## TS Register No: 1276/2019-2020 AS Register No:666/2019-2020 UP-GRADATION OF GOVT ITI MALAMPUZHA ON PAR WITHINTERNATIONALSTANDARDS-OTHER INFRASTRUCTURAL FACILITIES ANDSERVICES, PHASE-1, REV-2

Abstract Estimate

(Dsor year: 2016,Cost Index Applied for this estimate is 31.06%)

	1 EXISTING CLASS ROOM CONVERTED TO SMART CL	ASS ROOM
1	od19452/2019_2020 Supply,deliver and place Trademark registered branded (JALARA Executive Visitor Net Chair, Overall Size (approx): H-98 x W-58 x (cm) Frame structure: Backrest made of Mesh and Seat from hot thickness of ergonomic design to avoid back pain. Chrome-plated A average weight required 400 to 490 gms per sq. mtr. br>Tapestry w test, ultra violet test,glue test and color fastening with average wei 	x D-63.5 (cm) Seat Height: 48 mould plywood of minimum 12 mn Arm & Frame 'Tapestry: Minimun will be tested quality such as stair ght of 450 grams per square mete age thickness of foam not less
	Net Total Quantity	16.000 each
	Say 16.000 each @ Rs 13013.68 / each	Rs 208218.88
	Supply deliver and place Trademark registered branded (JALARAM M Seater Desk Cum Bench fitted on tubular frame with perfore Students. Overall size : H-760 × W-1040 × D-1000 (mm) (Curvica) of 25 mm thick wood based high quality branded (TESA) p Board (PLB )with 0.6mm laminated with 2mm PVC beading by hot edges. Bench Main frame tube & Support tube of 32mm, 16swg E frame tube of 19mm, 16swg ERW round tube. Seat & Back supp square ERW tube. Seat & Back of 18swg. Perforated CRCA shee 18swg. Perforated CRCA sheet IS 513. br>Good quality PVC shoes	ated seat and back for Senio Seat Height: 460 mm Desk Top ost formed Pre-laminated Particle t melt glue process all over 4 ERW round tube. Seat & Back ort of 25x25x1.6mm (16swg) thick eet IS 513. Storage Bucket o
	polyester powder coated to the thickness not less than 50 microns fini and B grade phosphating.	
	polyester powder coated to the thickness not less than 50 microns fini	
	polyester powder coated to the thickness not less than 50 microns fini and B grade phosphating.	sh after 10 tank anti-rust treatmen

	Net Total Quantity	16.000 each
	Say 16.000 each @ Rs 8239.56 / each	Rs 131832.96
4	od19471/2019_2020	
	Sypply and installation of Podium : 600x600x 1200mm ht.	
	Net Total Quantity	16.000 each
	Say 16.000 each @ Rs 19686.26 / each	Rs 314980.16
5	14.46 Removing dry or oil bound distemper, water proofing cement pain papering and preparing the surface smooth including necessary re	• • • •
	Net Total Quantity	1738.739 sqm
	Say 1738.739 sqm @ Rs 14.15 / sqm	Rs 24603.16
6	14.53.1 Wall painting with plastic emulsion paint of approved brand and manu or more coats on old work	facture to give an even shade:O
	Net Total Quantity	1738.739 sqm
	Say 1738.739 sqm @ Rs 72.41 / sqm	Rs 125902.09
7	14 54 1	
7	14.54.1 Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other Engineering Net Total Quantity	
7	Painting with synthetic enamel paint of approved brand and manufa	
8	Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other EngineeringNet Total Quantity	Rs 11798.87 Rs 11798.87 Pecified by the manufacturer), w proved brand & manufacturer, in high polymer modified quick set t ickness, including grouting of joir
	Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other EngineeringNetTotal Quantity Say 175.500 sqm @ Rs 67.23 / sqm 11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be s water absorption less than 0.08% and conforming to IS : 15622, of ap colours and shade, in skirting, riser of steps, laid with cement based f adhesive (water based) conforming to IS : 15477, in average 6 mm th	Rs 11798.87 Rs 11798.87 Pecified by the manufacturer), w proved brand & manufacturer, in high polymer modified quick set t ickness, including grouting of joir
	Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other EngineeringNetTotal Quantity Say 175.500 sqm @ Rs 67.23 / sqm 11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be s water absorption less than 0.08% and conforming to IS : 15622, of ap colours and shade, in skirting, riser of steps, laid with cement based f adhesive (water based) conforming to IS : 15477, in average 6 mm th (Payment for grouting of joints to be made separately).Size of Tile 600	<b>Rs 11798.87</b> <b>Rs 11798.87</b> Pecified by the manufacturer), w proved brand & manufacturer,in high polymer modified quick set t ickness, including grouting of joir 0x600 mm
	Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other EngineeringNetTotal Quantity Say 175.500 sqm @ Rs 67.23 / sqm 11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be s water absorption less than 0.08% and conforming to IS : 15622, of ap colours and shade, in skirting, riser of steps, laid with cement based f adhesive (water based) conforming to IS : 15477, in average 6 mm th (Payment for grouting of joints to be made separately).Size of Tile 600 Net Total Quantity	Rs 11798.87 Rs 11798.87 Pecified by the manufacturer), wi proved brand & manufacturer, in high polymer modified quick set t ickness, including grouting of join 0x600 mm 590.662 sqm
	Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work Other EngineeringNetTotal Quantity Say 175.500 sqm @ Rs 67.23 / sqm 11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be s water absorption less than 0.08% and conforming to IS : 15622, of ap colours and shade, in skirting, riser of steps, laid with cement based f adhesive (water based) conforming to IS : 15477, in average 6 mm th (Payment for grouting of joints to be made separately).Size of Tile 600 Net Total Quantity Say 590.662 sqm @ Rs 1625.93 / sqm	1175.500 sqm         Rs 11798.87         pecified by the manufacturer), we proved brand & manufacturer, in high polymer modified quick set to ickness, including grouting of join 0x600 mm         590.662 sqm         Rs 960375.07         er of 8 to 12 tonne capacity after and consolidating with road roll
8	Painting with synthetic enamel paint of approved brand and manufaceven shade:One or more coats on old work         Other Engineering Net Total Quantity         Say 175.500 sqm @ Rs 67.23 / sqm         11.47.2         Providing and laying Vitrified tiles in different sizes (thickness to be swater absorption less than 0.08% and conforming to IS : 15622, of approved brand shade, in skirting, riser of steps, laid with cement based by adhesive (water based) conforming to IS : 15477, in average 6 mm the (Payment for grouting of joints to be made separately).Size of Tile 600         Net Total Quantity         Say 590.662 sqm @ Rs 1625.93 / sqm         16.1         Preparation and consolidation of sub grade with power road rolled excavating earth to an average of 22.5 cm depth, dressing to cambe including making good the undulations etc. and re-rolling the sub grade	1175.500 sqm         Rs 11798.87         pecified by the manufacturer), we proved brand & manufacturer, in high polymer modified quick set to ickness, including grouting of join 0x600 mm         590.662 sqm         Rs 960375.07         er of 8 to 12 tonne capacity after and consolidating with road roll

2	16.78.3		
	Construction of granular sub- base by Providing close graded Mat	erial conforming to specificatior	
	mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all lead		
	& lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface an		
	compacting with vibratory power roller to achieve the desired density, complete as per specifications an		
	directions of Engineer-in- Charge.With material conforming to Grade	- III ( size range 26.5 mm to 0.0	
	mm) having CBR Value - 20	1	
	Net Total Quantity	414.300 cum	
	Say 414.300 cum @ Rs 2531.42 / cum	Rs 1048767.31	
3	16.79		
	Providing , laying spreading and compacting graded stone aggregate (	size range 53 mm to 0.075 mm)	
	wet mix macadam (WMM) specification including premixing the materi	al with water at OMC in mechanic	
	mix plant, carriage of mixed material by tipper to site, for all leads &	lifts, laying in uniform layers w	
	mechanical paver finisher in sub - base / base course on well prep		
	vibratory roller of 8 to 10 tonne capacity to achieve the desired dens	ity, complete as per specificatio	
	and directions of Engineer - in- Charge.		
	Net Total Quantity	621.450 cum	
	Say 621.450 cum @ Rs 2794.53 / cum	Rs 1736660.67	
4	51.16.PC.1pb		
	Primer Coat - Bitumen Emulsion (SS-1) - Using Packed Bitumen Rates	3	
	Providing and applying primer coat with bitumen emulsion (SS-1) on	prepared surface of granular ba	
	including cleaning of road surface and spraying primer at the rate of 0 means as per Technical Specification Clause 502 (low porosity).	0.70 - 1.0 kg/sqm using mechanic	
	Net Total Quantity	4143.000 sqm	
	Say 4143.000 sqm @ Rs 61.66 / sqm	Rs 255457.38	
5	od19480/2019_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 m	
	size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per	cum of stone chippings of 13.2 m	
	and 11.2 mm size respectively, including a tack coat with hot straight r	un bitumen, including consolidati	
	with road roller of 6 to 9 tonne capacity etc. complete ( tack coat to b	e paid for separately): With pavi	
	Asphalt grade VG - 10 heated and then mixed with solvent at the rate	of 70 grams per kg of asphalt (DS	
	ITEM NO.16.33.1)	Ι	
	Net Total Quantity	4143.000 sqm	
	Say 4143.000 sqm @ Rs 222.31 / sqm	Rs 921030.33	
6	51.16.31.1.2		
	Tack Coat - RS Bitumen Emulsion - On bituminous surface @ 0.25 kg	/sqm	
	Providing and applying tack coat using bitumen emulsion conform	ning to IS : 8887, using emulsi	
	pressure distributor including preparing the surface & cleaning wi	th mechanical broom.	
	1. With Rapid Setting Bitumen Emulsion		
	2. On bituminous surface @ 0.25 kg /sqm		
	Net Total Quantity	4143.000 sqm	

	Say 4143.000 sqm @ Rs 11.35 / sqm	Rs 47023.05
7	od19487/2019_2020 Providing and laying seal coat of premixed fine aggregate (passing 2. sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen cum of fine aggregate per 100 sqm of road surface, including rollin complete.(DSR ITEM NO 16.40)	per cum of fine aggregate and 0.6
	Net Total Quantity	4143.000 sqm
	Say 4143.000 sqm @ Rs 77.97 / sqm	Rs 323029.71
8	od19491/2019_2020 Providing and laying average 100 mm thick sub grade of compacted stone aggregate mixed with sand Zone V, including spreading, well ra smooth etc. all complete as per direction of Engineer-in-charge.	
	Net Total Quantity	32.231 sqm
	Say 32.231 sqm @ Rs 256.99 / sqm	Rs 8283.04
9	16.42 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone a	aggregate 40 mm nominal size)
	pavements, laid to required slope and camber in panels as required ir tamping complete	ncluding consolidation finishing ar
		ncluding consolidation finishing ar 32.231 cum
	tamping complete	È.
10	tamping complete Net Total Quantity	32.231 cum Rs 232491.23
10	tamping complete Net Total Quantity Say 32.231 cum @ Rs 7213.28 / cum	32.231 cum Rs 232491.23
10	tamping complete       Net Total Quantity         Say 32.231 cum @ Rs 7213.28 / cum         16.45       Other Engineering Organisation	32.231 cum Rs 232491.23
	tamping complete         Net Total Quantity         Say 32.231 cum @ Rs 7213.28 / cum         16.45         Other Engineering Organisation         Providing and fixing in position pre- moulded joint filler in expansion joint	32.231 cum Rs 232491.23 MS nts. 150.000 per cm depth per cm width per meter length
	tamping complete Net Total Quantity Say 32.231 cum @ Rs 7213.28 / cum 16.45 Providing and fixing in position pre-moulded joint filler in expansion joi Net Total Quantity 150.000 per cm depth per cm width per meter length @ Rs 2.88 / per cm	32.231 cum Rs 232491.23 TS nts. 150.000 per cm depth per cm width per meter length Rs 432.00 standards) of size 300x300x9.8m 522 of approved make in all colou modals location etc., laid on 20m es & patterns including grouting th
Say	tamping complete         Net Total Quantity         Say 32.231 cum @ Rs 7213.28 / cum         16.45         Other Engineering Organisation         Providing and fixing in position pre-moulded joint filler in expansion join         Net Total Quantity         150.000 per cm depth per cm width per meter length @ Rs 2.88 / per cm depth per cm width per meter length         150.000 per cm depth per cm width per meter length @ Rs 2.88 / per cm depth per cm width per meter length         16.90         Providing and laying tactile tile (for vision impaired persons as per shaving with water absorption less than 0.5% and conforming to IS: 156 and shades in for outdoor floors such as footpath, court yard, multi r thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shap joints with white cement mixed with matching pigments etc. completee	32.231 cum Rs 232491.23 Rs 232491.23 Rs nts. 150.000 per cm depth per cm width per meter length Rs 432.00 standards) of size 300x300x9.8m 522 of approved make in all colou modals location etc., laid on 20m es & patterns including grouting th

12	16.69 Providing and laying at or near ground level factory made kerb stone position to the required line, level and curvature jointed with cemen sand), including making joints with or without grooves (thickness of jo to more than 5 mm), including making drainage opening wherever req of Engineer-in-charge (length of finished kerb edging shall be meas kerb stone shall be approved by Engineer-in-Charge)	t mortar 1:3 ( 1 cement : 3 coarse bints except at sharp curve shall not uired complete etc. as per direction
	Net Total Quantity	48.347 cum
	Say 48.347 cum @ Rs 6569.58 / cum	Rs 317619.48
13	od19531/2019_2020 two coats after filling the surface with synthetic enamel paint in all s surfaces	shades on new plastered concrete
	Net Total Quantity	128.924 sqm
	Say 128.924 sqm @ Rs 88.78 / sqm	Rs 11445.87
14	od19532/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointink kgf/cm2	ng and make good, 110 mm pipe 4
	Net Total Quantity	494.000 metre
	Say 494.000 metre @ Rs 221.92 / metre	Rs 109628.48
15	od70505/2019_2020 Construct foundation for lighting pole using M30 concrete of over M20x75cm long anchor bolt set in concrete using 4mm thick and specification. Net Total Quantity	115
16	Say 30.000 each @ Rs 10154.28 / each od19534/2019_2020 Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of ave x 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as	-
	Net Total Quantity	818.000 metre
	Say 818.000 metre @ Rs 5346.88 / metre	Rs 4373747.84
	3 LAND DEVELOPMENT FOR MAIN BUILDING AND PL	AYGROUND
1	<ul> <li>2.31</li> <li>Clearing jungle including uprooting of rank vegetation, grass, brush w to 30 cm measured at a height of 1 m above ground level and remov m outside the periphery of the area cleared</li> </ul>	
	Net Total Quantity	4600.000 sqm
	Say 4600.000 sqm @ Rs 9.44 / sqm	Rs 43424.00

2	2.33.1	
	Felling trees of the girth (measured at a height of 1 m above ground le	evel) including cutting of trunks a
	branches, removing the roots and stacking of serviceable materi	al and disposal of unservicea
	material.Beyound 30 cm girth up to and including 60 cm girth	
	Net Total Quantity	4.000 each
	Say 4.000 each @ Rs 287.28 / each	Rs 1149.12
3	2.33.2	
	Felling trees of the girth (measured at a height of 1 m above ground le	,
	branches, removing the roots and stacking of serviceable materi	al and disposal of unservicea
	material.Beyound 60 cm girth up to and including 120 cm girth	
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 1274.82 / each	Rs 1274.82
4	2.33.3	
	Felling trees of the girth (measured at a height of 1 m above ground le	evel) including cutting of trunks a
	branches, removing the roots and stacking of serviceable materi	, , ,
	material.Beyond 120 cm girth up to and including 240 cm girth	
	Net Total Quantity	4.000 each
	Say 4.000 each @ Rs 5903.27 / each	Rs 23613.08
		KS 23013.00
5		RS 23013.00
5	2.2.1	
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye	rs not exceeding 20 cm in dep
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo	rs not exceeding 20 cm in dep oden or steel rammers, and rol
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50
5	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1	rs not exceeding 20 cm in dep orden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b>
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments pund depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil
	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. Net Total Quantity	rs not exceeding 20 cm in dep ooden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil 15690.000 sqm
6	2.2.1 Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wo every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up gro and lift up to 1.5 m:All kinds of soil Net Total Quantity Say 450.000 cum @ Rs 560.81 / cum 2.28.1 Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m. Net Total Quantity Say 15690.000 sqm @ Rs 18.28 / sqm	rs not exceeding 20 cm in dep orden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil 15690.000 sqm <b>Rs 286813.20</b>
6	2.2.1         Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or wore every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up growth and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 450.000 cum @ Rs 560.81 / cum         2.28.1       Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.         Net Total Quantity         Say 15690.000 sqm @ Rs 18.28 / sqm         4.1.8       4.1.8	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil 15690.000 sqm <b>Rs 286813.20</b> excluding the cost of centering a
6	2.2.1         Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or we every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up growth and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 450.000 cum @ Rs 560.81 / cum         2.28.1         Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.         Net Total Quantity         Say 15690.000 sqm @ Rs 18.28 / sqm         4.1.8         Providing and laying in position cement concrete of specified grade of the grade	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil 15690.000 sqm <b>Rs 286813.20</b> excluding the cost of centering a
6	2.2.1         Earth work in rough excavation, banking excavated earth in laye breaking clods, watering, rolling each layer with 1/2 tonne roller or word every 3rd and top-most layer with power roller of minimum 8 tonnes a roads, flood banks, marginal banks and guide banks or filling up grow and lift up to 1.5 m:All kinds of soil         Net Total Quantity         Say 450.000 cum @ Rs 560.81 / cum         2.28.1       Surface dressing of the ground including removing vegetation and deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.         Net Total Quantity         Say 15690.000 sqm @ Rs 18.28 / sqm         4.1.8       Providing and laying in position cement concrete of specified grade of shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse says and say	rs not exceeding 20 cm in dep poden or steel rammers, and roll nd dressing up in embankments ound depressions, lead up to 50 450.000 cum <b>Rs 252364.50</b> in-equalities not exceeding 15 All kinds of soil 15690.000 sqm <b>Rs 286813.20</b> excluding the cost of centering a

	7.1.1 Random rubble masonry with hard stone in foundation and plinth i	including levelling up with ceme
	concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggrega	• • •
	level with:Cement mortar 1:6 (1 cement : 6 coarse sand)	, , , ,
	Net Total Quantity	196.875 cum
	Say 196.875 cum @ Rs 5197.64 / cum	Rs 1023285.38
9	5.1.2 Providing and laying in position specified grade of reinforced ceme centering, shuttering, finishing and reinforcement - All work up to plinth sand :3 graded stone aggregate 20 mm nominal size	
	Net Total Quantity	13.125 cum
	Say 13.125 cum @ Rs 8145.84 / cum	Rs 106914.15
10	5.22.6	
	Steel reinforcement for R.C.C work including straightening, cutting binding all complete upto plinth levelThermo - Mechanically Treate	
	Net Total Quantity	4687.500 kilogram
	Say 4687.500 kilogram @ Rs 74.18 / kilogram	Rs 347718.75
		100
	A EXTERNAL WATER SUDDLY	
	4 EXTERNAL WATER SUPPLY	2
1	4 EXTERNAL WATER SUPPLY 50.18.9.6.1	
1		
1	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one s	
1	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one s refilling & testing of joints complete as per direction of Engineer in Ch	arge. 50 mm dia 10Kgf/cm2
	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one so refilling & testing of joints complete as per direction of Engineer in Ch Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre	arge. 50 mm dia 10Kgf/cm2 20.000 metre
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one s refilling & testing of joints complete as per direction of Engineer in Ch Net Total Quantity	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40
	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one since in the since of the s	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40
	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one since in the sing of joints complete as per direction of Engineer in Cheneric Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre 18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approvidence in the single set of the single set	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 r
	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one since in the sing of joints complete as per direction of Engineer in Chenerical Action Structures Say 20.000 metre @ Rs 224.52 / metreside in the single structure i	arge. 50 mm dia 10Kgf/cm2 20.000 metre <b>Rs 4490.40</b> ved quality (screwed end) :65 r 1.000 each
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one since in the second secon	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 r 1.000 each Rs 1686.48
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one significant of Engineer in Characteria Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre 18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approvide nominal bore Net Total Quantity Say 1.000 each @ Rs 1686.48 / each 18.32.1	arge. 50 mm dia 10Kgf/cm2 20.000 metre <b>Rs 4490.40</b> ved quality (screwed end) :65 r 1.000 each <b>Rs 1686.48</b> n cement mortar 1:4 (1 cement
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one since in the set of the set	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 m 1.000 each Rs 1686.48 n cement mortar 1:4 (1 cement (inside) with hinged cover fixed
2	50.18.9.6.1         Providing and fixing PVC pipes includings jointing of pipes with one size refilling & testing of joints complete as per direction of Engineer in Ch         Net Total Quantity         Say 20.000 metre @ Rs 224.52 / metre         18.17.5         Providing and fixing gun metal gate valve with C.I. wheel of approximation nominal bore         Net Total Quantity         Say 1.000 each @ Rs 1686.48 / each         18.32.1         Constructing masonry chamber 30x30x50 cm inside, in brick work in coarse sand) for stop cock, with C.I. surface box 100x100x75 mm	arge. 50 mm dia 10Kgf/cm2 20.000 metre <b>Rs 4490.40</b> ved quality (screwed end) :65 m 1.000 each <b>Rs 1686.48</b> n cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nomi
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one size refilling & testing of joints complete as per direction of Engineer in Ch Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre 18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approximation nominal bore Net Total Quantity Say 1.000 each @ Rs 1686.48 / each 18.32.1 Constructing masonry chamber 30x30x50 cm inside, in brick work in coarse sand) for stop cock, with C.I. surface box 100x100x75 mm cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 grade	arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 m 1.000 each Rs 1686.48 n cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nomi ent : 5 fine sand : 10 graded store
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one size refilling & testing of joints complete as per direction of Engineer in Ch Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre 18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approvide nominal bore Net Total Quantity Say 1.000 each @ Rs 1686.48 / each 18.32.1 Constructing masonry chamber 30x30x50 cm inside, in brick work in coarse sand) for stop cock, with C.I. surface box 100x100x75 mm cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 grader size), i/c necessary excavation, foundation concrete 1:5:10 (1 ceme	Arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 m 1.000 each Rs 1686.48 n cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nomi ent : 5 fine sand : 10 graded sto ortar 1:3 (1 cement : 3 coarse san
2	50.18.9.6.1         Providing and fixing PVC pipes includings jointing of pipes with one size refilling & testing of joints complete as per direction of Engineer in Ch         Net Total Quantity         Say 20.000 metre @ Rs 224.52 / metre         18.17.5         Providing and fixing gun metal gate valve with C.I. wheel of approximation nominal bore         Net Total Quantity         Say 1.000 each @ Rs 1686.48 / each         18.32.1         Constructing masonry chamber 30x30x50 cm inside, in brick work in coarse sand) for stop cock, with C.I. surface box 100x100x75 mm cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 grade size), i/c necessary excavation, foundation concrete 1:5:10 (1 cemer aggregate 40 mm nominal size) and inside plastering with cement model	Arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 m 1.000 each Rs 1686.48 n cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nominent : 5 fine sand : 10 graded stoord s
2	50.18.9.6.1 Providing and fixing PVC pipes includings jointing of pipes with one significant of Engineer in Character Net Total Quantity Say 20.000 metre @ Rs 224.52 / metre 18.17.5 Providing and fixing gun metal gate valve with C.I. wheel of approximation nominal bore Net Total Quantity Say 1.000 each @ Rs 1686.48 / each 18.32.1 Constructing masonry chamber 30x30x50 cm inside, in brick work in coarse sand) for stop cock, with C.I. surface box 100x100x75 mm cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 grades size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement aggregate 40 mm nominal size) and inside plastering with cement models and the size of the size	Arge. 50 mm dia 10Kgf/cm2 20.000 metre Rs 4490.40 ved quality (screwed end) :65 m 1.000 each Rs 1686.48 n cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nominent : 5 fine sand : 10 graded stoord s

4	od19461/2019_2020	
	Extra over for Providing and laying cement concrete 1:5:10 (1 cement	t : 5 coarse sand : 10 graded stor
	aggregate 40 mm nominal size) all - round underground PVC pipes. Net Total Quantity	9.245 cum
	Say 9.245 cum @ Rs 5516.39 / cum	Rs 50999.03
5	od19504/2019_2020 Providing and fixing PVC pipes includings of pipes with one step P refilling & testing of joints complete as per direction of Engineer in	•
	Net Total Quantity	60.000 metre
	Say 60.000 metre @ Rs 365.41 / metre	Rs 21924.60
6	od19507/2019_2020 Providing and fixing PVC pipes includings jointing of pipes with one si refilling & testing of joints complete as per direction of Engineer in Ch	
	Net Total Quantity	360.000 metre
	Say 360.000 metre @ Rs 270.74 / metre	Rs 97466.40
7	od19509/2019_2020 Supply, fixing, testing , commissioning 65mm dia Butterfly valve (Ma rubber seal and O-ring P16 pressure rating for water circulation as s	
	Net Total Quantity	3.000 each
	Other Say 3,000 each @ Rs 3896,44 / each	Rs 11689.32
8	od19513/2019_2020 Supply ,Installation testing and commissioning of Kirloskar make equivalent 3HP, Single phase ,average 10m head 3600 LPH capa including all accessories.	
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 12579.44 / each	Rs 25158.88
9	18.19.5.2 Providing and fixing gun metal non-return valve of approved quali boreVertical	ity (screwed end):65 mm nomir
	Net Total Quantity	3.000 each
	Say 3.000 each @ Rs 2333.06 / each	Rs 6999.18
		J
10	od19518/2019_2020 Supply installation testing and commissioning of water treatment pl filter,Carbon filter, Iron removal filter,Float switches 4 nos,Filte head),chemical dosing pump((0-10) lph with all accessories complete charge	er feed pump (5000 lph,30-35
10	Supply installation testing and commissioning of water treatment pl filter,Carbon filter, Iron removal filter,Float switches 4 nos,Filte head),chemical dosing pump((0-10) lph with all accessories complete	er feed pump (5000 lph,30-35

	od19521/2019_2020	
	Supply ,Installation testing and commissioning of Kirloskar make or phase ,average 10m head 2500 LPH capacity submersible pump in	
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 24686.69 / each	Rs 49373.38
	5 EXTERNAL SEWERAGE SYSTEM	
1	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one s refilling & testing of Joints complete as per direction of engineer in ch	•
	Net Total Quantity	40.000 metre
	Say 40.000 metre @ Rs 428.72 / metre	Rs 17148.80
2	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one s refilling & testing of joints complete as per direction of Engineer in Ch	
	Net Total Quantity	170.000 metre
	Say 170.000 metre @ Rs 805.57 / metre	Rs 136946.90
	with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate	
	concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggre plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 ceme aggregate 20 mm nominal size) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.I. cover w internal dimensions, total weight of cover and frame to be not less that weight of frame 15 kg):With common burnt clay F.P.S. (non modular)	egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 n an 38 kg (weigh of cover 23 kg a
	plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 ceme aggregate 20 mm nominal size) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.I. cover w internal dimensions, total weight of cover and frame to be not less that weight of frame 15 kg):With common burnt clay F.P.S. (non modular)	egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 n an 38 kg (weigh of cover 23 kg a bricks of class designation 7.5
	plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 ceme aggregate 20 mm nominal size) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.I. cover w internal dimensions, total weight of cover and frame to be not less that	egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 m an 38 kg (weigh of cover 23 kg a
4	plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 ceme aggregate 20 mm nominal size) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.I. cover w internal dimensions, total weight of cover and frame to be not less that weight of frame 15 kg):With common burnt clay F.P.S. (non modular) Net Total Quantity	egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 m an 38 kg (weigh of cover 23 kg a bricks of class designation 7.5 6.000 each <b>Rs 67895.10</b> nt : 4 coarse sand) with R.C.C. t e 20 mm nominal size), foundati egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa with frame ( medium duty ) 500 m 116 kg ( weight of cover 58 kg a
4	plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 cemer aggregate 20 mm nominal size ) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.J. cover we internal dimensions, total weight of cover and frame to be not less that weight of frame 15 kg):With common burnt clay F.P.S. (non modular)         Net Total Quantity         Say 6.000 each @ Rs 11315.85 / each         19.7.2.1       Constructing brick masonry manhole in cement mortar 1:4 (1 cemer with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat design:Inside size 120x90 cm and 90 cm deep including C.I. cover we internal diameter, total weight of cover and frame to be not less than	egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 m an 38 kg (weigh of cover 23 kg a bricks of class designation 7.5 6.000 each <b>Rs 67895.10</b> nt : 4 coarse sand) with R.C.C. t e 20 mm nominal size), foundati egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa with frame ( medium duty ) 500 m 116 kg ( weight of cover 58 kg a

5	19.7.3.1 Constructing brick masonry manhole in cement mortar 1:4 (1 cemer with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggr plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 ceme aggregate 20 mm nominal size ) finished with a floating coat of neat design:Inside size 120x 90 cm and 90 cm deep including C.I. cover internal diameter, total weight of cover and frame to be not less than 2 weight of frame 100 kg)With common burnt clay F.P.S. ( non modular	e 20 mm nominal size), foundation egate 40 mm nominal size,) inside sand) finished with floating coat of nt : 2 coarse sand : 4 graded stone cement complete as per standard with frame ( heavy duty ) 560 mm 208 kg ( weight of cover 108 kg and
	Net Total Quantity	14.000 each
	Say 14.000 each @ Rs 30121.85 / each	Rs 421705.90
6	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5	P.S. ( non modular ) bricks of class
	Net Total Quantity	0.900 metre
	Say 0.900 metre @ Rs 7494.80 / metre	Rs 6745.32
7	19.8.2.1 Extra for depth for manholesSize 120x90 cmWith common burnt cla class designation 7.5	ay F.P.S. ( non modular ) bricks of
	Net Total Quantity	2.100 metre
	Other Say 2.100 metre @ Rs 8978.53 / metre	<sup>IIS</sup> Rs 18854.91
8	19.33 Constructing soak pit 1.20x1.20 m filled with brickbats including S.W 1.20 m long complete as per standard design.	
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 2773.75 / each	Rs 2773.75
9	od19496/2019_2020 Supplying and installing ready made reinforced concrete Septic tar 5000L(1.60m dia x 2.50m long) including the cost of carriage, trenchin level as specified as per the direction of engineer in charge (Pr aggregate for the preparation of bed shall be paid separately)	g, placing at the level below ground
	Net Total Quantity	3.000 each
	Say 3.000 each @ Rs 52251.48 / each	Rs 156754.44
	6 RAIN WATER DRAINAGE	
1	50.18.9.9.1 Providing and fixing PVC pipes includings jointing of pipes with one st refilling & testing of Joints complete as per direction of engineer in cha	arge.110 mm dia 6Kgf/cm2
	Net Total Quantity	20.000 metre

	Say 20.000 metre @ Rs 428.72 / metre	Rs 8574.40
2	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one s refilling & testing of joints complete as per direction of Engineer in Ch	• •
	Net Total Quantity	340.000 metre
	Say 340.000 metre @ Rs 805.57 / metre	Rs 273893.80
3	<ul> <li>19.7.1.1</li> <li>Constructing brick masonry manhole in cement mortar 1:4 (1 cemer with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggr plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse neat cement and making channels in cement concrete 1:2:4 (1 cemer aggregate 20 mm nominal size ) finished with a floating coat of neat design:Inside size 90x80 cm and 45 cm deep including C.I. cover w internal dimensions, total weight of cover and frame to be not less that weight of frame 15 kg):With common burnt clay F.P.S. (non modular)</li> </ul>	e 20 mm nominal size), foundati egate 40 mm nominal size,) insi sand) finished with floating coat nt : 2 coarse sand : 4 graded sto cement complete as per standa ith frame (light duty) 455x610 n an 38 kg (weigh of cover 23 kg a
	Net Total Quantity	22.000 each
	Say 22.000 each @ Rs 11315.85 / each	Rs 248948.70
4	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5	5
4	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5	5
	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity Say 3.300 metre @ Rs 7494.80 / metre	P.S. ( non modular ) bricks of cla
4	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity	P.S. ( non modular ) bricks of cla 3.300 metre Rs 24732.84
	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity Say 3.300 metre @ Rs 7494.80 / metre od19461/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement	P.S. ( non modular ) bricks of cla 3.300 metre Rs 24732.84
	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity Say 3.300 metre @ Rs 7494.80 / metre od19461/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement aggregate 40 mm nominal size) all - round underground PVC pipes.	P.S. ( non modular ) bricks of cla 3.300 metre Rs 24732.84 : 5 coarse sand : 10 graded sto
	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity Say 3.300 metre @ Rs 7494.80 / metre od19461/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement aggregate 40 mm nominal size) all - round underground PVC pipes. Net Total Quantity	P.S. ( non modular ) bricks of cla 3.300 metre Rs 24732.84 : 5 coarse sand : 10 graded sto 43.418 cum Rs 239510.62 um collection tank of overall s
5	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F. designation 7.5 Other Engineering Net Total Quantity Say 3.300 metre @ Rs 7494.80 / metre od19461/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement aggregate 40 mm nominal size) all - round underground PVC pipes. Net Total Quantity Say 43.418 cum @ Rs 5516.39 / cum od19467/2019_2020 Supply all material and construct RCC rain water filtration tank cu	P.S. ( non modular ) bricks of cla 3.300 metre Rs 24732.84 : 5 coarse sand : 10 graded sto 43.418 cum Rs 239510.62 um collection tank of overall s

1		
	od19781/2019_2020 FIRE PUMPS (Jockey) : - "Supplying, installing, testing & commission pump (jockey pump) suitable for automatic operation and consisting of as required : "Horizontal type, multistage, centrifugal pump of cas stainless steel shaft, mechanical seal to ensure a minimum pressur farthest outlet at specified flow of 180 lpm at 80m. head confort Approved.	of following: complete in all respect st iron body & bronze impeller with re of 3.5 kg/sq.cm. at highest and
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 49785.72 / each	Rs 49785.72
2	od19792/2019_2020	
	FIRE PUMPS (Electrical) : - Supplying, installing, testing & commis pump suitable for automatic operation and consisting of following: c :Horizontal type, multistage, centrifugal, split casing pump of cast stainless steel shaft, mechanical seal to ensure a minimum pressur farthest outlet at specified flow of 1620 lpm at 50 m. head conforming to cage induction motor, TEFC, synchronous speed 1500 RPM, suitable 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mount conforming to IS – 325.Make :- ISI Approved. br>	complete in all respect as required iron body & bronze impeller with re of 3.5 kg/sq.cm. at highest and to IS 1520. Suitable HP squirre for operation on 415 volts, 3 phase
	Net Total Quantity	1.000 each
	2.148 - 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	
	Say 1.000 each @ Rs 273055.08 / each	Rs 273055.08
3	Say 1.000 each @ Rs 273055.08 / each od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissionir pump suitable for automatic operation and consisting of following: c :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cd specified flow of 1620 lpm at 50 m. head or	ng of diesel engine driven main fire complete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a
3	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissionir pump suitable for automatic operation and consisting of following: c :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cd	ng of diesel engine driven main fire complete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a
3	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissionin pump suitable for automatic operation and consisting of following: c :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cc specified flow of 1620 lpm at 50 m. head	ng of diesel engine driven main fire omplete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved.
3	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissionin pump suitable for automatic operation and consisting of following: c :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cd specified flow of 1620 lpm at 50 m. head conforming to IS 1520. Net Total Quantity	ng of diesel engine driven main fire omplete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved. 1.000 each <b>Rs 354602.00</b> rising one no. 50mm dia. GM bal
	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissioning pump suitable for automatic operation and consisting of following: construction :"Horizontal type, multistage, centrifugal pump of cast iron body & bo shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.co specified flow of 1620 lpm at 50 m. head br>conforming to IS 1520. Net Total Quantity Say 1.000 each @ Rs 354602.00 / each 	ng of diesel engine driven main fire complete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved. 1.000 each <b>Rs 354602.00</b> rising one no. 50mm dia. GM ba
	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissioning pump suitable for automatic operation and consisting of following: co :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cc specified flow of 1620 lpm at 50 m. head >conforming to IS 1520. Net Total Quantity Say 1.000 each @ Rs 354602.00 / each od19462/2019_2020 Providing and fixing Testing arrangement in the pump house comp valve and 10RM of 50mm dia MS pipe (C Class) confirming to IS 1	ng of diesel engine driven main fire complete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved. 1.000 each <b>Rs 354602.00</b> rising one no. 50mm dia. GM bal 239.Make :- ISI Approved.
	od19795/2019_2020 FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissioning pump suitable for automatic operation and consisting of following: co :"Horizontal type, multistage, centrifugal pump of cast iron body & b shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cc specified flow of 1620 lpm at 50 m. head >conforming to IS 1520. Net Total Quantity Say 1.000 each @ Rs 354602.00 / each od19462/2019_2020 Providing and fixing Testing arrangement in the pump house comp valve and 10RM of 50mm dia MS pipe (C Class) confirming to IS 1	ng of diesel engine driven main fire omplete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved. 1.000 each <b>Rs 354602.00</b> rising one no. 50mm dia. GM ba 239.Make :- ISI Approved. 1.000 each <b>Rs 12007.34</b>
4	od19795/2019_2020         FIRE PUMPS (Diesel) : - Supplying, installing, testing & commissioning pump suitable for automatic operation and consisting of following: c         :"Horizontal type, multistage, centrifugal pump of cast iron body & b         shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cd         specified flow of 1620 lpm at 50 m. head  	ng of diesel engine driven main fire omplete in all respect as required ronze impeller with stainless stee m. at highest and farthest outlet a "Make :- ISI Approved. 1.000 each <b>Rs 354602.00</b> rising one no. 50mm dia. GM bal 239.Make :- ISI Approved. 1.000 each <b>Rs 12007.34</b>

6	od19473/2019_2020	
-	Providing & fixing pressure gauges of not less than 100mm dia dia complete with shut off valve duly calibrated before installation.Mak	
	Net Total Quantity	3.000 each
	Say 3.000 each @ Rs 970.99 / each	Rs 2912.97
7	od19476/2019_2020 Providing and fixing cast 65 mm Dia. iron Butterfly valve of the followir bolts, nuts, washers and neoprene gaskets as per specifications.	
	Net Total Quantity	4.000 each
	Say 4.000 each @ Rs 3893.79 / each	Rs 15575.16
8	od19482/2019_2020 Providing and fixing 80mm Dia. cast iron Butterfly valve of the followir bolts, nuts, washers and neoprene gaskets as per specifications.	
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 4336.78 / each	Rs 8673.56
9	od19488/2019_2020 Providing and fixing 150mm Dia. cast iron Butterfly valve of the follo disc, bolts, nuts, washers and neoprene gaskets as per specificatio	
	Net Total Quantity	2.000 each
	Other Say 2.000 each @ Rs 9146.76 / each	Rs 18293.52
10	od19492/2019_2020 Providing and fixing 150mm dia. Cast iron Non-Return Valve. Make:- I	SI Approved.
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 7011.71 / each	Rs 7011.71
11	od19585/2019_2020 Providing 63mm (2½)" dia 15 m long canvas hose pipe complete coupling stainless steel wire wound with the pipe The pipe shall confir	
	Net Total Quantity	17.000 each
	Say 17.000 each @ Rs 5267.48 / each	Rs 89547.16
12	od19593/2019_2020 M.S Hose Cabinet : - Providing & fixing M.S Hose cabinet door with posize minimum 1200mm wide, 2100mm height) made of M.S sheet 14 arrangement to accommodate 2-hoses, one branch pipe and to acco for internal hydrant complete as per direction of Engineer incharge.	G with glass front door and lockin
	Net Total Quantity	17.000 each
	Say 17.000 each @ Rs 6147.95 / each	Rs 104515.15

	Net Total Quantity	18.000 metre
	Above Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on be suitable flat iron strip clamps/brackets structural members dash faster same etc. painting with a primer coat and two coats of postal red ena wet riser system)	ees, elbows, flanged joints, rubb ends, including fixing the pipe wi ner,civil breakage,making good t
17	od19823/2019_2020	1
	Net Total Quantity Say 38.000 metre @ Rs 1119.26 / metre	38.000 metre Rs 42531.88
	wet riser system) Net Total Quantity	38.000 metre
	same etc. painting with a primer coat and two coats of postal red ena	
	suitable flat iron strip clamps/brackets structural members dash faster	
	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on be	• •
	Above Ground Piping :- Providing, fixing, welding joints and testing of	
16	od19514/2019_2020	4
	Say 18.000 metre @ Rs 689.32 / metre	<sup>IIS</sup> Rs 12407.76
	Net Total Quantity	18.000 metre
	wet riser system)	
	same etc. painting with a primer coat and two coats of postal red ena	
	suitable flat iron strip clamps/brackets structural members dash faster	
	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on be	- ·
	Above Ground Piping :- Providing, fixing, welding joints and testing of	
15	od19796/2019_2020	
	Say 17.000 each @ Rs 8206.68 / each	Rs 139513.56
	Net Total Quantity	17.000 each
	outlet. Make:- ISI Approved	
	steel couplings of 63mm dia. With cast iron wheel ISI marked conform stainless steel cap and chain, stainless steel orifice plate for reducin	•
	Supplying and fixing stainless steel Single headed internal hydrant v	
14	od19597/2019_2020	
	Say 17.000 each @ Rs 2676.48 / each	Rs 45500.16
	Net Total Quantity	17.000 each
	with fixing clamps. Make: Essel/Priyanka/Newage	
	Providing and fixing 63 mm dia standard stainless steel short Branc male threaded outlet, complete with hexagonal base nozzle as per IS	
	Providing and fixing 63 mm dia standard stainlass stool short Propa	h Dina famala instantanaous inl

	od19800/2019_2020 Above Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories t insertion, nuts, bolts, washers or welded joint with flange joints on b suitable flat iron strip clamps/brackets structural members dash faste same etc. painting with a primer coat and two coats of postal red ena wet riser system)	ees, elbows, flanged joints, rubber ends, including fixing the pipe with ner,civil breakage,making good the
	Net Total Quantity	4.000 metre
	Say 4.000 metre @ Rs 1829.67 / metre	Rs 7318.68
19	od19825/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories t insertion, nuts, bolts, washers or welded joint with flange joints on b with one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overla required . (for wet riser system)	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer
	Net Total Quantity	533.000 metre
	Say 533.000 metre @ Rs 2097.95 / metre	Rs 1118207.35
20	od19829/2019_2020	
	Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories t insertion, nuts, bolts, washers or welded joint with flange joints on b with one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overla required	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as
	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on b with one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overla	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer
	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bo with one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar required	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as
21	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bo with one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar required Net Total Quantity	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 510.000 metre <b>Rs 802000.50</b> 680 mm Dia. heavy class MS ERW ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer
21	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar required Net Total Quantity Say 510.000 metre @ Rs 1572.55 / metre od19833/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 510.000 metre <b>Rs 802000.50</b> 680 mm Dia. heavy class MS ERW ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer
21	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar required Net Total Quantity Say 510.000 metre @ Rs 1572.55 / metre od19833/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar paint of the second provides of the second paint paint paint proper overlar required to the second paint paint paint proper overlar paint paint paint paint proper overlar paint	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 510.000 metre <b>Rs 802000.50</b> f 80 mm Dia. heavy class MS ERW ees, elbows, flanged joints, rubber rends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as
21	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar required Net Total Quantity Say 510.000 metre @ Rs 1572.55 / metre od19833/2019_2020 Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy pain corrosion protection tape confirming to IS 10221 with proper overlar Met Total Quantity Net Total Quantity Say State of the point of	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 510.000 metre <b>Rs 802000.50</b> 6 80 mm Dia. heavy class MS ERW ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 340.000 metre <b>Rs 452832.40</b>
	Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy paint corrosion protection tape confirming to IS 10221 with proper overlarequired         Net Total Quantity         Say 510.000 metre @ Rs 1572.55 / metre         od19833/2019_2020         Below Ground Piping :- Providing, fixing, welding joints and testing of Black pipes as per relevant IS 1239/3589 with special accessories to insertion, nuts, bolts, washers or welded joint with flange joints on bowith one coat of anti-corrosive paint and two coats of epoxy paint corrosion protection tape confirming to IS 10221 with proper overlarequired         Net Total Quantity         Say 340.000 metre @ Rs 1331.86 / metre         od19527/2019_2020	ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 510.000 metre <b>Rs 802000.50</b> f 80 mm Dia. heavy class MS ERW ees, elbows, flanged joints, rubber ends and other fitting etc, painting t and and wrapping with polymer apping, trimming etc. complete as 340.000 metre <b>Rs 452832.40</b>

23	od19924/2019_2020	
	Providing and fixing Four Way Fire Brigade Inlet to Hydrant outside th return valve to be paid separately) complete in all respects : Make:- IS	<b>U</b> ( )
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 12118.65 / each	Rs 12118.65
24	od19529/2019_2020 Providing and fixing 50 mm dia. Cast iron Non-Return Valve. Make:- IS	SI Approved.
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 3649.82 / each	Rs 3649.82
25	od19530/2019_2020 Providing and fixing 65 mm dia. Cast iron Non-Return Valve. Make:- IS	SI Approved.
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 2427.23 / each	Rs 4854.46
	8 EXTERNAL LIGHTING	
1	od19458/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground leve including connection/ termination with GI thimble etc. as required.	el for conductor earth electro
	Net Total Quantity	40.000 metre
	Say 40.000 metre @ Rs 103.90 / metre	Rs 4156.00
2	od19474/2019_2020 Other Engineering Organisation Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	ns aluminium conductors for work
2	od19474/2019_2020 Other Engineering Organisation Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with	ns aluminium conductors for work
2	od19474/2019_2020 Other Engineering Organisation Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	ns aluminium conductors for worki 88 for PVC IS 7098 part I for XLF
2	od19474/2019_2020 Other Engineering Organisation Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Net Total Quantity	ns aluminium conductors for worki 88 for PVC IS 7098 part I for XLF 240.000 metre <b>Rs 36240.00</b> wing sizes of FRLS PVC insulat
	od19474/2019_2020 Other Engineering Organisation Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Net Total Quantity Say 240.000 metre @ Rs 151.00 / metre 1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the follow copper conductor, single core cable in surface / recessed medium cl	ns aluminium conductors for worki 88 for PVC IS 7098 part I for XLF 240.000 metre <b>Rs 36240.00</b> wing sizes of FRLS PVC insulat
	od19474/2019_2020       Other Engineering Organisation         Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with         voltages up to and including 1100 volts conforming IS 1584/part I/198         Net Total Quantity         Say 240.000 metre @ Rs 151.00 / metre         1.14.1         Wiring for circuit/ submain wiring alongwith earth wire with the follow         core cable in surface / recessed medium cl         sq.mm + 1x1.5 sq.mm earth wire	ns aluminium conductors for worki 8 for PVC IS 7098 part I for XLF 240.000 metre <b>Rs 36240.00</b> wing sizes of FRLS PVC insulat ass PVC conduit as required2x
	od19474/2019_2020 Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Net Total Quantity Say 240.000 metre @ Rs 151.00 / metre 1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the follow copper conductor, single core cable in surface / recessed medium cl sq.mm + 1x1.5 sq.mm earth wire Net Total Quantity	aluminium conductors for worki aluminium conductors for worki 240.000 metre <b>Rs 36240.00</b> wing sizes of FRLS PVC insulat ass PVC conduit as required2x 200.000 metre <b>Rs 29358.00</b> aluminium conductors for worki
3	od19474/2019_2020       Other Engineering Organisation         Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with         voltages up to and including 1100 volts conforming IS 1584/part I/198         Net Total Quantity         Say 240.000 metre @ Rs 151.00 / metre         1.14.1         Wiring for circuit/ submain wiring alongwith earth wire with the follow         copper conductor, single core cable in surface / recessed medium cl         sq.mm + 1x1.5 sq.mm earth wire         Net Total Quantity         Say 200.000 metre @ Rs 146.79 / metre         od19477/2019_2020         Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with	aluminium conductors for worki aluminium conductors for worki 240.000 metre <b>Rs 36240.00</b> wing sizes of FRLS PVC insulat ass PVC conduit as required2x 200.000 metre <b>Rs 29358.00</b> aluminium conductors for worki

5	od69954/2019_2020	
	SITC of 5 metre Hot dipped galvanised Octogonal pole in single section	•
	bottom diameter, 3mm sheet thickness, base plate dimensions of 2 single arm bracket with 36W LED street light complete with all other	•
	Net Total Quantity	10.000 each
	Say 10.000 each @ Rs 21848.49 / each	Rs 218484.90
6	od69949/2019_2020	
_	SITC of 6 metre Hot dipped galvanised Octogonal pole in single section bottom diameter, 3mm sheet thickness, base plate dimensions of 2 single arm bracket with 45W LED street light complete with all other	00 x 200x 12 mm with 1.0 M long
	Net Total Quantity	20.000 each
	Say 20.000 each @ Rs 17742.49 / each	Rs 354849.80
7	od69950/2019_2020	
	SITC Of feeder pillar complete with the following accessories. Incom	er: 40A, DP Isolator. 40A, DP,
	RCCB, 100mA. Timer control with contactor. Auto/ Manual switch	n. Outgoing: 10A, SP MCB - 4 Nos.
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 19432.33 / each	Rs 38864.66
8	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) include refilling etc as required 150 mm dia incering Organisation	uding trenching (75 cm deep) and
	Net Total Quantity	46.000 metre
	Say 46.000 metre @ Rs 530.79 / metre	Rs 24416.34
9	7.1.1	
	Laying of one number PVC insulated and PVC sheathed / XLPE powersize direct in ground including excavation, sand cushioning, protective as required. Upto 35 sq. mm	<b>v v</b>
	Net Total Quantity	820.000 metre
	Say 820.000 metre @ Rs 269.98 / metre	Rs 221383.60
10	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE powersize in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq.	• •
	Net Total Quantity	80.000 metre
	Say 80.000 metre @ Rs 23.59 / metre	Rs 1887.20
11	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / X following size on wall surface as required.Upto 35 sq. mm (clamped wi	th 1mm thick saddle)
	Net Total Quantity	40.000 metre

	Say 40.000 metre @ Rs 32.77 / metre	Rs 1310.80
12	9.1.8 Supplying and making end termination with brass compression glan size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 X 16 sq. mm (25mm)	<b>v</b>
	Net Total Quantity	4.000 set
	Say 4.000 set @ Rs 264.74 / set	Rs 1058.96
13	7.8.1 Laying and fixing of one number PVC insulated and PVC sheathed / X following size on cable tray as required.Upto 35 sq. mm (clamped with	•
	Net Total Quantity	40.000 metre
	Say 40.000 metre @ Rs 27.52 / metre	Rs 1100.80
14	5.2 Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including a enclosure with cover plate having locking arrangement and watering p as required	
	Net Total Quantity	2.000 set
	Say 2.000 set @ Rs 4812.52 / set	Rs 9625.04
	9 EXISTING SMART CLASSROOM - ELECTRICAL AND I	ELV WORKS
1	od19448/2019_2020 Other Engineering Organisation Supply, installation, testing and commissioning of Cat6 I/O for Patch P	ns anel Shuttered.
	Net Total Quantity	24.000 no
	Say 24.000 no @ Rs 260.00 / no	Rs 6240.00
2	od19608/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger LCD/LED display & keypad & TCPIP LAN, USB Connectivity along w	•
	software (Web based Terminal)	I
	software (Web based Terminal) Net Total Quantity	16.000 no
		16.000 no <b>Rs 121600.00</b>
3	Net Total Quantity	Rs 121600.00
3	Net Total Quantity Say 16.000 no @ Rs 7600.00 / no od19459/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps	Rs 121600.00
3	Net Total Quantity Say 16.000 no @ Rs 7600.00 / no od19459/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps networks and internet on class room etc.	Rs 121600.00
3	Net Total Quantity Say 16.000 no @ Rs 7600.00 / no od19459/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps networks and internet on class room etc. Net Total Quantity	Rs 121600.00 8 Port Network Switch to provi 1.000 no Rs 4130.00

	Say 1.000 no @ Rs 874.00 / no	Rs 874.00
5	od19470/2019_2020	
	Supply, Installation, testing and commissioning of Cat6 8 Port un loade	ed Patch Panel.
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 474.00 / no	Rs 474.00
6	od19475/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps networks and internet on class room etc.	16 Port Network Switch to provi
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 7375.00 / no	Rs 7375.00
7	od19478/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps networks and internet on class room etc.	8 Port Network Switch to provi
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 4130.00 / no	Rs 4130.00
8	od19610/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000	Mbps PoE Switch.
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 14220.00 / no	Rs 14220.00
9	od19611/2019_2020Other Engineering Organisatio	ns
	Supply and drawing of CAT6 4 pair cable including all necessary conn	ector.
	Net Total Quantity	1100.000 metre
	Say 1100.000 metre @ Rs 39.00 / metre	Rs 42900.00
10	od19489/2019_2020 Supply, Installation, Testing and commissioning Of distribution box for Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1U Kit10	
		1
	Net Total Quantity	1.000 no
		1.000 no <b>Rs 7611.00</b>
11	Net Total Quantity	<b>Rs 7611.00</b> 600Wx600D With Front Glass Do
11	Net Total Quantity Say 1.000 no @ Rs 7611.00 / no od19615/2019_2020 Supply, installation, testing and commissioning of wall mounted 15Ux0 With Lock & Key,Side Openable Panels with Lock & Key,6Way 5A	<b>Rs 7611.00</b> 600Wx600D With Front Glass Do

12	od69964/2019_2020 Supply, installation, Testing and commissioning of 19" Flat Screen VC other accessories as required.	GA colour monitor complete with a	
	Net Total Quantity	2.000 each	
	Say 2.000 each @ Rs 9286.00 / each	Rs 18572.00	
13	od19743/2019_2020 Supply, installation, testing and commissioning of indoc 2.1mm/4mm/6mm focal length lens capable to 1.0 lux ser		
	Net Total Quantity	32.000 no	
	Say 32.000 no @ Rs 5945.00 / no	Rs 190240.00	
14	od19745/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv conduit.		
	Net Total Quantity	380.000 no	
	Say 380.000 no @ Rs 69.00 / no	Rs 26220.00	
15	od19747/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors		
	Net Total Quantity	6.000 no	
	Say 6.000 no @ Rs 2025.00 / no	Rs 12150.00	
16	od19505/2019_2020 Other Engineering Organisation Supply, Installation, Testing and commissioning of Distribution box SWG CRCA sheet with lockable door arrangement having connector wire with facity for cable termination of 4cx10 sqmm ALAR. Re termination.	for PA distribution made out of or source of the second seco	
	Net Total Quantity	1.000 no	
	Say 1.000 no @ Rs 979.00 / no	Rs 979.00	
17	od19753/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/ MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCT	1,2,3,4:66DB;AUX 1:80 DB,TH	
	INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVI SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.		
	SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.	DUAL GAIN CONTROLS, POWE	
18	SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ. Net Total Quantity	DUAL GAIN CONTROLS, POWE	
18	SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.           Net Total Quantity           Say 1.000 no @ Rs 28325.00 / no           od19511/2019_2020	DUAL GAIN CONTROLS, POWE	

19	od19512/2019_2020	an haaa mista an difeent alata 4/0.
	Supply and installation of GI box for modular switch installation including	
	Net Total Quantity	16.000 no
	Say 16.000 no @ Rs 234.00 / no	Rs 3744.00
20	od19764/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount sp with line matching transformer suitable for 4 ohm impedance 200 mm	
	Net Total Quantity	32.000 no
	Say 32.000 no @ Rs 1350.00 / no	Rs 43200.00
21	od19519/2019_2020 Supply and laying of Cat6 outdoor cable including necessary connector	ors
	Net Total Quantity	40.000 no
	Say 40.000 no @ Rs 84.00 / no	Rs 3360.00
22	od19522/2019_2020 SITC Of NVR 8 Channel for CCTV	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 8500.00 / no	Rs 8500.00
23	od19524/2019_2020 Supply, installation, testing and commissioning of 8 port PoE switch Other Engineering Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 6250.00 / no	Rs 6250.00
24	od19774/2019_2020 Supply, installation, testing and commissioning of Promethean Boa accessories. Active inspire software will be complimentary with Pro	•
	Net Total Quantity	16.000 no
	Say 16.000 no @ Rs 34000.00 / no	Rs 544000.00
25	1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the follow copper conductor, single core cable in surface / recessed medium c sq.mm + 1x1.5 sq.mm earth wire	-
	Net Total Quantity	360.000 metre
	Say 360.000 metre @ Rs 146.79 / metre	Rs 52844.40
26	1.14.2 Wiring for circuit/ submain wiring alongwith earth wire with the follow	-
	copper conductor, single core cable in surface / recessed medium cla sq. mm + 1 X 2.5 sq. mm earth wire	ass PVC conduit as required2X 2

	Say 360.000 metre @ Rs 179.55 / metre	Rs 64638.00
27	1.24.1 Supplying and fixing following modular switch/ socket on the exist including connections but excluding modular plate etc. as require	•
	Net Total Quantity	32.000 each
	Say 32.000 each @ Rs 110.09 / each	Rs 3522.88
28	1.24.3 Supplying and fixing following modular switch/ socket on the exist including connections but excluding modular plate etc. as require	•
	Net Total Quantity	16.000 each
	Say 16.000 each @ Rs 149.41 / each	Rs 2390.56
29	1.24.4 Supplying and fixing following modular switch/ socket on the exist including connections but excluding modular plate etc. as require	•
	Net Total Quantity	32.000 each
	Say 32.000 each @ Rs 106.16 / each	Rs 3397.12
	Supplying and fixing following modular switch/ socket on the exist including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity	ed.6 pin 15/16 amp socket out 16.000 each
31	including connections but excluding modular plate etc. as require	ed.6 pin 15/16 amp socket out 16.000 each <b>Rs 3208.32</b>
31	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modu	ed.6 pin 15/16 amp socket out 16.000 each <b>Rs 3208.32</b>
31	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modu switches in recess etc as required.3 Module (100mmX75mm)	ed.6 pin 15/16 amp socket out 16.000 each <b>Rs 3208.32</b> Iar base & cover plate for modu
31	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modu switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36
	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modules switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity Say 16.000 each @ Rs 242.46 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith modules	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36
	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16,000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modules switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity Say 16.000 each @ Rs 242.46 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith modules switches in recess etc as required.6 Module (200mmX75mm)	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36 lar base & cover plate for modu
	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith module switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity Say 16.000 each @ Rs 242.46 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith module switches in recess etc as required.6 Module (200mmX75mm) Net Total Quantity Net Total Quantity	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36 lar base & cover plate for modu 16.000 each
	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16.000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith modul switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity Say 16.000 each @ Rs 242.46 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith modul switches in recess etc as required.6 Module (200mmX75mm) Net Total Quantity Net Total Quantity Say 16.000 each @ Rs 338.13 / each	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36 lar base & cover plate for modu 16.000 each Rs 5410.08
32	including connections but excluding modular plate etc. as require Other Engineering Net Total Quantity Say 16,000 each @ Rs 200.52 / each 1.27.2 Supplying and fixing following size/ modules, GI box alongwith module switches in recess etc as required.3 Module (100mmX75mm) Net Total Quantity Say 16.000 each @ Rs 242.46 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith module switches in recess etc as required.6 Module (200mmX75mm) Net Total Quantity Say 16.000 each @ Rs 338.13 / each 10 SUMP TANK ELECTRICAL WORKS od19449/2019_2020 Supply of 35 sqmm 3.5 core PVC/XLPE insulated armoured cable with	ed.6 pin 15/16 amp socket out 16.000 each Rs 3208.32 lar base & cover plate for modu 16.000 each Rs 3879.36 lar base & cover plate for modu 16.000 each Rs 5410.08

2	9.1.21	
	Supplying and making end termination with brass compression glan	d and aluminium lugs for followin
	size of PVC insulated and PVC sheathed / XLPE aluminium con	ductor cable of 1.1 KV grade a
	required.3 1/2X 35 sq. mm (32mm)	
	Net Total Quantity	2.000 set
	Say 2.000 set @ Rs 369.59 / set	Rs 739.18
3	od70792/2019_2020 SITC of SSB (WTP Panel, Malampuzha ) Supply, installation , terenclosed compartmentalized dust and vermin proof cubical segregater panel board free standing fabricated with14swg and 16swg of CRCA M chamber ,outgoing switchgear etc. (all feeder unit Would be comp sleeved vertical / horizontal Aluminium busbar of required size of leminimum 32 mm ) insulators, hardware, neoprene gasket , hinger multi strand lugged copper wire having current density of 2A / sqmm of from busbar to switchgears / MCCB / MCB or where ever required, cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of bolts at outside of the panel, rating and name plates for all incoming & followings as per the KEI standard. Switch gears – ABB/ Equivalent, Incomer: - 63A TPN Isolator – 1 No. Outgoing: - 10A 3P MCB – 4 N MCB – 1 No., 5 hp DOL starter with OLR - 1 No, 3 hp DOL starter with OLR - 4 No.	ed and modular in construction M. M.S. sheet, powder coated , busb art mentalized), color coded PV ength, ( bus-bar distances shall be ed door, interconnecting single co of suitable capacity & size with lug control wiring with 1 sqmm FRL of size 25 x 5 mm copper with nut & outgoings etc comprising with th Contactors – ABB, L&T/Equivaler No., 25A 3P MCB – 5 No., 25A S
	OLR - 4 No.	
	Net Total Quantity	1.000 each
	Oth Say 1.000 each @ Rs 136159.58 / each @	IIS Rs 136159.58
4	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE powersize direct in ground including excavation, sand cushioning, protective as required.Upto 35 sq. mm	
	Net Total Quantity	240.000 metre
	Say 240.000 metre @ Rs 269.98 / metre	Rs 64795.20
5	Say 240.000 metre @ Rs 269.98 / metre od19460/2019_2020 Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	aluminium conductors for worki
5	od19460/2019_2020 Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with	aluminium conductors for worki
5	od19460/2019_2020 Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Net Total Quantity	a aluminium conductors for working for PVC IS 7098 part I for XLF
5	od19460/2019_2020 Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	a aluminium conductors for worki 38 for PVC IS 7098 part I for XLF 80.000 metre <b>Rs 21920.00</b> LPE power cable of 1.1 KVgrade
	od19460/2019_2020         Supply of 10 sqmm 3 core PVC/ XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198         Net Total Quantity         Say 80.000 metre @ Rs 274.00 / metre         7.7.1         Laying and fixing of one number PVC insulated and PVC sheathed / X	a aluminium conductors for worki 38 for PVC IS 7098 part I for XLF 80.000 metre <b>Rs 21920.00</b> LPE power cable of 1.1 KVgrade

	7.8.1	
	Laying and fixing of one number PVC insulated and PVC sheathed / X	
	following size on cable tray as required.Upto 35 sq. mm (clamped with	1mm thick saddle)
	Net Total Quantity	20.000 metre
	Say 20.000 metre @ Rs 27.52 / metre	Rs 550.40
8	9.1.7 Supplying and making end termination with brass compression glan size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 X 10 sq. mm (22mm)	-
	Net Total Quantity	12.000 set
	Say 12.000 set @ Rs 224.11 / set	Rs 2689.32
9	5.2 Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including a enclosure with cover plate having locking arrangement and watering p as required	• •
	Net Total Quantity	2.000 set
	Say 2.000 set @ Rs 4812.52 / set	Rs 9625.04
10	5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo	•
10		etc. as required.(Jointing shall
10	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity	etc. as required.(Jointing shall r spaced at 50mm)
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre	etc. as required.(Jointing shall er spaced at 50mm) 30.000 metre
10	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity	etc. as required.(Jointing shall er spaced at 50mm) 30.000 metre Rs 3342.00
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15	etc. as required.(Jointing shall er spaced at 50mm) 30.000 metre Rs 3342.00
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity	etc. as required.(Jointing shall r spaced at 50mm) 30.000 metre Rs 3342.00 or connections etc. as required. 15.000 metre
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity Say 15.000 metre @ Rs 169.07 / metre	etc. as required.(Jointing shall r spaced at 50mm) 30.000 metre Rs 3342.00 or connections etc. as required. 15.000 metre Rs 2536.05
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity	etc. as required.(Jointing shall r spaced at 50mm) 30.000 metre Rs 3342.00 r connections etc. as required. 15.000 metre Rs 2536.05 EXISTING PANELS
11	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity Say 15.000 metre @ Rs 169.07 / metre 11 DG SET, CHANGE OVER PANEL AND UP-GRADATION OF od19450/2019_2020 Supply of 400 sqmm 3.5 core PVC/XLPE insulated armoured cate working voltages up to and including 1100 volts conforming IS 1584/pa	etc. as required.(Jointing shall r spaced at 50mm) 30.000 metre Rs 3342.00 r connections etc. as required. 15.000 metre Rs 2536.05 EXISTING PANELS
11	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity Say 15.000 metre @ Rs 169.07 / metre 11 DG SET, CHANGE OVER PANEL AND UP-GRADATION OF od19450/2019_2020 Supply of 400 sqmm 3.5 core PVC/XLPE insulated armoured cat working voltages up to and including 1100 volts conforming IS 1584/pi XLPE Net Total Quantity	etc. as required.(Jointing shall ar spaced at 50mm) 30.000 metre Rs 3342.00 ar connections etc. as required. 15.000 metre Rs 2536.05 EXISTING PANELS ole with aluminium conductors art I/1988 for PVC IS 7098 part I 80.000 metre
11	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre belo including connection/ terminating with G.I. nut, bolt, spring, washer done by overlapping and with 2 sets of G.I. nut bolt & spring washer Net Total Quantity Say 30.000 metre @ Rs 111.40 / metre 5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for Net Total Quantity Say 15.000 metre @ Rs 169.07 / metre 11 DG SET, CHANGE OVER PANEL AND UP-GRADATION OF od19450/2019_2020 Supply of 400 sqmm 3.5 core PVC/XLPE insulated armoured cate working voltages up to and including 1100 volts conforming IS 1584/pa XLPE	etc. as required.(Jointing shall ar spaced at 50mm) 30.000 metre Rs 3342.00 ar connections etc. as required. 15.000 metre Rs 2536.05 EXISTING PANELS ole with aluminium conductors art I/1988 for PVC IS 7098 part I

	Net Total Quantity	6.000 set
	Say 6.000 set @ Rs 10863.56 / set	Rs 65181.36
3	5.9	
	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below	w ground as strip earthelectrode
	including connection/ terminating with G.I. nut, bolt, spring, washer	etc. as required.(Jointing shall b
	done by overlapping and with 2 sets of G.I. nut bolt & spring washe	er spaced at 50mm)
	Net Total Quantity	180.000 metre
	Say 180.000 metre @ Rs 111.40 / metre	Rs 20052.00
4	od70801/2019_2020	
	SITC of Change over panel Supply, installation, testing and compartmentalized dust and vermin proof cubical segregated and metaoard free standing fabricated with14swg and 16swg of CRCA M.S chamber, outgoing switchgear etc. (all feeder unit Would be composed vertical / horizontal Aluminium busbar of required size of leminimum 32 mm) insulators, hardware, neoprene gasket, hinged door strand lugged copper wire having current density of 2A / sqmm of suite busbar to switchgears / MCCB / MCB or where ever required, control ON/OFF, RYB phase indicators, two earthing terminal busbar of size at outside of the panel, rating and name plates for all incoming & c followings as per the KEI standard. Switch gears – ABB/ Equivalent, C Incomer: - 800A, 50kA, 4P MCCB - 1 No, 800A, FP Isolator - 1 no. Or No. with AMF relay, contactors etc as required.	nodular in construction M.V. pan S. sheet, powder coated , bus-b bartmentalized), color coded PV ength, (bus-bar distances shall to or, interconnecting single core mu able capacity & size with lugs fro of wiring with 1 sqmm FRLS cabl 25 x 5 mm copper with nut & bol outgoings etc. comprising with th Contactors – ABB, L&T/Equivale
	Say 1.000 each @ Rs 514732.37 / each	Rs 514732.37
		13 5147 52.57
5	5.15 A Solution Stress for the stress of the	ar connections atc. as required
		•
	Net Total Quantity	80.000 metre
	Say 80.000 metre @ Rs 169.07 / metre	Rs 13525.60
		13 13525.00
6	9.1.31 Supplying and making end termination with brass compression gland size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 1/2X 400 sq. mm (82mm)	d and aluminium lugs for followir
6	Supplying and making end termination with brass compression gland size of PVC insulated and PVC sheathed / XLPE aluminium con	d and aluminium lugs for followir
6	Supplying and making end termination with brass compression gland size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 1/2X 400 sq. mm (82mm) Net Total Quantity	d and aluminium lugs for followir ductor cable of 1.1 KV grade a
6	Supplying and making end termination with brass compression gland size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 1/2X 400 sq. mm (82mm)	d and aluminium lugs for followir ductor cable of 1.1 KV grade a 16.000 set <b>Rs 29126.72</b> er cable of 1.1 KV grade offollowir tc as required, butexcluding sar

	Say 40.000 metre @ Rs 182.17 / metre	Rs 7286.80
8	7.8.4 Laying and fixing of one number PVC insulated and PVC sheathed / X following size on cable tray as required.Above 185 sq. mm and upto 4 MS flat clamp)	, v
	Net Total Quantity	110.000 metre
	Say 110.000 metre @ Rs 125.82 / metre	Rs 13840.20
9	od19940/2019_2020 SITC of DG SITC of 400kVA, 415V DG with DG control panel, over-current protection, fuel tank with capacity for 8hrs of operation, norms.	• •
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 2372882.00 / no	Rs 2372882.00
10	od74398/2019_2020 Supply of 240 sqmm 3.5 core PVC/XLPE insulated armoured cat working voltages up to and including 1100 volts conforming IS 1584/p XLPE	
	Net Total Quantity	30.000 metre
	Say 30.000 metre @ Rs 1240.00 / metre	Rs 37200.00
11	Say 30.000 metre @ Rs 1240.00 / metre od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminiu with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for L PVC tape, galvanized steel flat strip armoured, and overall PVC shear part II 1985 with latest amendments	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath
11	od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminity with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for L PVC tape, galvanized steel flat strip armoured, and overall PVC shea	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath
11	od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminiu with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for L PVC tape, galvanized steel flat strip armoured, and overall PVC shear part II 1985 with latest amendments	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70
11	od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminiu with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for L PVC tape, galvanized steel flat strip armoured, and overall PVC sheat part II 1985 with latest amendments Net Total Quantity	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70 175.000 metre Rs 205800.00 er cable of 11 KV grade offollowi
	od74401/2019_2020         Supply of 3 core 150 sqmm 11KV stranded compact circular aluminit         with extruded semi conducting compound XLPE insulated, insular         conducting compound in combination with copper tape (0.3KA for Le         PVC tape, galvanized steel flat strip armoured, and overall PVC sheat         part II 1985 with latest amendments         Net Total Quantity         Say 175.000 metre @ Rs 1176.00 / metre         8.1.2         Laying of one number PVC insulated and PVC sheathed / XLPE pow         size direct in ground including excavation, sand cushioning, protection	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70 175.000 metre Rs 205800.00 er cable of 11 KV grade offollowi
	od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminiu with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for Le PVC tape, galvanized steel flat strip armoured, and overall PVC sheat part II 1985 with latest amendments Net Total Quantity Say 175.000 metre @ Rs 1176.00 / metre 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE pow size direct in ground including excavation, sand cushioning, protection etc as required.Above 120 sq. mm and upto 400 sq. mm	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70 175.000 metre <b>Rs 205800.00</b> er cable of 11 KV grade offollowi ve covering and refilling the tren
	od74401/2019_2020 Supply of 3 core 150 sqmm 11KV stranded compact circular aluminiu with extruded semi conducting compound XLPE insulated, insular conducting compound in combination with copper tape (0.3KA for Le PVC tape, galvanized steel flat strip armoured, and overall PVC sheat part II 1985 with latest amendments Net Total Quantity Say 175.000 metre @ Rs 1176.00 / metre 8.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE pow size direct in ground including excavation, sand cushioning, protecti etc as required.Above 120 sq. mm and upto 400 sq. mm Net Total Quantity	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70 175.000 metre <b>Rs 205800.00</b> er cable of 11 KV grade offollowi ve covering and refilling the tren 164.000 metre <b>Rs 64051.84</b> er cable of 11 KV grade offollowi
12	od74401/2019_2020         Supply of 3 core 150 sqmm 11KV stranded compact circular aluminity         with extruded semi conducting compound XLPE insulated, insular         conducting compound in combination with copper tape (0.3KA for Here         PVC tape, galvanized steel flat strip armoured, and overall PVC sheat         part II 1985 with latest amendments         Net Total Quantity         Say 175.000 metre @ Rs 1176.00 / metre         8.1.2         Laying of one number PVC insulated and PVC sheathed / XLPE pow         size direct in ground including excavation, sand cushioning, protecti         etc as required.Above 120 sq. mm and upto 400 sq. mm         Net Total Quantity         Say 164.000 metre @ Rs 390.56 / metre         8.3.2       Laying of one number PVC insulated and PVC sheathed / XLPE pow	m conductor, conductors screen tion screened with extruded se sec.) cores laid up. inner sheath athed cable conforming to IS: 70 175.000 metre <b>Rs 205800.00</b> er cable of 11 KV grade offollowi ve covering and refilling the tren 164.000 metre <b>Rs 64051.84</b> er cable of 11 KV grade offollowi

	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) incl refilling etc as required.150 mm dia	
	Net Total Quantity	11.000 metre
	Say 11.000 metre @ Rs 530.79 / metre	Rs 5838.69
15	7.7.4 Laying and fixing of one number PVC insulated and PVC sheathed / X following size on wall surface as required.Above 185 sq. mm and 40x3mm MS flat clamp)	
	Net Total Quantity	60.000 metre
	Say 60.000 metre @ Rs 157.27 / metre	Rs 9436.20
16	9.1.29 Supplying and making end termination with brass compression glan size of PVC insulated and PVC sheathed / XLPE aluminium con required.3 1/2X 240 sq. mm (62mm)	•
	Net Total Quantity	4.000 set
	Say 4.000 set @ Rs 1296.18 / set	Rs 5184.72
17	od74631/2019_2020 SITC of 60 KVAr APFC Panel (60 KVAr Only for phase 1. In phase 2, to 200 KVAr). Supply, installation, testing and commissioning of totall and vermin proof cubical segregated and modular in construction fabricated with14swg and 16swg of CRCA M.S. sheet, powder co switchgear etc. (all feeder unit Would be compartmentalized), co horizontal Aluminium busbar of required size of length, (bus-bar dis insulators, hardware, neoprene gasket, hinged door, interconnectin copper wire having current density of 2A / sqmm of suitable capacities witchgears / MCCB / MCB or where ever required, control wiring w RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm of the panel, rating and name plates for all incoming & outgoings etc per the KEI standard. Switch gears – ABB/ Equivalent, Contactors - 630A, 4P Isolator. Outgoing: 63A 25kA 3P MCCB - 1 no, 40A 25kA MCCB - 2 nos. Capacitors: 25KVAr - 1 no, 20KVAr - no, 10KVAr -	the APFC panel shall be upgrade y enclosed compartmentalized due n M.V. panel board free standin ated , bus-bar chamber ,outgoin lor coded PVC sleeved vertica tances shall be minimum 32 mm ng single core multi strand lugge ity & size with lugs from busbar with 1 sqmm FRLS cable, ON/OF n copper with nut & bolts at outside comprising with the followings a - ABB, L&T/Equivalent. Incomer a 3P MCCB - 1 no & 25A 25kA 3
17	od74631/2019_2020 SITC of 60 KVAr APFC Panel (60 KVAr Only for phase 1. In phase 2, to 200 KVAr). Supply, installation, testing and commissioning of totall and vermin proof cubical segregated and modular in construction fabricated with14swg and 16swg of CRCA M.S. sheet, powder co switchgear etc. (all feeder unit Would be compartmentalized), co horizontal Aluminium busbar of required size of length, (bus-bar dis insulators, hardware, neoprene gasket , hinged door, interconnectil copper wire having current density of 2A / sqmm of suitable capacit switchgears / MCCB / MCB or where ever required, control wiring w RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm of the panel, rating and name plates for all incoming & outgoings etc per the KEI standard. Switch gears – ABB/ Equivalent, Contactors - 630A, 4P Isolator. Outgoing: 63A 25kA 3P MCCB - 1 no, 40A 25kA	the APFC panel shall be upgrade y enclosed compartmentalized due n M.V. panel board free standin ated , bus-bar chamber ,outgoin lor coded PVC sleeved vertica tances shall be minimum 32 mm ng single core multi strand lugge ity & size with lugs from busbar with 1 sqmm FRLS cable, ON/OF n copper with nut & bolts at outside comprising with the followings a – ABB, L&T/Equivalent. Incomer A 3P MCCB - 1 no & 25A 25kA 3

18	<ul> <li>od74632/2019_2020</li> <li>SITC of MSB (for Phase 1). Supply, installation, testing and concompartmentalized dust and vermin proof cubical segregated and neboard free standing fabricated with14swg and 16swg of CRCA M.S. chamber, outgoing switchgear etc. (all feeder unit Would be composed vertical / horizontal Aluminium busbar of required size of leminimum 32 mm) insulators, hardware, neoprene gasket, hinged door strand lugged copper wire having current density of 2A / sqmm of suite busbar to switchgears / MCCB / MCB or where ever required, control ON/OFF, RYB phase indicators, two earthing terminal busbar of size at outside of the panel, rating and name plates for all incoming &amp; control followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears – ABB/ Equivalent, followings as per the KEI standard. Switch gears</li></ul>	nodular in construction M.V. panel S. sheet, powder coated , bus-bar partmentalized), color coded PVC ength, (bus-bar distances shall be pr, interconnecting single core multi able capacity & size with lugs from pl wiring with 1 sqmm FRLS cable 25 x 5 mm copper with nut & bolts putgoings etc. comprising with the Contactors – ABB, L&T/Equivalent utgoing: 250A, 36kA, 3P MCCB - 1
	Net Total Quantity	1.000 set
	Say 1.000 set @ Rs 183881.58 / set	Rs 183881.58
	Quantum and exection of 40 meters laws 450-450 mm DO I double rate	
	Supply and erection of 10 meter long 152x152 mm RSJ double pole s breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch 2 supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity	ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members & 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm
	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch a supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity	ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members & 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each
20	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch 2 supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm	ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members x 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each Rs 155000.00 0KVA Ratio 11KV/433V, 50 Hz, 3
20	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch a supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity Say 1.000 each @ Rs 155000.00 / each od169129/2019_2020 Supply, installation, testing and commissioning of Outdoor USS 40 Phase, Vector DYN-11, complete with all accessories including Load	ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members & 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each Rs 155000.00 0KVA Ratio 11KV/433V, 50 Hz, 3
20	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch a supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity Say 1.000 each @ Rs 155000.00 / each od169129/2019_2020 Supply, installation, testing and commissioning of Outdoor USS 40 Phase, Vector DYN-11, complete with all accessories including Load as required	ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members & 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each Rs 155000.00 0KVA Ratio 11KV/433V, 50 Hz, 3 Break Switch, PT & TOD Meter etc
	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc, Erection of chain link mesh of size 3 inch 2 supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity Say 1.000 each @ Rs 155000.00 / each od169129/2019_2020 Supply, installation, testing and commissioning of Outdoor USS 40 Phase, Vector DYN-11, complete with all accessories including Load as required Net Total Quantity Say 1.000 each @ Rs 895644.00 / each	<pre>ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members x 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each Rs 155000.00 0KVA Ratio 11KV/433V, 50 Hz, 3 Break Switch, PT &amp; TOD Meter etc 1.000 each Rs 895644.00</pre>
	breaking isolators along with earth switch, 11 kV disc insulators su arrestors, mechanical interlocks for open/close of main pole and earth 2 nos stay wires with guy insulators, painting, earthing, bus cond fastners, clamps etc., Erection of chain link mesh of size 3 inch a supporting pole span of 3 m using suitable ISI angle 50x50x6 mm aro earthing etc. Suitsble weld mesh door with frame work shall be prov size blue metal jelly in the DP structure yard to a height of 150mm Net Total Quantity Say 1.000 each @ Rs 155000.00 / each od169129/2019_2020 Supply, installation, testing and commissioning of Outdoor USS 40 Phase, Vector DYN-11, complete with all accessories including Load as required Net Total Quantity Say 1.000 each @ Rs 895644.00 / each od169169/2019_2020 Supplying and making Indoor heat shrinkable cable jointing kit with lug	<pre>ipport insulators, 11 kV lightening ing, jumpering, angle iron supports uctors, stringing, steel members x 3 inch to a height of 2.4m with und the double pole structure yard ided. Supply and spreading 40mm 1.000 each Rs 155000.00 0KVA Ratio 11KV/433V, 50 Hz, 3 Break Switch, PT &amp; TOD Meter etc 1.000 each Rs 895644.00</pre>

22	od169170/2019_2020 Supplying and making Outdoor heat shrinkable cable jointing kit with I	ugs for 11KV grade XLPE cable for	
	3 core 150 sq. mm (Make: Raychem)		
	Net Total Quantity	2.000 each	
	Say 2.000 each @ Rs 5693.00 / each	Rs 11386.00	
	12 SIGNAGE AND BOARDS		
1	od22586/2019_2020 Providing and fixing of Advance Direction / Way finding / Reassural 1500 mm made out of Type-XI encapsulated lens type retro reflective be of White Color Type XI Retro Reflective Sheeting fixed over 2 mm to sheet with area exceeding 0.9 sqm fixed over back support frame of N mounted on two 50 mm dia MS Pipe with clear height of not less than bottom of the board as per approved drawings. The sign post sho oxide paint and two coats of 1 st quality synthetic enamel paint Black height. The sign post shall be firmly fixed in to the ground by means of M15 grade concrete size 450mm x 450mmx 600 mm, including equipment,machinery and labour with all leads and lift,loading cl completion of the work as directed by Engineer in-Charge.	sheeting wide. Base Sheeting shat thick Aluminium Composite Materi M.S.Angle $35 \times 35 \times 5$ mm all rour to 2.1 m from the ground level to the build be painted with one coat of re & white colour with bands of 30 c of properly designed foundation with cost, conveyance of all material	
	Net Total Quantity	3.000 each	
	Say 3.000 each @ Rs 18119.40 / each	Rs 54358.20	
2	od22587/2019_2020 Supply and fixing sticker type signage at site (on door or similar locations) in proper line & level. T signage letters shall be made with premium quality vinyl sheet of approved colour, pasted on "3M"ma self-adhesive film of approved colour, including supply of all material labour etc. required for prop completion of work. Before making the signage text & font of letters in best fit size will be set in compu so as to give aesthetic look as per sample available with ITD		
	Net Total Quantity	8778.000 sqcm	
	Say 8778.000 sqcm @ Rs 0.36 / sqcm	Rs 3160.08	
3	od22588/2019_2020 Supply and fixing bilingual signage in English. The signage letters will sheet of approved colour, pasted on 3mm thick aluminium composite either fixed on the wall with the screws & double tape or hanged fro hooks & chains complete work.	panel backing. The signage will b	
	Net Total Quantity	28501.201 sqcm	
	Say 28501.201 sqcm @ Rs 0.74 / sqcm	Rs 21090.89	
4	od22593/2019_2020 Supply & fixing 5 mm thick aluminum compressed Panel (ACP) she name signage. The sheet will be cut into size as per the size of sig	•	

	Net Total Quantity	46800.000 sqcm
	Say 46800.000 sqcm @ Rs 0.43 / sqcm	Rs 20124.00
5	od22594/2019_2020 Supply & fixing stainless steel (SS) letters made with SS-304 grade 2 size & shade including fixing on ACP sheet in required height line required for proper completion of work. Before making the letters the for ITD.	& level including s/o all T&P et
	Net Total Quantity	880.000 cm
	Say 880.000 cm @ Rs 36.01 / cm	Rs 31688.80
6	od22589/2019_2020 Supply and fixing symbol signage such as No. Smoking, No Spittir standard sizes as per conventional design/ colour code on 3 mm thic signage will be either fixed on the wall with the help of screws & dou ceiling with the help of chain & screws etc. complete work.	k aluminium composite panel. Th
	Net Total Quantity	4788.000 sqcm
	Say 4788.000 sqcm @ Rs 0.85 / sqcm	Rs 4069.80
7	od22590/2019_2020	
7	od22590/2019_2020 Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look	he wall with the help of screws ar
7	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity	he wall with the help of screws ar
7	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity Say 1.248 sqm @ Rs 1393.80 / sqm	he wall with the help of screws an 1.248 sqm Rs 1739.46
	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity Say 1.248 sqm @ Rs 1393.80 / sqm 13 BUILDERS WORK FOR OUT DOOR USS AND D	he wall with the help of screws an 1.248 sqm Rs 1739.46
7	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity Say 1.248 sqm @ Rs 1393.80 / sqm	he wall with the help of screws an 1.248 sqm Rs 1739.46 OG SET vator)/manual means over area n) including disposal of excavate
	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look <u>Other Engineering Net Total Quantity</u> Say 1.248 sqm @ Rs 1393.80 / sqm <u>13 BUILDERS WORK FOR OUT DOOR USS AND D</u> 2.6.1 Earth work in excavation by mechanical means (Hydraulic excar (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on pla earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level	he wall with the help of screws an 1.248 sqm Rs 1739.46 OG SET vator)/manual means over area n) including disposal of excavate
	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity Say 1.248 sqm @ Rs 1393.80 / sqm 13 BUILDERS WORK FOR OUT DOOR USS AND D 2.6.1 2.6.1 Earth work in excavation by mechanical means (Hydraulic excar (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on pla earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil	he wall with the help of screws an 1.248 sqm Rs 1739.46 DG SET vator)/manual means over area n) including disposal of excavate led and neatly dressed.All kinds
	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look Other Engineering Net Total Quantity Say 1.248 sqm @ Rs 1393.80 / sqm 13 BUILDERS WORK FOR OUT DOOR USS AND D 2.6.1 2.6.1 Earth work in excavation by mechanical means (Hydraulic excav (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on pla earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity	he wall with the help of screws an 1.248 sqm Rs 1739.46 DG SET vator)/manual means over area n) including disposal of excavate led and neatly dressed.All kinds 2.220 cum Rs 366.46 excluding the cost of centering ar
1	Printing of floor plans on approx. A2 size poster sheet with indelible acrylic sheet and 1" studs complete. The floor plans will be fixed on the double tape etc. to give neat & finished look         Other Engineering Net Total Quantity         Say 1.248 sqm @ Rs 1393.80 / sqm         13 BUILDERS WORK FOR OUT DOOR USS AND D         2.6.1         Earth work in excavation by mechanical means (Hydraulic excar (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on pla earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil         Net Total Quantity         Say 2.220 cum @ Rs 165.07 / cum         4.1.3         Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specified grade e shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand some concrete of specifie	he wall with the help of screws an 1.248 sqm Rs 1739.46 OG SET vator)/manual means over area n) including disposal of excavate led and neatly dressed.All kinds 2.220 cum Rs 366.46 excluding the cost of centering an

3	4.1.8		
	Providing and laying in position cement concrete of specified grade e shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse san nominal size)	•	•
	Net Total Quantity	2.088 cum	
	Say 2.088 cum @ Rs 5869.06 / cum	Rs	12254.60
4	4.3.1		
	Centering and shuttering including strutting, propping etc. and remo footings, bases for columns	oval of form w	ork for:Foundati
	Net Total Quantity	8.400 sqm	
	Say 8.400 sqm @ Rs 254.19 / sqm	Rs	2135.20
	14 CONTINGENCIES		
		Rs 307321.00	
	Lump-Sum Total		
	Lump-Sum Total Provision for GST paymen		12.0%
		ts (in %) @	
	Provision for GST paymen	ts (in %) @ 37	12.0%
	Provision for GST paymen Amount reserved for GST payments	ts (in %) @ 37	12.0% 24734.80
	Provision for GST paymen Amount reserved for GST payments Total	ts (in %) @ 37 34	12.0% 24734.80 764191.80 0.00
	Provision for GST paymen Amount reserved for GST payments Total	ts (in %) @ 37 34 7 TOT	12.0% 24734.80 764191.80

(Cost Index Applied for this estimate is 31.06%)