fixing necessary anchor bolts / bolt and nuts etc., as required including
 _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	1550.00	1550.00
	Add Cartage@1.00				15.50
	total				1565.50

Total Cost of Materials					1577.62
1001	Wireman	Day	0.33000	447.00	147.51
MR719	Wireman Helper	Day	0.33000	600.00	198.00

TOTAL					1923.13
Add CPOH @ 15%					288.47
cost for one each					2212.0
Say					2212.0
Cost index 31.06 %					57.15
Total with Cost index					2269.15
Say					2269.15

11 Specification Code: od15609/2019_2020

od15609/2019_2020 : Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 4 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 31.06 %					31.99
Total with Cost index					2103.99

Say	2103.99
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ROADS AND ANCILLARY WORKS
1 Specification Code: od15533/2019_2020

<p>od15533/2019_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)</p> <p>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 52x2.25+56x1.12= 180kg</p>

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 =2x0.18=0.36q	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 Coal tar 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%				1.46
	Add CPOH @ 15.0%				22.12
	Cost index 31.06 %				52.68
	Total with Cost index				222.31
	Say				222.31

2 Specification Code: od15547/2019_2020

od15547/2019_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
TOTAL					5122.33
	cost for 100.0 sqm				5122.33

	cost for one sqm				51.22
	say				51.22

	Add Water Charges @ 1.0%				0.51
	Add CPOH @ 15.0%				7.75
	Cost index 31.06 %				18.47
	Total with Cost index				77.97
	Say				77.97

3 Specification Code: od15590/2019_2020

od15590/2019_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
TOTAL					1688.21
	cost for 10.0 sqm				1688.21

	cost for one sqm				168.82
	say				168.82

	Add Water Charges @ 1.0%				1.68
	Add CPOH @ 15.0%				25.57
	Cost index 31.06 %				60.90
	Total with Cost index				256.99
	Say				256.99

4 Specification Code: od15598/2019_2020

od15598/2019_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

Other Engineering Organisations

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
TOTAL					2332.84
	cost for 40.0 sqm				2332.84
	cost for one sqm				58.32
	say				58.32

	Add Water Charges @ 1.0%				0.58
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	Add CPOH @ 15.0%				8.83
	Cost index 31.06 %				21.03
	Total with Cost index				88.78
	Say				88.78

5 Specification Code: od15599/2019_2020

od15599/2019_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%				1.86
	Add CPOH @ 15.0%				28.18
	Cost index 31.06 %				5.79
	Total with Cost index				221.92
	Say				221.92

6 Specification Code: od69782/2019_2020

od69782/2019_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
2.6.1	Rate as per item number 2.6.1 of SH: Earth Work	cum	3.09000	108.44	335.07
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	694.65
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	87.37
1221	20 mm dia holding down bolts	quintal	0.00310	5500.00	17.05
MR51	PVC pipe 63 mm outer dia. 4 kgf/cm ²	metre	0.46000	83.00	38.18
9988	Carriage and sundries	L.S	250.00000	1.73	432.50
TOTAL					6679.57
Other Engineering Organisa cost for one each					6679.57
say					6679.57

	Add Water Charges @ 1.0%				66.79
	Add CPOH @ 15.0%				1011.95
	Cost index 31.06 %				2395.96
	Total with Cost index				10154.28
	Say				10154.28

7 Specification Code: od15613/2019_2020

od15613/2019_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%				35.12
	Add CPOH @ 15.0%				532.13
	Cost index 31.06 %				1267.16
	Total with Cost index				5346.88
	Say				5346.88

EXTERNAL WATER SUPPLY

1 Specification Code: od15554/2019_2020

od15554/2019_2020 :Supply and install Zoloto or approved equivalent 50mm full bore forged brass ball valve including all necessary fittings.

Rate for each item

Code	Description	Unit	Quantity	Rate	Amount
MR	supply of Zoloto 50mm full bore forged brass ball valve	each	1.00000	2263.00	2263.00
MR	50mm male brass threaded adaptor	each	2.00000	666.70	1333.40
9988	Carriage and sundries	L.S	20.80000	1.73	35.98
TOTAL					3632.38
cost for one each					3632.38
	say				3632.38

	Add Water Charges @ 1.0%				36.32
	Add CPOH @ 15.0%				550.30
	Cost index 31.06 %				12.98
	Total with Cost index				4231.99
	Say				4231.99

Other Engineering Organisations

2 Specification Code: od15502/2019_2020

PRICE

od15502/2019_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
cost for one cum					3623.81
	say				3623.81

	Add Water Charges @ 1.0%				36.23
	Add CPOH @ 15.0%				549.00

	Cost index 31.06 %				1307.33
	Total with Cost index				5516.39
	Say				5516.39

3 Specification Code: od15580/2019_2020

od15580/2019_2020 :Supply installation testing and commissioning of water treatment plant 5000 LPH capacity with Sand filter,Carbon filter, Iron removal filter,Float switches 4 nos,Filter feed pump (5000 lph,30-35 m head),chemical dosing pump((0-10) lph with all accessories complete as per the direction of engineer in charge
ONE ITEM

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply installation testing and commissioning	each	1.00000	254238.00	254238.00
				TOTAL	254238.00
				Other Engineering Organisations cost for one each	254238.00
				say	254238.00

	Add Water Charges @ 1.0%				2542.38
	Add CPOH @ 15.0%				38517.05
	Cost index 31.06 %				0.00
	Total with Cost index				295297.4 4
	Say				295297.4 4

4 Specification Code: od15584/2019_2020

od15584/2019_2020 :Supply ,Installation testing and commissioning of Transfer pump 5HP, 3 phase ,20m head including accessories.

QTY FOR ONE ITEM

Code	Description	Unit	Quantity	Rate	Amount
MR	SUPPLY PUMP AND ACCESSORIES	each	1.00000	32373.00	32373.00
0116	Fitter(grade1)	Day	0.75000	487.00	365.25
0160	Technician	Day	0.75000	775.00	581.25
9999	Sundries	L.S	100.00000	1.73	173.00
TOTAL					33492.50
cost for one each					33492.50
	say				33492.50

	Add Water Charges @ 1.0%				334.92
	Add CPOH @ 15.0%				5074.11
	Cost index 31.06 %				403.87
	Total with Cost index				39305.41
	Other Engineering Organisations Say				39305.41

5 Specification Code: od15587/2019_2020

od15587/2019_2020 :Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 10Kgf/cm2

Details of cost for 10.00 meter

MATERIALS:

Code	Description	Unit	Quantity	Rate	Amount
MR	PVC pipe 63 mm outer dia. 10 kgf/cm2 Add 5% for fittings and wastage etc.	metre	10.50000	136.47	1432.94
0116	Fitter(grade1) 	Day	0.25000	487.00	121.75
0114	Beldar Trenching and refilling etc.	Day	0.66000	368.00	242.88

0114	Beldar 	Day	0.66000	368.00	242.88
0115	Coolie 	Day	0.66000	368.00	242.88

TOTAL					2283.33
	cost for 10.0 metre				2283.33
	cost for one metre				228.33
	say				228.33

	Add Water Charges @ 1.0%				2.28
	Add CPOH @ 15.0%				34.59
	Cost index 31.06 %				30.67
	Total with Cost index				295.88
	Say				295.88

EXTERNAL SEWERAGE SYSTEM	
1 Specification Code: od15502/2019_2020	

od15502/2019_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 number4.1.10of SH:Concrete work 	cum	1.00000	3623.81	3623.81
TOTAL					3623.81
cost for one cum					3623.81
	say				3623.81

	Add Water Charges @ 1.0%				36.23
	Add CPOH @ 15.0%				549.00

	Cost index 31.06 %				1307.33
	Total with Cost index				5516.39
	Say				5516.39

RAIN WATER DRAINAGE

1 Specification Code: od15502/2019_2020

od15502/2019_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
cost for one cum					3623.81
	say				3623.81

	Add Water Charges @ 1.0%				36.23
	Add CPOH @ 15.0%				549.00
	Cost index 31.06 %				1307.33
	Total with Cost index				5516.39
	Say				5516.39

2 Specification Code: od15509/2019_2020

od15509/2019_2020 :Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone

aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:
Inside size 45x45 cm and 60 cm deep including C.I. cover with frame (medium duty) 300 mmdia internal dimensions, :With Sewer bricks conforming to IS : 4885

Details of cost for one manhole

Code	Description	Unit	Quantity	Rate	Amount
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	0.29300	3855.49	1129.66
6.36.1	Rate as per item number 6.36.1 of SH: Brick Work	cum	0.31300	4392.60	1374.88
4.1.3	Rate as per item number 4.1.3 of SH: Concrete work	cum	0.05000	4719.72	235.99
13.9.1	Rate as per item number 13.9.1 of SH: Finishing	sqm	0.13000	202.07	26.27
5.3	Rate as per item number 5.3 of SH: Reinforced Cement Concrete	cum	0.11100	6363.15	706.31
0115	Coolie Mild steel reinforcement for slab: 0.22 cum @ 48.06 kg/cum = 10.57 kg	Day	-0.21000	368.00	-77.28
5.22.1	Rate as per item number 5.22.1 of SH: Reinforced Cement Concrete Reinforced cement concrete work Form work = $0.90 \times 0.80 = 0.72$ sqm = 0.442 sqm say 0.44 sqm Less cover = $0.61 \times 0.455m = (-) 0.278$ sqm	kg	5.33000	47.61	253.77
5.9.3	Rate as per item number 5.9.3 of SH: Reinforced Cement Concrete LABOUR: Extra labour for making channel:	sqm	0.25000	363.58	90.90
0123	Mason (brick layer) 1st class 	Day	0.06000	487.00	29.22
0124	Mason (brick layer)2nd class 	Day	0.06000	448.00	26.88
1352	C.I. Cover and frame 300X300 mm inside	each	1.00000	300.00	300.00
9977	Carriage of C.I. cover & frame	L.S	6.76000	1.73	11.69
9999	Sundries Painting of C.I cover & frame with coal tar	L.S	6.76000	1.73	11.69
9999	Sundries 	L.S	13.52000	1.73	23.39
TOTAL					4143.37
cost for one each					4143.37
	say				4143.37

	Add Water Charges @ 1.0%				41.43
	Add CPOH @ 15.0%				627.72
	Cost index 31.06 %				1494.77

	Total with Cost index				6307.29
	Say				6307.29

3 Specification Code: od15517/2019_2020

od15517/2019_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	37966.00	37966.00
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
Other Engineering Organisations TOTAL					41710.42
cost for one each					41710.42
	say				41710.42

	Add Water Charges @ 1.0%				417.10
	Add CPOH @ 15.0%				6319.12
	Cost index 31.06 %				1350.84
	Total with Cost index				49797.50
	Say				49797.50

4 Specification Code: od15521/2019_2020

od15521/2019_2020 :Supply all material and construct RCC rain water filtration tank cum collection tank of overall size 5.1x2.65x1.60m 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	17.04000	143.26	2441.15
2.25	Rate as per item number 2.25 of SH: Earth Work	cum	17.04000	108.27	1844.92
4.1.8	Rate as per item number 4.1.8 of SH: Concrete work	cum	1.59300	3855.49	6141.80
5.9.1	Rate as per item number 5.9.1 of SH: Reinforced Cement Concrete	sqm	1.67000	166.98	278.86
5.9.2	Rate as per item number 5.9.2 of SH: Reinforced Cement Concrete	sqm	51.80000	325.96	16884.73
5.9.3	Rate as per item number 5.9.3 of SH: Reinforced Cement Concrete	sqm	10.13000	363.58	3683.07
5.22.6	Rate as per item number 5.22.6 of SH: Reinforced Cement Concrete	kilogram	701.00000	48.73	34159.73
5.1.2	Rate as per item number 5.1.2 of SH: Reinforced Cement Concrete	cum	8.99000	5351.14	48106.75
22.4.1	Rate as per item number 22.4.1 of SH: Water Proofing	metre	16.45000	218.81	3599.42
13.7.1	Rate as per item number 13.7.1 of SH: Finishing	sqm	37.13000	195.26	7250.00
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/cm ²	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
MR	Supply and install Ductile iron medium duty manhole cover with frame	each	2.00000	4153.00	8306.00
TOTAL					142566.15

					cost for one each	142566.14
	say					142566.14

	Add Water Charges @ 1.0%					1425.66
	Add CPOH @ 15.0%					21598.77
	Cost index 31.06 %					48013.85
	Total with Cost index					213604.4 2
	Say					213604.4 2

ELV SYSTEM
1 Specification Code: od15541/2019_2020

od15541/2019
_2020 : Supply, installation, testing and commissioning of LAN socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	no	1.00000	194.70	194.70
Total Cost of Materials					194.7
MR	Fixing charges per unit	no	1.00000	64.90	64.90
TOTAL					259.6
cost for one no					260.0
Say					260.0
Cost index 31.06 %					.00
Total with Cost index					260.00
Say					260.00

2 Specification Code: od15548/2019_2020

od15548/2019 Supply and installation of GI box for modular switch installation including base
_2020 : plate and front plate 1/2 M

Code	Description	Unit	Quantity	Rate	Amount
MR	GI box for modular switch installation including base plate and front plate 1/2 M	no	1.00000	56.64	56.64
MR	Installation charge per unit	no	1.00000	177.00	177.00
TOTAL					233.64
cost for one no					234.0
Say					234.0
Cost index 31.06 %					.00
Total with Cost index					234.00
Say					234.00

3 Specification Code: od16275/2019_2020

Supply, installation, testing and commissioning of Bio Metric Finger Print scan
od16275/2019 attendance system with LCD/LED display & keypad & TCPIP LAN, USB
_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)	no	1.00000	5750.00	5750.00
MR	Installation charges	no	1.00000	1850.00	1850.00
TOTAL					7600.0
cost for one no					7600.0

Say	7600.0
Cost index 31.06 %	.00
Total with Cost index	7600.00
Say	7600.00

4 Specification Code: od16018/2019_2020

od16018/2019 Supply, installation, testing and commissioning of 24 Port 10/100/1000 Mbps PoE
_2020 : Switch.

Code	Description	Unit	Quantity	Rate	Amount
MR	24 Port 10/100/1000 Mbps PoE Switch.	no	1.00000	25625.0 0	25625.00
Total Cost of Materials					25625.0
MR	Fixing charge	no	1.00000	1180.00	1180.00
Other Engineering Organisations TOTAL					26805.0
cost for one no					26805.0
Say					26805.0
Cost index 31.06 %					.00
Total with Cost index					26805.00
Say					26805.00

5 Specification Code: od15560/2019_2020

od15560/2019 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel
_2020 : Shuttered.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 I/O for Patch Panel Shuttered.	no	1.00000	194.70	194.70

Total Cost of Materials					194.7
MR	Fixing charges	no	1.00000	64.90	64.90

TOTAL					259.6
cost for one no					260.0
Say					260.0
Cost index 31.06 %					.00
Total with Cost index					260.00
Say					260.00

6 Specification Code: od15569/2019_2020

od15569/2019 Supply, Installation, testing and commissioning of Cat6 24 Port un loaded Patch
_2020 : Panel.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 24 Port un loaded Patch Panel.	no	1.00000	1593.00	1593.00
Total Cost of Materials					1593.0
MR	Labour charges per unit	no	1.00000	295.00	295.00
TOTAL					1888.0
cost for one no					1888.0
Say					1888.0
Cost index 31.06 %					.00
Total with Cost index					1888.00
Say					1888.00

7 Specification Code: od16499/2019_2020

od16499/2019 Supply and drawing of CAT6 4 pair cable including all necessary connector.
_2020 :

Code	Description	Unit	Quantity	Rate	Amount
MR	CAT6 4 pair cable including all necessary connector.	metre	1.00000	21.00	21.00
Total Cost of Materials					21.0
MR	Fixing charges	metre	1.00000	18.00	18.00
TOTAL					39.0
cost for one metre					39.0
Say					39.0
Cost index 31.06 %					.00
Total with Cost index					39.00
Say					39.00

8 Specification Code: od15497/2019_2020

od15497/2019_2020 : Supply, Installation, Testing and commissioning Of 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

Code	Description	Unit	Quantity	Rate	Amount
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 31.06 %					.00

Total with Cost index	7611.00
Say	7611.00

9 Specification Code: od16038/2019_2020

od16038/2019_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	no	1.00000	7375.00	7375.00
Total Cost of Materials					7375.0
MR	Fixing charges	no	1.00000	1250.00	1250.00
TOTAL					8625.0
cost for one no					8625.0
Say					8625.0
Cost index 31.06 %					.00
Total with Cost index					8625.00
Say					8625.00

10 Specification Code: od16168/2019_2020

od16168/2019_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
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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.	no	1.00000	9850.00	9850.00
Total Cost of Materials					9850.0
MR	Wireman	no	1.00000	413.00	413.00

TOTAL					10263.0
cost for one no					10263.0
Say					10263.0
Cost index 31.06 %					.00
Total with Cost index					10263.00
Say					10263.00

11 Specification Code: od16178/2019_2020

od16178/2019_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.	no	1.00000	5650.00	5650.00
Total Cost of Materials					5650.0
MR	Wireman	no	1.00000	295.00	295.00
TOTAL					5945.0
cost for one no					5945.0
Say					5945.0
Cost index 31.06 %					.00

Total with Cost index	5945.00
Say	5945.00

12 Specification Code: od69120/2019_2020

od69120/2019 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour
_2020 : monitor complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR	19" Flat Screen VGA colour monitor	each	1.00000	7500.00	7500.00
	Add Cartage@1.00				75.00
	total				7575.00
Total Cost of Materials					7575.0
MR701	Electrician	Day	0.66700	750.00	500.25
TOTAL					8075.25
Add CPOH @ 15%					1211.29
cost for one each					9287.0
Say					9287.0
Cost index 31.06 %					.00
Total with Cost index					9287.00
Say					9287.00

13 Specification Code: od15594/2019_2020

SITC of FLOOR RACK 19" 27U 600 mmx 600mm depth with Front and back
od15594/2019 perforated Steel Door, Side Openable Panels, Castors, Heavy Duty Shelf - 3 Nos,
_2020 : Vertical PDU 6 x5Amps - 1 No, Fan Housing Unit with 2 Fans, Mounting
Hardware Screws.

Code	Description	Unit	Quantity	Rate	Amount
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MR	Floor rack 19"27U 600 mm x 600 mm depth with front and back perforated steel door, side openable panels, castors, heavy duty shelf-3 nos, vertical PDU 6X5Amps - 1 No, Fan Housing unit with 2 fans, mounting hardware screws.	no	1.00000	26550.0 0	26550.00
Total Cost of Materials					26550.0
MR	Labour charges per unit	no	1.00000	4130.00	4130.00

TOTAL		30680.0
cost for one no		30680.0
Say		30680.0
Cost index 31.06 %		.00
Total with Cost index		30680.00
Say		30680.00

14 Specification Code: od15526/2019_2020

od15526/2019 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC
_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	56.64	56.64
Total Cost of Materials					56.64
MR	Labour charges per meter	no	1.00000	21.24	21.24
TOTAL					77.88
cost for one no					78.0
Say					78.0
Cost index 31.06 %					.00

Total with Cost index	78.00
Say	78.00

15 Specification Code: od15531/2019_2020

od15531/2019
_2020 : Supply, Installation, Testing and commissioning of XLR cables and connectors

Code	Description	Unit	Quantity	Rate	Amount
MR	XLR cables and connectors	no	1.00000	2212.50	2212.50
Total Cost of Materials					2212.5
MR	Labour charges per unit	no	1.00000	177.00	177.00
TOTAL					2389.5
cost for one no					2390.0
Say					2390.0
Cost index 31.06 %					.00
Total with Cost index					2390.00
Say					2390.00

16 Specification Code: od16184/2019_2020

od16184/2019
_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	no	1.00000	1100.00	1100.00

					Total Cost of Materials	1100.0
MR	Wireman	no	1.00000	250.00		250.00

					TOTAL	1350.0
					cost for one no	1350.0
					Say	1350.0
					Cost index 31.06 %	.00
					Total with Cost index	1350.00
					Say	1350.00

17 Specification Code: od15537/2019_2020

Supply, Installation, Testing and commissioning of Distribution box for PA od15537/2019 distribution made out of 16 SWG CRCA sheet with lockable door arrangement _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.	no	1.00000	684.40	684.40	
					Total Cost of Materials	684.4
MR	Labour charges per unit	no	1.00000	295.00	295.00	
					TOTAL	979.4
					cost for one no	979.0
					Say	979.0
					Cost index 31.06 %	.00

Total with Cost index	979.00
Say	979.00

18 Specification Code: od16206/2019_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- od16206/2019 MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED _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	350W RMS MIXER AMPLIFIER	no	1.00000	25375.00	25375.00
Total Cost of Materials					25375.0
MR	Electrician	no	1.00000	2950.00	2950.00
TOTAL					28325.0
cost for one no					28325.0
Say					28325.0
Cost index 31.06 %					.00
Total with Cost index					28325.00
Say					28325.00

19 Specification Code: od16183/2019_2020

od16183/2019 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board. _2020 :

Code	Description	Unit	Quantity	Rate	Amount
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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 31.06 %				.00
Total with Cost index				34000.00
Say				34000.00

20 Specification Code: od16185/2019_2020

od16185/2019 Supply, installation, testing, and commissioning of LT Projector and roof mount for _2020 : 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 31.06 %					.00
Total with Cost index					24590.00
Say					24590.00

21 Specification Code: od16221/2019_2020

od16221/2019 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE
_2020 : Switch.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.	no	1.00000	13220.35	13220.35
Total Cost of Materials					13220.35
MR	Electrician	no	1.00000	1000.00	1000.00
TOTAL					14220.35
cost for one no					14220.0
Say					14220.0
Cost index 31.06 %					.00
Total with Cost index					14220.00
Say					14220.00

22 Specification Code: od15601/2019_2020

od15601/2019 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch
_2020 : Panel.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 16 Port un loaded Patch Panel.	no	1.00000	800.00	800.00
Total Cost of Materials					800.0
MR	Electrician	no	0.25000	295.00	73.75
TOTAL					873.75
cost for one no					874.0

Say	874.0
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Cost index 31.06 %	.00
Total with Cost index	874.00
Say	874.00

23 Specification Code: od15603/2019_2020

od15603/2019 Supply Installation testing and Commissioning of 10/100/1000 Mbps 16 Port
_2020 : 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	no	1.00000	6490.00	6490.00
Total Cost of Materials					6490.0
MR	Wireman	no	1.00000	885.00	885.00
Other Engineering Organisations TOTAL					7375.0
cost for one no					7375.0
Say					7375.0
Cost index 31.06 %					.00
Total with Cost index					7375.00
Say					7375.00

24 Specification Code: od15608/2019_2020

od15608/2019 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port
_2020 : Network Switch to provide networks and internet on class room etc.

Code	Description	Unit	Quantity	Rate	Amount
MR	10/100/1000 Mbps 8 Port Network Switch	no	1.00000	3245.00	3245.00

					Total Cost of Materials	3245.0
MR	Wireman	no	1.00000	885.00		885.00

					TOTAL	4130.0
					cost for one no	4130.0
					Say	4130.0
					Cost index 31.06 %	.00
					Total with Cost index	4130.00
					Say	4130.00

25 Specification Code: od15572/2019_2020

od15572/2019
_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	no	1.00000	84.00	84.00	
					TOTAL	84.0
					cost for one no	84.0
					Say	84.0
					Cost index 31.06 %	.00
					Total with Cost index	84.00
					Say	84.00

26 Specification Code: od15574/2019_2020

od15574/2019
_2020 : SITC Of NVR 8 Channel for CCTV

Code	Description	Unit	Quantity	Rate	Amount
MR	SITC OF NVR 8 Channel	no	1.00000	8500.00	8500.00

TOTAL					8500.0
cost for one no					8500.0
Say					8500.0
Cost index 31.06 %					.00
Total with Cost index					8500.00
Say					8500.00

27 Specification Code: od15612/2019_2020

od15612/2019
_2020 : Supply, installation, testing and commissioning of Telephone socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	Telephone socket	no	1.00000	171.70	171.70
Total Cost of Materials					171.7
MR	Labour charges per unit	no	1.00000	88.50	88.50
TOTAL					260.2
cost for one no					260.0
Say					260.0
Cost index 31.06 %					.00
Total with Cost index					260.00
Say					260.00

28 Specification Code: od15614/2019_2020

od15614/2019 Supply, Installation, Testing & commissioning of Telephone of approved makes
_2020 : including all other accessories for connection.

Code	Description	Unit	Quantity	Rate	Amount
MR	Telephone of approved makes including all other accessories for connection.	no	1.00000	1274.40	1274.40
Total Cost of Materials					1274.4
MR	Labour charges per unit	no	1.00000	59.00	59.00
TOTAL					1333.4
cost for one no					1333.0
Say					1333.0
Cost index 31.06 %					.00
Total with Cost index					1333.00
Say					1333.00

29 Specification Code: od15615/2019_2020

od15615/2019
_2020 : Supply & Installation of telephone cable 10 pair through PVC conduit.

Code	Description	Unit	Quantity	Rate	Amount
MR	Telephone cable 10 pair through PVC conduit	metre	1.00000	54.28	54.28
Total Cost of Materials					54.28
MR	Labour charges per meter	metre	1.00000	23.60	23.60
TOTAL					77.88
cost for one metre					78.0
Say					78.0
Cost index 31.06 %					.00
Total with Cost index					78.00
Say					78.00

30 Specification Code: od15616/2019_2020

od15616/2019
_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	115.05	115.05
Total Cost of Materials					115.05
MR	Labour charges per meter	metre	1.00000	29.50	29.50
TOTAL					144.55
cost for one metre					145.0
Say					145.0
Cost index 31.06 %					.00
Total with Cost index					145.00
Say					145.00

Other Engineering Organisations

31 Specification Code: od15617/2019_2020

od15617/2019 Supply, installation, testing and commissioning of 20 PAIR BOX WITH KRONE
_2020 : MODULES

Code	Description	Unit	Quantity	Rate	Amount
MR	20 PAIR BOX WITH KRONE MODULES	no	1.00000	855.50	855.50
Total Cost of Materials					855.5
MR	Fixing charges per unit	no	1.00000	531.00	531.00
TOTAL					1386.5
cost for one no					1387.0
Say					1387.0
Cost index 31.06 %					.00

Total with Cost index	1387.00
Say	1387.00

32 Specification Code: od16225/2019_2020

od16225/2019
_2020 : Supply, installation, testing and commissioning of Telephone system: NEC Digital Key Telephone System Model-SL2100 32 Bit Micro Processor Configured as 08 P&T lines 48 Hybrid Ports EXPANDABLE MODEL UP TO 128 PCM/TDM 100 % Non-Blocking Inbuilt Conference,32 party Auto attendant (single channel) CLI based call routing AND ALL STANDARD FEATURES

Code	Description	Unit	Quantity	Rate	Amount
MR	NEC Digital Key Telephone System Model-SL2100 32 Bit Micro Processor Configured as 08 P&T lines 48 Hybrid Ports EXPANDABLE MODEL UP TO 128 PCM/TDM 100 % Non-Blocking Inbuilt Conference,32 party Auto attendant (single channel) CLI based call routing AND ALL STANDARD FEATURES	no	1.00000	194750.00	194750.00
Total Cost of Materials					194750.0
MR	Labour charges per no	no	1.00000	5900.00	5900.00
TOTAL					200650.0
cost for one no					200650.0
Say					200650.0
Cost index 31.06 %					.00
Total with Cost index					200650.00
Say					200650.00

EXTERNAL LIGHTING

1 Specification Code: od15510/2019_2020

od15510/2019 Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium
 _2020 : 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	130.00	130.00
	Add Cartage@1.00				1.30
	total				131.30
TOTAL					131.3
Add CPOH @ 15%					19.70
cost for one metre					151.0
Other Engineering Organisations Say					151.0
Cost index 31.06 %					.00
Total with Cost index					151.00
Say					151.00

2 Specification Code: od15518/2019_2020

od15518/2019 Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium
 _2020 : 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	82.00	82.00
	Add Cartage@1.00				0.82
	total				82.82

TOTAL	82.82
Add CPOH @ 15%	12.42
cost for one metre	95.0
Say	95.0
Cost index 31.06 %	.00
Total with Cost index	95.00
Say	95.00

Other Engineering Organisations

3 Specification Code: od16259/2019_2020

PRICE

od16259/2019
_2020 :

Supply, installation, testing and commissioning of 3 Meter street light pole single arm with 13/15 W, 1500 lumen LED, IP 66 street light fitting with aluminium housing, stove enameled CRCA sheet steel reflector cover, acrylic cover complete with THD <10%, power factor >0.98, RoHS compliant, duly wired up for use on 230 V AC supply.

Code	Description	Unit	Quantity	Rate	Amount
MR704	Man Mazdoor	Day	0.03000	675.00	20.25
MR	GI Hot dipped 3/4 meter height street light pole with single arm bracket with all other accessories as required.	no	1.00000	8814.00	8814.00
MR	13/15W LED Street light fitting	no	1.00000	1228.85	1228.85
Total Cost of Materials					10063.1

1005	Fitter, Grade 2	Day	0.04000	407.00	16.28
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		TOTAL	10079.38
		Add CPOH @ 15%	1511.91
		cost for one no	11591.0
		Say	11591.0
		Cost index 31.06 %	5.59
		Total with Cost index	11596.59
		Say	11596.59

4 Specification Code: od69145/2019_2020

SITC of 3 metre Hot dipped galvanised Octogonal pole in single section with od69145/2019 70mm top diameter, 130mm bottom diameter, 3mm sheet thickness, base plate _2020 : dimensions of 200 x 200x 12 mm with 1.0 M long single arm bracket with 13/15W LED street light complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
MR2294	1.0 M long single arm bracket suitable for 3M to 10M octogonal poles	each	1.00000	1980.00	1980.00
	Add Cartage@1.00				19.80
	total				1999.80
MR2269	3 metre Hot dipped galvanised Octogonal pole in single section with 70mm top diameter, 130mm bottom diameter, 3mm sheet thickness, base plate dimensions of 200 x 200x 12 mm	each	1.00000	7990.00	7990.00
	Add Cartage@1.00				79.90
	total				8069.90
MR	13/15W LED street light fitting. (Make: Luker, Model no: LST15)	each	1.00000	1187.00	1187.00

	Add Cartage@1.00				11.87
		total			1198.87
Total Cost of Materials					11268.57
90.3.15	Rate as per item number 90.3.15 of SH: OD Electrical	each	1.00000	74.78	74.78
MR701	Electrician	Day	1.00000	750.00	750.00
MR720	Khalasi	Day	1.00000	750.00	750.00

	TOTAL	12768.57
	cost for one each	12843.0
	Say	12843.0
	Cost index 31.06 %	9.94
	Total with Cost index	12852.94
	Say	12852.94

5 Specification Code: od68402/2019_2020

od68402/2019_2020 : SITC Of 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	Supply and fixing of Weather proof sintex box (Model GSJB6535)	each	1.00000	5606.00	5606.00
	Add Cartage@1.00				56.06
	total				5662.06
MR1885	Red, Green, Black, Yellow, Orange colours LED indicator, AC/DC, 22.5 mm cut out dia	each	1.00000	44.07	44.07
	Add Cartage@1.00				0.44
	total				44.51

MR1601	12 A, 3 pole power Contactors (For 7.5 HP motor), AC 3 rating at 415 V, with AC Coil, Auxiliary contacts, 1 NO/INC	each	1.00000	538.14	538.14
	Add Cartage@1.00				5.38
	total				543.52
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	5.00000	7.03	35.15
	Add Cartage@1.00				0.35
	Add Wastage@5.00				1.76
	total				37.26
Total Cost of Materials					6287.35
2.14.1	Rate as per item number 2.14.1 of SH: MCCB, MCB & DBS	each	1.00000	1434.78	1434.78
2.12.1	Rate as per item number 2.12.1 of SH: MCCB, MCB & DBS	each	1.00000	193.04	193.04
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	5.00000	150.43	752.15
2.3.2	Rate as per item number 2.3.2 of SH: MCCB, MCB & DBS	each	1.00000	922.61	922.61
15.4.1	Rate as per item number 15.4.1 of SH: Lighting Control	no	1.00000	2231.30	2231.30
MR	Labour charges	each	1.00000	2823.03	2823.03
1001	Wireman	Day	0.50000	447.00	223.50
1007	Khallasi	Day	0.50000	368.00	184.00

TOTAL	9517.88
Add CPOH @ 15%	2257.76
cost for one each	17310.0
Say	17310.0
Cost index 31.06 %	2122.33

Total with Cost index	19432.33
Say	19432.33

MAIN BUILDING HVAC SYSTEM
1 Specification Code: od15991/2019_2020

Supply ,installation,testing and commissioning of Modular type outdoor units equipped with minimum 2 Nos of highly efficient DC twin Rotary compressors with od15991/2019 all inverter type compressor(s) only,special 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 .(4-6 HP)

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of Modular type outdoor units equipped with minimum 2 Nos of highly efficient DC twin Rotary compressors with all inverter type compressor(s) only,special 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 .(4-6 HP) Make :- Carrier / ISI Equivalent.	each	1.00000	140646.00	140646.00
Total Cost of Materials					140646.0

MR	Installation, Testing and Commissioning of Modular type outdoor units equipped with minimum 2 Nos of highly efficient DC twin Rotary compressors with all inverter type compressor(s) only, special acryl precoated 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 .(4-6 HP) Make :- Carrier / ISI Equivalent.	each	1.00000	8200.00	8200.00
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TOTAL		148846.0
Add CPOH @ 15%		22326.90
cost for one each		171173.0
Say		171173.0
Cost index 31.06 %		.00
Total with Cost index		171173.00
Say		171173.00

2 Specification Code: od15993/2019_2020

od15993/2019_2020 : Supplying & providing 2.00 TR Split A/C with high wall mounted unit.
Carrier/Hitachi/Voltas/Blue Star. Mini 5Star rating (Drain piping and Installation included).

Code	Description	Unit	Quantity	Rate	Amount
MR	Supplying & providing 2.00 TR Split A/C with high wall mounted unit. Carrier/Hitachi/Voltas/Blue Star.[Mini 5 Star rating]Copper Condensor Only.	each	1.00000	48960.0 0	48960.00
TOTAL					48960.0

Add CPOH @ 15%	7344.00
cost for one each	56304.0
Say	56304.0

Cost index 31.06 %	.00
Total with Cost index	56304.00
Say	56304.00

3 Specification Code: od15995/2019_2020
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od15995/2019
_2020 :

Supply,installation,testing and commissioning of High-Wall indoor units with compact cooling coil,electronic expansion valve and multi speed fan motor,The blower shall be dynamicaly balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(2 TR), Make :- Carrier / ISI Equivalent.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply of 4 way High-Wall units with compact cooling coil,electronic expansion valve and multi speed fan motor,The blower shall be dynamicaly balanced and designed for silent operation ,the filters shall be washable type .Drain Pump is a part of the indoor unit.(2 TR),Make :- Carrier / ISI Equivalent.	each	1.00000	33587.0 0	33587.00
Total Cost of Materials					33587.0
MR	Installation and commissioning of CASSETTE unit (2 TR)	each	1.00000	3300.00	3300.00
TOTAL					36887.0
Add CPOH @ 15%					5533.05
cost for one each					42420.0
Say					42420.0

Cost index	31.06 %	.00
Total with Cost index		42420.00
	Say	42420.00

4 Specification Code: od16017/2019_2020

od16017/2019 Supply and installation of Refrigerant Copper piping insulated with Nitrile Rubber
_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.	each	1.00000	1838.00	1838.00
TOTAL					1838.0
Add CPOH @ 15%					275.70
cost for one each					2114.0
Say					2114.0
Cost index 31.06 %					.00
Total with Cost index					2114.00
Say					2114.00

EXISTING CLASS ROOMS CONVERTED TO SMART CLASS ROOMS

1 Specification Code: od15702/2019_2020

od15702/2019_2020 :Supply,deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivelent Executive Visitor Net Chair,
Overall Size (approx): H-98 x W-58 x D-63.5 (cm)
Seat Height: 48 (cm)
Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr.
Tapestry will be tested quality such as stain test, ultra violet test,glue test
and color fastening with average weight of 450 grams per square meter

Cushioning: PU foam having density of 50 kgs/m³ for seat. Average
thickness of foam not less than 50 mm + 10 mm Polly foam.
Arm rest material: Polyurethane on Chrome
Shoes: Nylon Rubber

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	10185.00	10185.00
MR	Transportation	each	1.00000	250.00	250.00
TOTAL					10435.00
cost for one each					10435.00
	say				10435.00

	Add Water Charges @ 1.0%				104.35
	Add CPOH @ 15.0%				1580.90
	Cost index 31.06 %				0.00
	Total with Cost index				12120.25
	Say				12120.25

2 Specification Code: od18759/2019_2020

od18759/2019_2020 :Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equivalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students.
Overall size : H-760 x W-1040 x D-1000 (mm)
Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB)with 0.6mm laminated with 2mm PVC beading by hot melt glue
process all over 4 edges.
Bench Main frame tube & Support tube of 32mm, 16swg ERW round tube.
Seat & Back frame tube of 19mm, 16swg ERW round tube.
Seat & Back support of 25x25x1.6mm (16swg) thick. square ERW tube.
Seat & Back of 18swg. Perforated CRCA sheet IS 513.
Storage Bucket of 18swg. Perforated CRCA sheet IS 513.
Good quality PVC shoes & cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply delever and place	each	1.00000	7694.00	7694.00
TOTAL					7694.00

					cost for one each	7694.00
	say					7694.00

	Add Water Charges @ 1.0%				76.94
	Add CPOH @ 15.0%				1165.64
	Cost index 31.06 %				0.00
	Total with Cost index				8936.58
	Say				8936.58

3 Specification Code: od18761/2019_2020

od18761/2019_2020 :Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	as per quote received	each	1.00000	7094.00	7094.00
TOTAL					7094.00
cost for one each					7094.00
	say				7094.00

	Add Water Charges @ 1.0%				70.94
	Add CPOH @ 15.0%				1074.74
	Cost index 31.06 %				0.00
	Total with Cost index				8239.68

	Say				8239.68
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4 Specification Code: od18762/2019_2020

od18762/2019_2020 :Supply and fixing White Board: 4'x6' magnetic White
FOR ONE ITEM

Code	Description	Unit	Quantity	Rate	Amount
MR	SUPPLY and fix	each	1.00000	6356.00	6356.00
TOTAL					6356.00
cost for one each					6356.00
	say				6356.00

	Add Water Charges @ 1.0%				63.56
	Add CPOH @ 15.0%				962.93
	Cost index 31.06 %				0.00
	Total with Cost index				7382.49
	Say				7382.49

FURNITURE FOR MAIN BUILDING

1 Specification Code: od15702/2019_2020

od15702/2019_2020 :Supply,deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivelent Executive Visitor Net Chair,
Overall Size (approx): H-98 x W-58 x D-63.5 (cm)
Seat Height: 48 (cm)
Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr.
Tapestry will be tested quality such as stain test, ultra violet test,glue test
and color fastening with average weight of 450 grams per square meter
Cushioning: PU foam having density of 50 kgs/m3 for seat. Average
thickness of foam not less than 50 mm + 10 mm Polly foam.
Arm rest material: Polyurethane on Chrome
Shoes: Nylon Rubber

Code	Description	Unit	Quantity	Rate	Amount
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MR	Supply	each	1.00000	10185.00	10185.00
MR	Transportation	each	1.00000	250.00	250.00

TOTAL					10435.00
cost for one each					10435.00
	say				10435.00

	Add Water Charges @ 1.0%				104.35
	Add CPOH @ 15.0%				1580.90
	Cost index 31.06 %				0.00
	Total with Cost index				12120.25
	Say				12120.25

2 Specification Code: od18759/2019_2020

Other Engineering Organisations

**od18759/2019_2020 :Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equivalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students.
Overall size : H-760 x W-1040 x D-1000 (mm)
Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB)with 0.6mm laminated with 2mm PVC beading by hot melt glue
process all over 4 edges.
Bench Main frame tube & Support tube of 32mm, 16swg ERW round tube.
Seat & Back frame tube of 19mm, 16swg ERW round tube.
Seat & Back support of 25x25x1.6mm (16swg) thick. square ERW tube.
Seat & Back of 18swg. Perforated CRCA sheet IS 513.
Storage Bucket of 18swg. Perforated CRCA sheet IS 513.
Good quality PVC shoes & cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.**

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply delever and place	each	1.00000	7694.00	7694.00
TOTAL					7694.00
cost for one each					7694.00
	say				7694.00

	Add Water Charges @ 1.0%				76.94
	Add CPOH @ 15.0%				1165.64
	Cost index 31.06 %				0.00
	Total with Cost index				8936.58
	Say				8936.58

3 Specification Code: od18761/2019_2020

od18761/2019_2020 :Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.
Rate for each

Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
MR	as per quote received	each	1.00000	7094.00	7094.00
				TOTAL	7094.00
				cost for one each	7094.00
	say				7094.00

	Add Water Charges @ 1.0%				70.94
	Add CPOH @ 15.0%				1074.74
	Cost index 31.06 %				0.00
	Total with Cost index				8239.68
	Say				8239.68

4 Specification Code: od19132/2019_2020

od19132/2019_2020 :Supply, deliver and place trademark registered branded (JALARAM make- JSF 102 A) or approved equivalent JALARAM Multipurpose storage cabinet with 2 adjustable shelves and 1 full locker. Overall size: H-1980 x W-915 x D-485(mm) (H-78"xW-36"x D-19") Material Specifications: The raw material used in cupboard will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. The cupboard should have welded construction with MIG welding process. The material used for constructing the cupboard should be prime quality Cold Rolled Close Annealed (CRCA) Steel (for doors and shelves 1.0 mm & other parts as per functional requirements) The doors provided will be full height steel hinged doors The handle provided will be matching, easy to grip, sleek and elegant. The Cupboard will have a 3 way locking Mechanism Minimum 6 levers (With duplicate keys) mechanism with shooting bolt arrangement. Shelving: The shelving will be Height wise Adjustable and Shelf Mounting. The Uniformly Distributed Load (UDL) Capacity per each full shelf will be 40 Kg at least. The cupboard will have 2 numbers of adjustable and 1 fixed full shelves with 1 full locker. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust.
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM make- JSF 102 A) JALARAM or approved equivalent Multipurpose storage cabinet with 2 adjustable shelves and 1 full locker.	each	1.00000	15015.00	15015.00
Other Engineering Organisations TOTAL					15015.00
cost for one each					15015.00
	say				15015.00

	Add Water Charges @ 1.0%				150.15
	Add CPOH @ 15.0%				2274.77
	Cost index 31.06 %				0.00
	Total with Cost index				17439.92
	Say				17439.92

5 Specification Code: od19133/2019_2020

od19133/2019_2020 :Supply, deliver and place trademark registered branded (JALARAM make JED 1512) or approved equivalent Executive Desk with side unit and credenza. Desktop mounted on SS tubular legs and specially designed pedestal storage with utility spaces inspired by your needs. Size: (A) Main Desk : W-2000 x D-900 x H-750 mm (B) Side Unit : W-1050 x D-500 x H-750mm (C) Credenza : W-2000 x D-400 x H-1190mm
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM make JED 1512 or approved equivalent Executive Desk with side unit and credenza	each	1.00000	156580.00	156580.00
TOTAL					156580.00
cost for one each					156580.00
	say				156580.00

	Add Water Charges @ 1.0%				1565.80
	Add CPOH @ 15.0%				23721.87
	Cost index 31.06 %				0.00
	Total with Cost index				181867.67
	Say				181867.67

6 Specification Code: od19134/2019_2020

od19134/2019_2020 :Supply, deliver and place registered branded (JALARAM Make-JEC 2017(D)) or approved equivalent Executive High Back Revolving Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. Leatherette Finish, High quality mould foam cushion, Die-Cast Aluminium with buffing pedestal, 5 Position locking system with swivel mechanism, Chrome Finished Armrest, Anti-Shock and Synchro Tilt Mechanism , Adjustable cozy armrest , Overall Size (approx) :-H: 117.0 - 126.5 x W:75 x D:75 (cm) ,Seat Height:- 44-54 (cm) Front Pivot Synchro Mechanism: This mechanism helps you experience the effect of your body angle opening out, for maximum relaxation, while your feet remain firmly on the ground. 5-Position Locking: The backrest can be locked in 5 different positions, giving you firm support for concentrated work. Its anti-shock mechanism prevents the backrest from impacting the user when the lock is released. Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness, which not only gives

you a soft feeling on first contact but also provides a firm support to ensure hours of comfortable seating, Swivel Mechanism: The swivel mechanism allows for a complete 3600 lateral movement. This prevents you from straining over your shoulders and back to reach out for papers and phones kept on either side of your table, ensuring mobility while working. Twin Wheel Castors: The twin wheel castors facilitates ease of movement.

Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM Make-JEC 2017(D) or approved equivalent Executive High Back Revolving Chair	each	1.00000	20653.00	20653.00
TOTAL					20653.00
cost for one each					20653.00
	say				20653.00

	Add Water Charges @ 1.0%				206.53
	Add CPOH @ 15.0%				3128.92
	Cost index 31.06 %				-0.01
	Total with Cost index				23988.46
	Say				23988.46

7 Specification Code: od19135/2019_2020

od19135/2019_2020 :Supply, deliver and place registered branded (JALARAM Make-JEC 2017(F)) or approved equivalent Executive Visitor Chair, Tested by approved BIFMA standard laboratories confirming to ANSI/BIFMA X 5.1- 2002 Cl. No. 5,7,8,12,13,17 on functional requirement. With Leatherette Finish Moulded Foam: The seat and the backrest are made up of moulded polyurethane foam of the right density and thickness.

Rate for each

Code	Description	Unit	Quantity	Rate	Amount
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MR	Supply, deliver and place JALARAM Make-JEC 2017(F)or approved equivalent Executive Visitor Chair	each	1.00000	15066.00	15066.00
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				TOTAL	15066.00
				cost for one each	15066.00
	say				15066.00

	Add Water Charges @ 1.0%				150.66
	Add CPOH @ 15.0%				2282.49
	Cost index 31.06 %				0.00
	Total with Cost index				17499.16
	Say				17499.16

8 Specification Code: od19136/2019_2020

Other Engineering Organisations

od19136/2019_2020 :Supply, deliver and place Trademark registered branded (JALARAM make-JED 200) or approved equivalent Chief Executive Suite with PU coated 36 mm post formed top, Executive Return Unit & 3 Drawer Pedestal Unit,Size of the main Table: W-250 x D-110 x H-75 cm, Size of the Pedestal for Main Table: W-42.5 x D-80 cm, Size of Return Unit: W-127.5 x D-58 cm ,Size of the Pedestal for Return Unit: W-42.5xD-58 cm

Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM make-JED 200) or approved equivalent Chief Executive Suite.	each	1.00000	124743.00	124743.00
				TOTAL	124743.00
				cost for one each	124743.00
	say				124743.00

	Add Water Charges @ 1.0%				1247.43
	Add CPOH @ 15.0%				18898.56

	Cost index 31.06 %				0.00
	Total with Cost index				144888.99
	Say				144888.99

9 Specification Code: od19137/2019_2020

od19137/2019_2020 :Supply, deliver and place registered branded (JALARAM make JED 220) or approved equivalent Executive Desk elegant looking main desk with mobile pedestal and return unit. A real beauty of the blend of wood and steel. Main Desk Size: W-180 x D-90 x H-75 (cm) Joining Top (Black Finish) Size: W-105 x D-120 (cm) Fixed Side Return Desk Size :W-120 x D-60 x H-72(cm) Mobile Pedestal Size: W-40.5 x D-57 x H-50(cm).

Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM make JED 220) or approved equivalent Executive Desk elegant looking main desk with mobile pedestal and return unit5 compartments.	each	1.00000	63333.00	63333.00
				TOTAL	63333.00
				cost for one each	63333.00
	say				63333.00

	Add Water Charges @ 1.0%				633.33
	Add CPOH @ 15.0%				9594.94
	Cost index 31.06 %				0.00
	Total with Cost index				73561.28
	Say				73561.28

10 Specification Code: od19138/2019_2020

od19138/2019_2020 :Supply, deliver and place Trademark registered branded (JALARAM Make-JSS 908) or approved equivalent Sofa Set Overall Size of 3 seater: H-762 x W-2134 x D-812 mm

Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM Make-JSS 908 or approved equivalent Sofa Set	each	1.00000	37916.00	37916.00
TOTAL					37916.00
cost for one each					37916.00
	say				37916.00

	Add Water Charges @ 1.0%				379.16
	Add CPOH @ 15.0%				5744.27
	Cost index 31.06 %				0.00
	Total with Cost index				44039.43
	Other Engineering Organisations Say				44039.43

11 Specification Code: od19139/2019_2020

od19139/2019_2020 :Supply, deliver and place Trademark registered branded (JALARAM make-JED 204 (A)) or approved equivalent Executive table, both side storage unit of special size. 2 drawers cum filing drawer & a center drawer, mounted on telescopic channel. Overall Size of curvica top: W-180 x D-90 cm ,Height of table 72.5 (cm) Material Specification: Two pedestals having 2 box drawers and 1 filing drawer with independent locking arrangement (cam lock) for each pedestal. Drawers shall have a clear depth of > 400 mm. One center drawer having ~ 350 mm clear depth with independent locking arrangement. The top should be made of 25 mm thick Pre‐ laminated board(PLB) of TESA with 2 mm thick matching lipping. Under Structure: Two pedestals shall be a combination of processed wood (PLB) and Mild Steel (MS). Pedestal shell to be 0.80 mm thick MS sheet. Drawer tray to be made from 0.6 mm thick M.S sheet. Drawer separator to be made from 0.6 mm thick M.S. sheet. PLB drawer fronts (18 mm thick PLB) to match the top colour. Drawers to be mounted on double extension steel telescopic ball slides to give full access to the drawer. Sleek handles for easy grip. Glides screws for leveling.Stiffeners (1.6 mm thick) is to be provided under the top to give additional strength. Powder coating: Powder coating on all items with dry film thickness not less

than 50 microns, Salt Spray test to withstand more than 1000 hours, Pencil scratch hardness more than 2H, Adhesion as per DIN 53152 Standards. The powder coating shall be of good quality (7 process) to ensure good adhesion of life of the coating. Modesty: Shall be made from 1.0 mm thick MS. Panel recessed inside for more leg room. Panel to be styled with cut‐outs (windows) for better physical appearance.
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply	each	1.00000	21714.00	21714.00
TOTAL					21714.00
cost for one each					21714.00
	say				21714.00

	Add Water Charges @ 1.0%				217.14
	Add CPOH @ 15.0%				3289.67
	Cost index 31.06 %				-0.01
	Total with Cost index				25220.81
	Other Engineering Organisations Say				25220.81

12 Specification Code: od19140/2019_2020

od19140/2019_2020 :Supply, deliver and place registered branded (JALARAM make JSF 115(6) E) or approved equivalent slotted angle rack (Open type) Overall size: H-78" X W-36" X D-18" Angle: 40 x 40 x 2 mm (4 nos.) Shelves: 36" x 18" (22 swg. 6 nos.) Corner plate: 8 nos. Nuts & bolts: 64 nos. Shoes: 4 nos. The raw material used will be PRIME quality CRCA as per IS 513 (1994,1998) 'D' grade. OEM must enclose Proof of purchase of steel from SAIL/Tata Steel/Essar/ Jindal. Finishing: All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place JALARAM make JSF 115(6) E or approved equivalent slotted angle rack	each	1.00000	4275.00	4275.00

TOTAL					4275.00
cost for one each					4275.00
	say				4275.00

	Add Water Charges @ 1.0%				42.75
	Add CPOH @ 15.0%				647.66
	Cost index 31.06 %				0.00
	Total with Cost index				4965.41
	Say				4965.41

13 Specification Code: od19141/2019_2020

od19141/2019_2020 :Supply, deliver and place Drafting table for drawing hall, Studio Designs 47.75"W Laminate Fusion Craft Center Drafting Table White (model no 10102) or approved equivalent brand. The Fusion Table features: an angle adjustable top (35.25" Wide x 23.75" Deep), a 24" pencil ledge, wide floor levelers for stability and is made of powder coated metal for durability. The 24" Premier Metal Art Tray (Also sold separately-Item # 12167) attaches to the side of the table top. It has a tool cup, a large 12"x 4" opening that accommodates the Flexible Foam Pencil Organizer (Also Sold Separately- Item # 12174). This Foam Organizer Tray has 96-10mm holes for pencils or markers and a cell phone slot to keep your phone clean and close during your projects.Overall Dimensions: 47.75" W x 23.75" D x 35.5" H. Top Dimensions: 35.25" W x 23.75" D with Angle adjustment from Flat to 60 Degrees. Height Adjustable from 27.75" -35.5" when Flat. Includes the Premier Metal Art Tray 24" with Swivel Cup and Slot for Flexible Foam Pencil Organizer (also sold separately). Flexible Foam Organizer Accommodates Pencils and Markers up to 10mm. Slide-Out Side Shelf provides Extra Workspace and Two Wire Mesh Storage Drawers. Slide-Up Pencil Ledge: 24" W. Steel Frame Construction for Durability with Four Wide Floor Levelers for Stability .Padded Stool Included: 21" H.Maximum weight capacity limit -Top: 50 lbs. Side Shelf: 15 lbs. Bottom Shelf: 15 lbs. Stool: 175 lbs.
Rate for each

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, deliver and place Supply, deliver and place Drafting table for drawing hall, Studio Designs 47.75"W Laminate Fusion Craft Center Drafting Table White (model no 10102)	each	1.00000	12711.00	12711.00
TOTAL					12711.00
cost for one each					12711.00

	say				12711.00
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	Add Water Charges @ 1.0%				127.11
	Add CPOH @ 15.0%				1925.71
	Cost index 31.06 %				0.00
	Total with Cost index				14763.83
	Say				14763.83

14 Specification Code: od19142/2019_2020

od19142/2019_2020 :Supply and install Jasos brand JC-S 03 Model or approved equivalent auditorium seating chair comprise of seat and back frames made with CR pipes, Back cover with PPCP tray, Up holstory PU molded form of density 52-58 kg/m3, Mechanisms as legs made of CR pipes with PU cup holder arm rest,push back mechanism - box and Nylon cast metal rollers, with spring, height of chair 97cm - 100cm @52cm centre to centre, 90x8mm with chemical bonding method, All seat and back frames with enamel painting, Legs - powder coated, Mechanism- Laqor paint finished.
Rate of each seat

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply Jasos brand JC-S 03 Model auditorium seating chair	each	1.00000	4000.00	4000.00
9988	Carriage and sundries	L.S	27.28000	1.73	47.19
0116	Fitter(grade1)	Day	0.10000	487.00	48.70
0115	Coolie	Day	0.10000	368.00	36.80
TOTAL					4132.69
cost for one each					4132.69
	say				4132.69

	Add Water Charges @ 1.0%				41.32
	Add CPOH @ 15.0%				626.10

	Cost index 31.06 %				47.86
	Total with Cost index				4847.99
	Say				4847.99

MAIN BUILDING FIRE PROTECTION SYSTEM

1 Specification Code: od15495/2019_2020

od15495/2019
_2020 : 3 core cable,2.5sq mm,copper. Make:- ISI approved

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	143.00	143.00
Total Cost of Materials					143.0
1001	Wireman	Day	0.16000	447.00	71.52
1007	Khallasi	Day	0.16000	368.00	58.88
TOTAL					273.4
Add CPOH @ 15%					41.01
cost for one metre					314.0
Say					314.0
Cost index 31.06 %					46.59
Total with Cost index					360.59
Say					360.59

2 Specification Code: od15506/2019_2020

od15506/2019
_2020 : Downcomer panel with starter panel for terrace pump. Make: IS Approved

Code	Description	Unit	Quantity	Rate	Amount
MR1981	Three Phase DOL starters for 0.25 to 7.5 HP motor	each	1.00000	1355.93	1355.93
	Add Cartage@1.00				13.56
	total				1369.49
Total Cost of Materials					1369.49
1001	Wireman	Day	1.00000	447.00	447.00
1007	Khallasi	Day	1.00000	368.00	368.00
TOTAL					2184.49
Add CPOH @ 15%					327.67
cost for one no					2512.0
Say					2512.0
Cost index 31.06 %					291.03
Total with Cost index					2803.03
Say					2803.03

3 Specification Code: od15530/2019_2020

od15530/2019
_2020 : Supplying, testing, installation & commissioning of pressure switches for Hydrant, Standby and Jockey Pumps, including necessary wiring upto control panel & other materials.
Make :- ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR2358	Pressure Switch	each	1.00000	2458.00	2458.00
	Add Cartage@1.00				24.58
	total				2482.58

Total Cost of Materials					2482.58
1001	Wireman	Day	0.50000	447.00	223.50
1016	Mate	Day	0.50000	368.00	184.00

TOTAL					2890.08
Add CPOH @ 15%					433.51
cost for one each					3324.0
Say					3324.0
Cost index 31.06 %					145.67
Total with Cost index					3469.67
Say					3469.67

4 Specification Code: od15551/2019_2020

od15551/2019_2020 : Supplying, testing, installation & commissioning of pressure switches for Hydrant, and Standby, including necessary wiring up to control panel & other materials. Make :- ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR	Pressure Switches	each	1.00000	1947.00	1947.00
Total Cost of Materials					1947.0
1001	Wireman	Day	0.50000	447.00	223.50
MR	Helper	Day	0.50000	372.97	186.49
TOTAL					2356.99
Add CPOH @ 15%					353.55
cost for one each					2711.0
Say					2711.0
Cost index 31.06 %					79.82
Total with Cost index					2790.82
Say					2790.82

5 Specification Code: od15555/2019_2020

od15555/2019
_2020 :

Above Ground Piping :- Providing, fixing, welding joints and testing of 80 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
MR	Providing and fabricating 80 mm Dia. pipes including painting with primer and synthetic enamel	metre	10.0000 0	442.50	4425.00
MR	Cost of necessary brackets, supports, saddles, clamps, hangers, vibration-isolator's and fittings such as bends, tees etc. @15%	L.S	1.00000	663.75	663.75
MR	Cartage 5%	L.S	1.00000	221.25	221.25
MR2168	Welding rod	each	41.0000 0	2.19	89.79
	Add Cartage@1.00				0.90
	total				90.69
MR2122	Red oxide primer	Litre	1.00000	93.22	93.22
	Add Cartage@1.00				0.93
	total				94.15
MR2218	Synthetic enamel paint	Litre	1.00000	178.81	178.81
	Add Cartage@1.00				1.79
	total				180.60
MR	Other miscellaneous tools	L.S	1.00000	59.00	59.00
Total Cost of Materials					5734.44

1004	Fitter, Grade 1	Day	1.50000	447.00	670.50
1087	Welder	Day	1.50000	447.00	670.50
1016	Mate	Day	2.75000	368.00	1012.00
1006	Painter	Day	1.25000	407.00	508.75

TOTAL		8596.19
Add CPOH @ 15%		1289.43
cost for 10.0 metre		9885.62
cost for one metre		989.0
Say		989.0
Cost index 31.06 %		102.50
Total with Cost index		1091.50
Say		1091.50

6 Specification Code: od15564/2019_2020

Other Engineering Organisations

od15564/2019 Providing and fixing 100mm dia. Cast iron Non-Return Valve. Make:- ISI
_2020 : Approved.

Code	Description	Unit	Quantity	Rate	Amount
3043	100 mm dia	each	1.00000	2294.25	2294.25
Total Cost of Materials					2294.25
1004	Fitter, Grade 1	Day	0.50000	447.00	223.50
TOTAL					2517.75
Add CPOH @ 15%					377.66
cost for one each					2895.0
Say					2895.0
Cost index 31.06 %					899.19
Total with Cost index					3794.19

Say	3794.19
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7 Specification Code: od15571/2019_2020

od15571/2019
_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
	Add necessary specials@5.00				36.00
	total				763.20
Total Cost of Materials					763.2
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40
Other Engineering Organisations TOTAL					852.6
Add CPOH @ 15%					127.89
cost for one each					980.0
Say					980.0
Cost index 31.06 %					31.68
Total with Cost index					1011.68
Say					1011.68

8 Specification Code: od15575/2019_2020

od15575/2019
_2020 : Providing and fixing 25 mm dia. Air Releasing Valve. Make:- ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
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MR2359	Air Release Valve	each	1.00000	1314.00	1314.00
	Add Cartage@1.00				13.14
		total			1327.14
Total Cost of Materials					1327.14
1004	Fitter, Grade 1	Day	0.10000	447.00	44.70

TOTAL		1371.84
Add CPOH @ 15%		205.78
cost for one each		1578.0
Say		1578.0
Cost index 31.06 %		16.15
Total with Cost index		1594.15
Say		1594.15

9 Specification Code: od15577/2019_2020

Other Engineering Organisations

od15577/2019 Providing and fixing Fire Man axe as required with Test Certificate of 20,000
_2020 : volts.Make : - ISI Approved.

Code	Description	Unit	Quantity	Rate	Amount
MR	Fireman's Axe	each	1.00000	1280.30	1280.30
Total Cost of Materials					1280.3
1004	Fitter, Grade 1	Day	0.10000	447.00	44.70
TOTAL					1325.0
Add CPOH @ 15%					198.75
cost for one each					1524.0
Say					1524.0
Cost index 31.06 %					16.15
Total with Cost index					1540.15

Say	1540.15
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10 Specification Code: od15581/2019_2020

FIRE DUCT :- Supply & installing in position self glowing " FIRE DUCT " sign board of size 100mm x 300 mm made of luminescent safely, rigid sheet in green 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	Providing and fixing FIRE DUCT Signage	each	1.00000	354.00	354.00
Total Cost of Materials					354.0
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40
TOTAL					443.4
Add CPOH @ 15%					66.51
cost for one each					510.0
Say					510.0
Cost index 31.06 %					31.99
Total with Cost index					541.99
Say					541.99

11 Specification Code: od15585/2019_2020

FIRE EXIT :- Supply & installing in position self glowing " FIRE EXIT " sign board of size 100mm x 300 mm 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
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MR	Providing and fixing FIRE EXIT Signage	each	1.00000	354.00	354.00
Total Cost of Materials					354.0
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40

TOTAL				443.4
Add CPOH @ 15%				66.51
cost for one each				510.0
Say				510.0
Cost index 31.06 %				31.99
Total with Cost index				541.99
Say				541.99

12 Specification Code: od15589/2019_2020

od15589/2019
_2020 : Providing and fixing 100 mm Dia. cast iron Butterfly valve of the following size complete with S.S. 304 disc, bolts, nuts, washers and neoprene gaskets as per specifications.

Code	Description	Unit	Quantity	Rate	Amount
3027	100mm dia	each	1.00000	3465.00	3465.00
Total Cost of Materials					3465.0
1004	Fitter, Grade 1	Day	0.50000	447.00	223.50
1016	Mate	Day	0.50000	368.00	184.00
TOTAL					3872.5
Add CPOH @ 15%					580.88
cost for one each					4453.0
Say					4453.0
Cost index 31.06 %					1383.10
Total with Cost index					5836.10
Say					5836.10

13 Specification Code: od15920/2019_2020

od15920/2019_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 31.06 %					.00
Total with Cost index					662372.00
Say					662372.00

14 Specification Code: od15921/2019_2020

od15921/2019
_2020 :

Above 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
MR	Providing and fabricating 100 mm Dia. pipes including painting with primer and synthetic enamel	metre	10.0000 0	550.00	5500.00
MR	Cost of necessary brackets, supports, saddles, clamps, hangers, vibration-isolator's and fittings such as bends, tees etc. @15%	L.S	1.00000	825.00	825.00
MR	Cartage 5%	L.S	1.00000	275.00	275.00
MR2168	Welding rod	each	36.0000 0	2.19	78.84
	Add Cartage@1.00				0.79
	total				79.63
MR2122	Red oxide primer	Litre	1.00000	93.22	93.22
	Add Cartage@1.00				0.93
	total				94.15
MR2218	Synthetic enamel paint	Litre	1.00000	178.81	178.81
	Add Cartage@1.00				1.79
	total				180.60
MR	Other miscellaneous tools	L.S	1.00000	50.00	50.00
Total Cost of Materials					7004.38
1004	Fitter, Grade 1	Day	2.00000	447.00	894.00
1087	Welder	Day	2.00000	447.00	894.00

1016	Mate	Day	3.00000	368.00	1104.00
1006	Painter	Day	1.25000	407.00	508.75

	TOTAL	10405.13
	Add CPOH @ 15%	1560.77
	cost for 10.0 metre	11965.90
	cost for one metre	1197.0
	Say	1197.0
	Cost index 31.06 %	121.44
	Total with Cost index	1318.44
	Say	1318.44

15 Specification Code: od15922/2019_2020

od15922/2019
_2020 :

FIRE PUMPS (terrace pump) : - "Supplying, installing, testing & commissioning of electric driven pressurization
pump (terrace pump) suitable for automatic operation and consisting of following: complete in all respect
as required : "Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with
stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cm. at highest and
farthest outlet at specified flow of 900 lpm. Make :- ISI kirloskar (KDS 520)/ IS Approved

Code	Description	Unit	Quantity	Rate	Amount
MR2320	Terrace Pump 7.5HP	each	1.00000	40127.0 0	40127.00
	Add Cartage@1.00				401.27
	Add necessary specials@5.00				2006.35
	total				42534.62
Total Cost of Materials					42534.62
MR	Supplying testing and commissioning	no	1.00000	3000.00	3000.00
TOTAL					45534.62

Add CPOH @ 15%	6830.19
cost for one no	52365.0
Say	52365.0

Cost index 31.06 %	.00
Total with Cost index	52365.00
Say	52365.00

16 Specification Code: od15923/2019_2020

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, od15923/2019 washers or
welded joint with flange joints on bends and other fitting etc, _2020 : painting with one coat
of anti-corrosive paint and two coats of epoxy paint and and wrapping with
polymer corrosion protection tape confirming to IS 10221 with proper overlapping,
trimming etc. complete as required . (for wet riser system)

Code	Description	Unit	Quantity	Rate	Amount
MR	Providing and fabricating 100 mm Dia. pipes including painting with primer and synthetic enamel	metre	10.0000 0	550.00	5500.00
MR	Cost of necessary brackets, supports, saddles, clamps, hangers, vibration-isolator's and fittings such as bends, tees etc. @15%	L.S	1.00000	825.00	825.00
MR	Cartage 5%	L.S	1.00000	275.00	275.00
MR	PYPKOTE	sqm	7.85000	267.00	2095.95
MR	Bitumen paint	Litre	3.00000	76.00	228.00
MR	Adhesive	L.S	1.00000	100.00	100.00

MR2168	Welding rod	each	36.0000 0	2.19	78.84
	Add Cartage@1.00				0.79
		total			79.63
Total Cost of Materials					9103.58
1004	Fitter, Grade 1	Day	2.00000	447.00	894.00
1087	Welder	Day	3.25000	447.00	1452.75
1016	Mate	Day	2.00000	368.00	736.00
1006	Painter	Day	1.00000	407.00	407.00

	TOTAL	12593.33
	Add CPOH @ 15%	1889.00
	cost for 10.0 metre	14482.33
	cost for one metre	1448.0
	Say	1448.0
	Cost index 31.06 %	124.55
	Total with Cost index	1572.55
	Say	1572.55

17 Specification Code: od16188/2019_2020

od16188/2019_2020 : Supply, installing, testing and commissioning of Fire Extinguisher dry chemical powder type ISI mark, 4 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
	Add necessary specials@5.00				84.75
		total			1796.70

Total Cost of Materials					1796.7
1004	Fitter, Grade 1	Day	0.20000	447.00	89.40

TOTAL					1886.1
Add CPOH @ 15%					282.92
cost for one each					2169.0
Say					2169.0
Cost index 31.06 %					31.99
Total with Cost index					2200.99
Say					2200.99

18 Specification Code: od16189/2019_2020

od16189/2019_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.

Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
MR	Canvas Hose 15m hose with instantaneous coupling	each	1.00000	4181.00	4181.00
Total Cost of Materials					4181.0
1004	Fitter, Grade 1	Day	0.40000	447.00	178.80
1016	Mate	Day	0.40000	368.00	147.20
TOTAL					4507.0
Add CPOH @ 15%					676.05
cost for one each					5183.0
Say					5183.0
Cost index 31.06 %					116.47
Total with Cost index					5299.48
Say					5299.48

19 Specification Code: od16190/2019_2020

od16190/2019
_2020 :
Supplying and fixing stainless steel Single headed internal hydrant valves with instantaneous stainless steel couplings of 63mm dia. With cast iron wheel ISI marked conforming to IS 5290 (Type-A) with blank stainless steel cap and chain, stainless steel orifice plate for reducing the pressure upto 3.5 kg/cm² at outlet.
Make:- ISI Approved

Code	Description	Unit	Quantity	Rate	Amount
MR	Nuts Bolts, Washers, Gasket etc.	L.S	1.00000	533.36	533.36
MR2333	Hydrant Valve - Single	each	1.00000	6186.00	6186.00
	Add Cartage@1.00				61.86
	total				6247.86
Total Cost of Materials					6781.22
1004	Fitter, Grade 1	Day	0.30000	447.00	134.10
1016	Mate	Day	0.50000	368.00	184.00
TOTAL					7099.32
Add CPOH @ 15%					1064.90
cost for one each					8164.0
Say					8164.0
Cost index 31.06 %					113.68
Total with Cost index					8277.68
Say					8277.68

20 Specification Code: od16191/2019_2020

od16191/2019
_2020 :
FIRE HOSE REEL : - Providing and fixing first aid hose reel full swinging type with 30 m length x 20 mm dia rubber lined pipe with ABS plastic shut off nozzle of 6 mm dia. The hose reel shall conform to IS requirements. Rate shall include 25 mm dia pipe connection from riser to hose reel including flexible pipe, sockets,

nipples, elbows and 25 mm ball valve. Make:
Newage/SRI/Monsher"

Code	Description	Unit	Quantity	Rate	Amount
MR	Swinging fittings	L.S	1.00000	266.00	266.00
MR	25mm dia GM valve	each	1.00000	401.00	401.00
MR	Connections for Valve	L.S	1.00000	177.00	177.00
MR2338	Hose reel	each	1.00000	6992.00	6992.00
	Add Cartage@1.00				69.92
	total				7061.92
Total Cost of Materials					7905.92
1004	Fitter, Grade 1	Day	0.50000	447.00	223.50
1016	Mate	Day	0.50000	368.00	184.00
TOTAL					8313.42
Add CPOH @ 15%					1247.01
cost for one each					9560.0
Say					9560.0
Cost index 31.06 %					145.36
Total with Cost index					9705.36
Say					9705.36

21 Specification Code: od16192/2019_2020

od16192/2019
_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
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MR	Miscellaneous items (Lock, Standpost etc.)	L.S	1.00000	392.00	392.00
MR	Paints and accessories	L.S	1.00000	629.00	629.00
MR2335	Hose Cabinet- Single	each	1.00000	2542.00	2542.00
	Add Cartage@1.00				25.42
	total				2567.42
Total Cost of Materials					3588.42
1004	Fitter, Grade 1	Day	1.00000	447.00	447.00
1087	Welder	Day	2.00000	447.00	894.00

TOTAL	4929.42
Add CPOH @ 15%	739.41
cost for one each	5669.0
Say	5669.0
Cost index 31.06 %	478.95
Total with Cost index	6147.95
Say	6147.95

NEW SMART CLASSROOM ELV WORKS
1 Specification Code: od15492/2019_2020

od15492/2019
_2020 : Supply, installation, testing and commissioning of LAN socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	no	1.00000	194.70	194.70
Total Cost of Materials					194.7
MR	Electrician	no	1.00000	64.90	64.90
TOTAL					259.6
cost for one no					260.0

Say	260.0
Cost index 31.06 %	.00
Total with Cost index	260.00
Say	260.00

2 Specification Code: od15496/2019_2020

od15496/2019 Supply and installation of GI box for modular switch installation including base
_2020 : plate and front plate 1/2 M

Code	Description	Unit	Quantity	Rate	Amount
MR	GI box for modular switch installation including base plate and front plate 1/2 M	no	1.00000	56.64	56.64
MR	Electrician	no	1.00000	177.00	177.00
TOTAL					233.64
cost for one no					234.0
Say					234.0
Cost index 31.06 %					.00
Total with Cost index					234.00
Say					234.00

3 Specification Code: od16275/2019_2020

Supply, installation, testing and commissioning of Bio Metric Finger Print scan
od16275/2019 attendance system with LCD/LED display & keypad & TCPIP LAN, USB
_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)	no	1.00000	5750.00	5750.00
MR	Installation charges	no	1.00000	1850.00	1850.00

TOTAL					7600.0
cost for one no					7600.0
Say					7600.0
Cost index 31.06 %					.00
Total with Cost index					7600.00
Say					7600.00

4 Specification Code: od16499/2019_2020

od16499/2019
_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
Total Cost of Materials					21.0
MR	Fixing charges	metre	1.00000	18.00	18.00
TOTAL					39.0
cost for one metre					39.0
Say					39.0
Cost index 31.06 %					.00
Total with Cost index					39.00
Say					39.00

5 Specification Code: od16178/2019_2020

od16178/2019 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP
_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.	no	1.00000	5650.00	5650.00
Total Cost of Materials					5650.0
MR	Wireman	no	1.00000	295.00	295.00
TOTAL					5945.0
cost for one no					5945.0
Say					5945.0
Cost index 31.06 %					.00
Total with Cost index					5945.00
Say					5945.00

6 Specification Code: od15526/2019_2020

od15526/2019 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC
_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	56.64	56.64
Total Cost of Materials					56.64

MR	Labour charges per meter	no	1.00000	21.24	21.24
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TOTAL					77.88
cost for one no					78.0
Say					78.0
Cost index 31.06 %					.00
Total with Cost index					78.00
Say					78.00

7 Specification Code: od15527/2019_2020

od15527/2019 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with
_2020 : 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	no	1.00000	1298.00	1298.00
MR	installation per unit	no	1.00000	295.00	295.00
TOTAL					1593.0
cost for one no					1593.0
Say					1593.0
Cost index 31.06 %					.00
Total with Cost index					1593.00
Say					1593.00

8 Specification Code: od16185/2019_2020

od16185/2019 Supply, installation, testing, and commissioning of LT Projector and roof mount for

_2020 : 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 31.06 %					.00
Total with Cost index					24590.00
Say					24590.00

Other Engineering Organisations

9 Specification Code: od16183/2019_2020

od16183/2019 Supply, installation, testing and commissioning of Promethean Board AB2T78
_2020 : 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 31.06 %	.00
Total with Cost index	34000.00
Say	34000.00

EXISTING SMART CLASSROOM ELECTRICAL & ELV WORKS	
1 Specification Code: od16499/2019_2020	

od16499/2019
_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
Total Cost of Materials					21.0
MR	Fixing charges	metre	1.00000	18.00	18.00
TOTAL					39.0
cost for one metre					39.0
Say					39.0
Cost index 31.06 %					.00
Total with Cost index					39.00
Say					39.00

2 Specification Code: od15497/2019_2020	
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od15497/2019
_2020 : Supply, Installation, Testing and commissioning Of 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

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 31.06 %					.00
Total with Cost index					7611.00
Say					7611.00

3 Specification Code: od16038/2019_2020

Other Engineering Organisations

od16038/2019_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	no	1.00000	7375.00	7375.00
Total Cost of Materials					7375.0
MR	Fixing charges	no	1.00000	1250.00	1250.00
TOTAL					8625.0
cost for one no					8625.0
Say					8625.0

Cost index 31.06 %	.00
Total with Cost index	8625.00
Say	8625.00

4 Specification Code: od16178/2019_2020

od16178/2019 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP
 _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.	no	1.00000	5650.00	5650.00
Total Cost of Materials					5650.0
MR	Wireman	no	1.00000	295.00	295.00
TOTAL					5945.0
cost for one no					5945.0
Say					5945.0
Cost index 31.06 %					.00
Total with Cost index					5945.00
Say					5945.00

5 Specification Code: od68413/2019_2020

od68413/2019 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour
 _2020 : monitor complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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MR	19" Flat Screen VGA colour monitor	each	1.00000	7500.00	7500.00
	Add Cartage@1.00				75.00
		total			7575.00
Total Cost of Materials					7575.0
MR701	Electrician	Day	0.66700	750.00	500.25

TOTAL		8075.25
Add CPOH @ 15%		1211.29
cost for one each		9287.0
Say		9287.0
Cost index 31.06 %		.00
Total with Cost index		9287.00
Say		9287.00

6 Specification Code: od15526/2019_2020

Other Engineering Organisations

od15526/2019 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC
_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	56.64	56.64
Total Cost of Materials					56.64
MR	Labour charges per meter	no	1.00000	21.24	21.24
TOTAL					77.88
cost for one no					78.0
Say					78.0
Cost index 31.06 %					.00
Total with Cost index					78.00

Say	78.00
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7 Specification Code: od15531/2019_2020

od15531/2019
_2020 : Supply, Installation, Testing and commissioning of XLR cables and connectors

Code	Description	Unit	Quantity	Rate	Amount
MR	XLR cables and connectors	no	1.00000	2212.50	2212.50
Total Cost of Materials					2212.5
MR	Labour charges per unit	no	1.00000	177.00	177.00
TOTAL					2389.5
cost for one no					2390.0
Say					2390.0
Cost index 31.06 %					.00
Total with Cost index					2390.00
Say					2390.00

8 Specification Code: od15537/2019_2020

Supply, Installation, Testing and commissioning of Distribution box for PA od15537/2019 distribution made out of 16 SWG CRCA sheet with lockable door arrangement
_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
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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.	no	1.00000	684.40	684.40
Total Cost of Materials					684.4
MR	Labour charges per unit	no	1.00000	295.00	295.00

TOTAL					979.4
cost for one no					979.0
Say					979.0
Cost index 31.06 %					.00
Total with Cost index					979.00
Say					979.00

Other Engineering Organisations

9 Specification Code: od16206/2019_2020

PRICE

SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO- od16206/2019 MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED _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	350W RMS MIXER AMPLIFIER	no	1.00000	25375.0 0	25375.00
Total Cost of Materials					25375.0
MR	Electrician	no	1.00000	2950.00	2950.00
TOTAL					28325.0

cost for one no	28325.0
Say	28325.0

Cost index 31.06 %	.00
Total with Cost index	28325.00
Say	28325.00

10 Specification Code: od15541/2019_2020

od15541/2019
_2020 : Supply, installation, testing and commissioning of LAN socket.

Code	Description	Unit	Quantity	Rate	Amount
MR	LAN Socket	no	1.00000	194.70	194.70
Total Cost of Materials					194.7
MR	Fixing charges per unit	no	1.00000	64.90	64.90
Other Engineering Organisations TOTAL					259.6
cost for one no					260.0
Say					260.0
Cost index 31.06 %					.00
Total with Cost index					260.00
Say					260.00

11 Specification Code: od15548/2019_2020

od15548/2019 Supply and installation of GI box for modular switch installation including base
_2020 : plate and front plate 1/2 M

Code	Description	Unit	Quantity	Rate	Amount
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MR	GI box for modular switch installation including base plate and front plate 1/2 M	no	1.00000	56.64	56.64
MR	Installation charge per unit	no	1.00000	177.00	177.00

TOTAL					233.64
cost for one no					234.0
Say					234.0
Cost index 31.06 %					.00
Total with Cost index					234.00
Say					234.00

12 Specification Code: od16275/2019_2020

Supply, installation, testing and commissioning of Bio Metric Finger Print scan od16275/2019 attendance system with LCD/LED display & keypad & TCPIP LAN, USB _2020 : Connectivity along with Attendance monitoring & report software (Web based Terminal) Other Engineering Organisations

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)	no	1.00000	5750.00	5750.00
MR	Installation charges	no	1.00000	1850.00	1850.00
TOTAL					7600.0
cost for one no					7600.0
Say					7600.0
Cost index 31.06 %					.00
Total with Cost index					7600.00
Say					7600.00

13 Specification Code: od15560/2019_2020

od15560/2019 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel
_2020 : Shuttered.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 I/O for Patch Panel Shuttered.	no	1.00000	194.70	194.70
Total Cost of Materials					194.7
MR	Fixing charges	no	1.00000	64.90	64.90
TOTAL					259.6
cost for one no					260.0
Say					260.0
Cost index 31.06 %					.00
Total with Cost index					260.00
Say					260.00

14 Specification Code: od16184/2019_2020

od16184/2019 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with
_2020 : 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	no	1.00000	1100.00	1100.00
Total Cost of Materials					1100.0
MR	Wireman	no	1.00000	250.00	250.00
TOTAL					1350.0

cost for one no	1350.0
Say	1350.0

Cost index 31.06 %	.00
Total with Cost index	1350.00
Say	1350.00

15 Specification Code: od15572/2019_2020

od15572/2019
_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	no	1.00000	84.00	84.00
TOTAL					84.0
cost for one no					84.0
Say					84.0
Cost index 31.06 %					.00
Total with Cost index					84.00
Say					84.00

16 Specification Code: od15574/2019_2020

od15574/2019
_2020 : SITC Of NVR 8 Channel for CCTV

Code	Description	Unit	Quantity	Rate	Amount
MR	SITC OF NVR 8 Channel	no	1.00000	8500.00	8500.00
TOTAL					8500.0

cost for one no	8500.0
Say	8500.0

Cost index 31.06 %	.00
Total with Cost index	8500.00
Say	8500.00

17 Specification Code: od16183/2019_2020

od16183/2019_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 31.06 %					.00
Total with Cost index					34000.00
Say					34000.00

18 Specification Code: od15582/2019_2020

od15582/2019_2020 : Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch Panel.

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 16 Port un loaded Patch Panel.	no	1.00000	800.00	800.00
Total Cost of Materials					800.0
MR	Labour charges per unit	no	0.25000	295.00	73.75
TOTAL					873.75
cost for one no					874.0
Say					874.0
Cost index 31.06 %					.00
Total with Cost index					874.00
Say					874.00

19 Specification Code: od15583/2019_2020

od15583/2019 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch
_2020 : Panel.

Other Engineering Organisations

Code	Description	Unit	Quantity	Rate	Amount
MR	Cat6 8 Port un loaded Patch Panel.	no	1.00000	400.00	400.00
Total Cost of Materials					400.0
MR	Labour per unit	no	0.25000	295.00	73.75
TOTAL					473.75
cost for one no					474.0
Say					474.0
Cost index 31.06 %					.00
Total with Cost index					474.00
Say					474.00

20 Specification Code: od15586/2019_2020

od15586/2019 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port
_2020 : Network Switch to provide networks and internet on class room etc.

Code	Description	Unit	Quantity	Rate	Amount
MR	10/100/1000 Mbps 8 Port Network Switch	no	1.00000	3245.00	3245.00
Total Cost of Materials					3245.0
MR	Labour charges per unit	no	1.00000	885.00	885.00
TOTAL					4130.0
cost for one no					4130.0
Say					4130.0
Cost index 31.06 %					.00
Total with Cost index					4130.00
Say					4130.00

21 Specification Code: od16221/2019_2020

od16221/2019 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE
_2020 : Switch.

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.	no	1.00000	13220.35	13220.35
Total Cost of Materials					13220.35
MR	Electrician	no	1.00000	1000.00	1000.00
TOTAL					14220.35
cost for one no					14220.0
Say					14220.0
Cost index 31.06 %					.00

Total with Cost index	14220.00
Say	14220.00

22 Specification Code: od15593/2019_2020

od15593/2019
_2020 : Supply, installation, testing and commissioning of 8 port PoE switch

Code	Description	Unit	Quantity	Rate	Amount
MR	Supply, installation, testing and commissioning of 8 port PoE switch	no	1.00000	6250.00	6250.00
TOTAL					6250.0
cost for one no					6250.0
Say					6250.0
Cost index 31.06 %					.00
Total with Cost index					6250.00
Say					6250.00

DG SET AND PANELS - ELECTRICAL WORKS

1 Specification Code: od15508/2019_2020

od15508/2019
_2020 : Supply of 35 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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MR795	35 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	240.00	240.00
	Add Cartage@1.00				2.40
	total				242.40

TOTAL	242.4
Add CPOH @ 15%	36.36
cost for one metre	279.0
Say	279.0
Cost index 31.06 %	.00
Total with Cost index	279.00
Say	279.00

Other Engineering Organisations

2 Specification Code: od15545/2019_2020

PRICE

od15545/2019_2020 : Supply of 50 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
MR796	50 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	310.00	310.00
	Add Cartage@1.00				3.10
	total				313.10

TOTAL	313.1
Add CPOH @ 15%	46.97
cost for one metre	360.0
Say	360.0

Cost index 31.06 %	.00
Total with Cost index	360.00
Say	360.00

3 Specification Code: od15549/2019_2020

od15549/2019 Supply of 95 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium
_2020 : 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
MR798	95 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	520.00	520.00
	Add Cartage@1.00				5.20
	total				525.20
TOTAL					525.2
Add CPOH @ 15%					78.78
cost for one metre					604.0
Say					604.0
Cost index 31.06 %					.00
Total with Cost index					604.00
Say					604.00

4 Specification Code: od68587/2019_2020

od68587/2019 SITC of 100 KVA DG set with standard control panel complete with all other
_2020 : accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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
MR701	Electrician	Day	10.0000 0	750.00	7500.00
MR720	Khalasi	Day	10.0000 0	750.00	7500.00
Other Engineering Organisations TOTAL					644230.0
Add CPOH @ 15%					96634.50
cost for one each set					740865.0
Say					740865.0
Cost index 31.06 %					.00
Total with Cost index					740865.00
Say					740865.00

5 Specification Code: od68588/2019_2020

od68588/2019 SITC of 11kV HT metering cubicle, weather proof for outdoor purpose with HT
_2020 : TOD meter, 11KV/110V 100VA PT , 10/5A, CT 15VA , Fuse unit, control wiring complete with all other accessories as required.

Code	Description	Unit	Quantity	Rate	Amount
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MR	HT Metering Cubicle Outdoor weather proof.	each	1.00000	23814.0 0	23814.00
	Add Cartage@1.00				238.14
	total				24052.14
MR	11KV/110V 100VA PT	each	1.00000	15524.0 0	15524.00
	Add Cartage@1.00				155.24
	total				15679.24
MR	10/5A, CT 15VA	each	2.00000	36594.0 0	73188.00
	Add Cartage@1.00				731.88
	total				73919.88
MR	HT TOD Meter	each	1.00000	18450.0 0	18450.00
	Add Cartage@1.00				184.50
	total				18634.50
MR	Fuse unit	each	1.00000	1800.00	1800.00
	Add Cartage@1.00				18.00
	total				1818.00
MR	Control wiring	each	1.00000	2250.00	2250.00
	Add Cartage@1.00				22.50
	Add Wastage@5.00				112.50
	total				2385.00
Total Cost of Materials					136488.76
MR719	Wireman Helper	Day	4.00000	600.00	2400.00
MR701	Electrician	Day	4.00000	750.00	3000.00

TOTAL					141888.76
Add CPOH @ 15%					21283.31
cost for one each					163172.0

	Say	163172.0
	Cost index	31.06 %
	Total with Cost index	163172.00
	Say	163172.00

6 Specification Code: od68590/2019_2020

SITC of MDB 1 (Koyilandy)
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 , od68590/2019 hinged door, interconnecting single core multi strand lugged copper wire having _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: - 160A TPN Isolator – 1 No.
Outgoing: - 100A 3P MCCB – 3 No., 63A 3P MCCB – 2 No., 32A 3P MCCB – 2 No.

Code	Description	Unit	Quantity	Rate	Amount
MR	160A, TPN Isolator (Make: ABB)	each	1.00000	8898.30	8898.30
	Add Cartage@1.00				88.98
	total				8987.28
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	30.0000 0	7.03	210.90
	Add Cartage@1.00				2.11
	Add Wastage@5.00				10.55

		total			223.55
MR733	35 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable	metre	3.60000	244.07	878.65
	Add Cartage@1.00				8.79
	Add Wastage@5.00				43.93
		total			931.37
MR734	50 sqmm ISI Marked FR LS PVC insulated single core copper conductor cable	metre	1.80000	349.15	628.47
	Add Cartage@1.00				6.28
	Add Wastage@5.00				31.42
		total			666.18
MR1738	Three phase Voltmeter accuracy class 0.5	each	1.00000	2344.07	2344.07
	Add Cartage@1.00				23.44
		total			2367.51
MR1740	Three phase Ammeter accuracy class 0.5	each	1.00000	2527.12	2527.12
	Add Cartage@1.00				25.27
		total			2552.39
MR1776	Voltmeter selector switch 6 A 3 Pole	each	1.00000	79.66	79.66
	Add Cartage@1.00				0.80
		total			80.46
MR1775	Ammeter selector switch 6A 3 Pole	each	1.00000	99.15	99.15
	Add Cartage@1.00				0.99
		total			100.14
MR1829	150/5 A, 5 VA, accuracy class 0.5, Resin Cast Metering CT	each	3.00000	720.34	2161.02
	Add Cartage@1.00				21.61

		total			2182.63
MR1586	Rotary handle (including BUC handle with door inter-lock defeat and pad lock facility) Up to 250A extended type	each	7.00000	1355.93	9491.51
	Add Cartage@1.00				94.92
		total			9586.43
1106	16 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	3.60000	102.36	368.50
	Add Cartage@1.00				3.68
	Add Wastage@5.00				18.42
		total			390.61
Total Cost of Materials					28068.55
90.14.10.4	Rate as per item number 90.14.10.4 of SH: OD Electrical	no	7.00000	6657.39	46601.73
90.14.1.2	Rate as per item number 90.14.1.2 of SH: OD Electrical	sqm	10.97100	2014.78	22104.15
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	697.50000	5.22	3640.95
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.75600	2566.96	1940.62
90.14.3.1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	25.18500	40.00	1007.40
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	1768.50000	3.00	5305.50
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	4.80000	796.52	3823.30
1001	Wireman	Day	2.00000	447.00	894.00
1007	Khallasi	Day	2.00000	368.00	736.00

TOTAL	35004.05
Add CPOH @ 15%	17118.33
cost for one no	131241.0
Say	131241.0

Cost index 31.06 %	1821.05
Total with Cost index	133062.05
Say	133062.05

7 Specification Code: od68591/2019_2020

od68591/2019
_2020 :

SITC of MSB (Koyilandy) 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 , busbar 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, surge protection device, 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: - 200A FP MCCB, Microprocessor Control -1No, 160A FP Isolator – 1 No. AMF relay, CT, RYB indicator, MFDM, etc. Busbar - 200A, Aluminium TP&N busbar
Outgoing: - 100A 3P MCCB – 7 No., 100A, 4P Isolator

Code	Description	Unit	Quantity	Rate	Amount
MR	100A, 4P Isolator (Make: ABB, Model:OT100F4N2)	no	1.00000	4915.25	4915.25

	Add Cartage@1.00				49.15
	total				4964.40
MR	160A, 4P Isolator (Make: ABB, Model:OT160EV04P)	each	1.00000	8898.31	8898.31
	Add Cartage@1.00				88.98
	total				8987.29
MR1735	multifunction meter to read VA ,PF,KW ,KWh ,KVA,KVAr ,KVARh ,THD ,Phase angle -3ph accuracy class-0.5 LCD	each	2.00000	7586.44	15172.88
	Add Cartage@1.00				151.73
	total				15324.61
MR	200A, 4P 50kA MCCB (Make :L&T)	each	1.00000	11440.6 8	11440.68
	Add Cartage@1.00				114.41
	total				11555.09
MR1831	200/5 A, 5 VA, accuracy class 0.5, Resin Cast Metering CT	each	6.00000	720.34	4322.04
	Add Cartage@1.00				43.22
	total				4365.26
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	45.0000 0	7.03	316.35
	Add Cartage@1.00				3.16
	Add Wastage@5.00				15.82
	total				335.33
MR	AMF relay (Make: C&S)	each	1.00000	16101.7 0	16101.70
	Add Cartage@1.00				161.02
	total				16262.72
MR	200A, 4P Contactor (Make: ABB)	each	2.00000	21186.4 4	42372.88

	Add Cartage@1.00				423.73
	total				42796.61
MR	Auxiliary control contactor 2NO 2NC (Make: ABB)	each	2.00000	1015.00	2030.00
	Add Cartage@1.00				20.30
	total				2050.30
MR1586	Rotary handle (including BUC handle with door inter-lock defeat and pad lock facility) Up to 250A extended type	each	8.00000	1355.93	10847.44
	Add Cartage@1.00				108.47
	total				10955.91
Total Cost of Materials					117597.52
90.14.10 .5	Rate as per item number 90.14.10.5 of SH: OD Electrical	no	7.00000	9336.52	65355.64
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	450.000 00	5.22	2349.00
90.14.2. 1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.84000	2566.96	2156.25
90.14.3. 1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	13.8000 0	40.00	552.00
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	3001.50 000	3.00	9004.50
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	4.80000	796.52	3823.30
1001	Wireman	Day	2.00000	447.00	894.00
1007	Khallasi	Day	2.00000	368.00	736.00
90.14.1. 2	Rate as per item number 90.14.1.2 of SH: OD Electrical	sqm	11.6265 0	2014.78	23424.84

TOTAL	128232.03
Add CPOH @ 15%	33883.96
cost for one each	259777.0
Say	259777.0

Cost index 31.06 %	1728.80
Total with Cost index	261505.80
Say	261505.80

8 Specification Code: od68881/2019_2020

od68881/2019
_2020 :

SITC of 35KVAR APFC Panel - 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.
Incomer: 125A, TPN Isolator
Outgoing: 40A, TP MCB - 1 no., 16A, 3P MCB - 4 no.
15KVAR capacitor - 1 no., 5KVAR capacitor - 3 no. Directly connected capacitor 5 KVAR - 1 no with required capacitor duty contactors and 8 stage relay IPFC.

Code	Description	Unit	Quantity	Rate	Amount
1105	10 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	metre	15.0000 0	66.43	996.45
	Add Cartage@1.00				9.96

	Add Wastage@5.00				49.82
	total				1056.24
MR731	1.0 sqmm ISI marked FR LS PVC insulated single core copper conductor cable	metre	40.0000 0	7.03	281.20
	Add Cartage@1.00				2.81
	Add Wastage@5.00				14.06
	total				298.07
MR1884	Blue colour LED indicator, AC/DC, 22.5 mm cut out dia	each	13.0000 0	67.80	881.40
	Add Cartage@1.00				8.81
	total				890.21
MR1740	Three phase Ammeter accuracy class 0.5	each	1.00000	2527.12	2527.12
	Add Cartage@1.00				25.27
	total				2552.39
MR1775	Ammeter selector switch 6A 3 Pole	each	1.00000	99.15	99.15
	Add Cartage@1.00				0.99
	total				100.14
MR1738	Three phase Voltmeter accuracy class 0.5	each	1.00000	2344.07	2344.07
	Add Cartage@1.00				23.44
	total				2367.51
MR1775	Ammeter selector switch 6A 3 Pole	each	1.00000	99.15	99.15
	Add Cartage@1.00				0.99
	total				100.14
MR1823	50/5 to 75/5 A, 5 VA, accuracy class 3, Resin Cast Metering CT	each	3.00000	818.64	2455.92
	Add Cartage@1.00				24.56
	total				2480.48

MR1926	5KVAR , Metalised poly propeline capacitor standard duty, 440V Box type.	each	4.00000	915.25	3661.00
	Add Cartage@1.00				36.61
	total				3697.61
MR1931	15KVAR , Metalised poly propeline capacitor standard duty, 440V Box type.	each	1.00000	2745.76	2745.76
	Add Cartage@1.00				27.46
	total				2773.22
MR1638	3 Pole Capacitor duty contactors for switching capacitor banks 4 - 7 kVAR with AC Coil,	each	4.00000	1016.95	4067.80
	Add Cartage@1.00				40.68
	total				4108.48
MR1640	3 Pole Capacitor duty contactors for switching capacitor banks 11 - 15 kVAR with AC Coil,	each	1.00000	1423.73	1423.73
	Add Cartage@1.00				14.24
	total				1437.97
MR1961	8 stage 440 / 110 V 5A/1A , Intelligent Power Factor Controllers (IPFC)	each	1.00000	8644.07	8644.07
	Add Cartage@1.00				86.44
	total				8730.51
Total Cost of Materials					30592.97
90.14.1.2	Rate as per item number 90.14.1.2 of SH: OD Electrical	sqm	13.57000	2014.78	27340.56
90.14.7	Rate as per item number 90.14.7 of SH: OD Electrical	Cum cm	630.00000	5.22	3288.60
90.14.2.1	Rate as per item number 90.14.2.1 of SH: OD Electrical	sqm	0.31500	2566.96	808.59
90.14.3.1	Rate as per item number 90.14.3.1 of SH: OD Electrical	metre	31.74000	40.00	1269.60

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	1920.00 000	3.00	5760.00
90.14.4	Rate as per item number 90.14.4 of SH: OD Electrical	metre	4.90000	796.52	3902.95
2.10.1	Rate as per item number 2.10.1 of SH: MCCB, MCB & DBS	each	9.00000	150.43	1353.87
MR701	Electrician	Day	5.00000	750.00	3750.00
1001	Wireman	Day	8.00000	447.00	3576.00

	TOTAL	43678.96
	Add CPOH @ 15%	12246.47
	cost for one each	93888.0
	Say	93888.0
	Cost index 31.06 %	3193.90
	Total with Cost index	97081.90
	Say	97081.90

SIGNAGE AND BOARDS

1 Specification Code: od16311/2019_2020

**od16311/2019_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 XI 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.
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	15600.00	15600.00
TOTAL					15600.00
cost for one each					15600.00
	say				15600.00

	Add Water Charges @ 1.0%				156.00
	Add CPOH @ 15.0%				2363.40
	Cost index 31.06 %				0.00
	Total with Cost index				18119.40
	Say				18119.40

2 Specification Code: od16312/2019_2020

Other Engineering Organisations

od16312/2019_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	sqm	1.00000	3100.00	3100.00
TOTAL					3100.00
	cost for 10000.0 sqcm				3100.00
	cost for one sqcm				0.31
	say				0.31

	Add Water Charges @ 1.0%				0.00
	Add CPOH @ 15.0%				0.04
	Cost index 31.06 %				0.00
	Total with Cost index				0.36
	Say				0.36

3 Specification Code: od16314/2019_2020

od16314/2019_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	Supply of signage board 	sqm	1.00000	5000.00	5000.00
MR	Fixing Accessories 	sqm	1.00000	500.00	500.00
MR	Labour	sqm	1.00000	750.00	750.00
				TOTAL	6250.00
	cost for 10000.0 sqcm				6250.00
	cost for one sqcm				0.63
	say				0.63

	Add Water Charges @ 1.0%				0.00
	Add CPOH @ 15.0%				0.09
	Cost index 31.06 %				0.00
	Total with Cost index				0.74
	Say				0.74

4 Specification Code: od16315/2019_2020

od16315/2019_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	Supply	sqm	1.00000	2450.00	2450.00
MR	Fixing Charges	sqm	1.00000	1250.00	1250.00
TOTAL					3700.00
	cost for 10000.0 sqcm				3700.00
	cost for one sqcm				0.37
	say				0.37

	Add Water Charges @ 1.0%				0.00
	Add CPOH @ 15.0%				0.05
	Cost index 31.06 %				0.00
	Total with Cost index				0.43
	Say				0.43

5 Specification Code: od19356/2019_2020

od19356/2019_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	SUPPLY	cm	1.00000	30.00	30.00

MR	Fixing Charges	cm	1.00000	1.00	1.00
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TOTAL					31.00
cost for one cm					31.00
	say				31.00

	Add Water Charges @ 1.0%				0.31
	Add CPOH @ 15.0%				4.69
	Cost index 31.06 %				-0.01
	Total with Cost index				36.01
	Say				36.01

6 Specification Code: od16316/2019_2020

od16316/2019_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	Supply	sqm	1.00000	6500.00	6500.00
MR	Fixing Charges	sqm	1.00000	800.00	800.00
TOTAL					7300.00
	cost for 10000.0 sqcm				7300.00
	cost for one sqcm				0.73
	say				0.73

	Add Water Charges @ 1.0%				0.00
	Add CPOH @ 15.0%				0.11

	Cost index 31.06 %				0.00
	Total with Cost index				0.85
	Say				0.85

7 Specification Code: od16317/2019_2020

od16317/2019_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	Supply	sqm	1.00000	900.00	900.00
MR	Fixing Charges	sqm	1.00000	300.00	300.00
TOTAL					1200.00
cost for one sqm					1200.00
	say				1200.00

	Add Water Charges @ 1.0%				12.00
	Add CPOH @ 15.0%				181.80
	Cost index 31.06 %				0.00
	Total with Cost index				1393.80
	Say				1393.80