TS Register No: 272/2019-2020 AS Register No:295/2019-2020

UP-GRADATION OF GOVT ITI DAHANUVACHAPURAM ON PAR WITH INTERNATIONAL STANDARDS-OTHER INFRASTRUCTURAL FACILITIES AND SERVICES, PHASE-1, REV-2

Abstract Estimate

(Dsor year: 2016, Cost Index Applied for this estimate is 37.93%)

	1 ROADS AND ANCILLARY WORKS	
1	Preparation and consolidation of sub grade with power road rolle excavating earth to an average of 22.5 cm depth, dressing to camber including making good the undulations etc. and re-rolling the sub grade lead upto 50 metres.	r and consolidating with road rolle
	Net Total Quantity	1412.000 sqm
	Say 1412.000 sqm @ Rs 124.27 / sqm	Rs 175469.24
2	16.78.3 Construction of granular sub- base by Providing close graded Matmixing in a mechanical mix plant at OMC, Carriage of mixed material & lifts, spreading in uniform layers of specified thickness with moto compacting with vibratory power roller to achieve the desired density, directions of Engineer-in- Charge. With material conforming to Grade mm) having CBR Value - 20	by tippers to work site, for all lead r grader on prepared surface and complete as per specifications and
	Other Engineering Organisation	141.201 cum
	Say 141.201 cum @ Rs 2664.12 / cum	Rs 376176.41
3	Providing, laying spreading and compacting graded stone aggregate (wet mix macadam (WMM) specification including premixing the material mix plant, carriage of mixed material by tipper to site, for all leads & mechanical paver finisher in sub - base / base course on well preparation of the stone of the stone capacity to achieve the desired dense and directions of Engineer - in- Charge.	al with water at OMC in mechanica lifts, laying in uniform layers with ared surface and compacting with
	Net Total Quantity	211.800 cum
	Say 211.800 cum @ Rs 2941.01 / cum	Rs 622905.92
4	51.16.PC.1pb Primer Coat - Bitumen Emulsion (SS-1) - Using Packed Bitumen Rates Providing and applying primer coat with bitumen emulsion (SS-1) on including cleaning of road surface and spraying primer at the rate of 0 means as per Technical Specification Clause 502 (low porosity).	prepared surface of granular base
	Net Total Quantity	1412.000 sqm

5	od21449/2019_2020 2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per and 11.2 mm size respectively, including a tack coat with hot straight with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be Asphalt grade VG - 10 heated and then mixed with solvent at the rate ITEM NO.16.33.1)	cum of stone chippings of 13.2 mm run bitumen, including consolidation be paid for separately): With paving
	Net Total Quantity	1412.000 sqm
	Say 1412.000 sqm @ Rs 233.96 / sqm	Rs 330351.52
6	51.16.31.1.2 Tack Coat - RS Bitumen Emulsion - On bituminous surface @ 0.25 kg Providing and applying tack coat using bitumen emulsion conform pressure distributor including preparing the surface & cleaning with 1. With Rapid Setting Bitumen Emulsion 2. On bituminous surface @ 0.25 kg /sqm	ning to IS: 8887, using emulsion
	Net Total Quantity	1412.000 sqm
	Say 1412.000 sqm @ Rs 10.49 / sqm	Rs 14811.88
7	od21457/2019_2020 Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 mid sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen per cum of fine aggregate and cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road rolle complete.(DSR ITEM NO 16.40)	
	Net Total Quantity	1412.000 sqm
	Say 1412.000 sqm @ Rs 82.06 / sqm	Rs 115868.72
8	od21461/2019_2020 Providing and laying average 100 mm thick sub grade of compacted stone aggregate mixed with sand Zone V, including spreading, well rasmooth etc. all complete as per direction of Engineer-in-charge.	
	Net Total Quantity	22.000 sqm
	Say 22.000 sqm @ Rs 270.46 / sqm	Rs 5950.12
9	16.42 Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone a pavements, laid to required slope and camber in panels as required in tamping complete	,
	Net Total Quantity	22.000 cum
	Say 22.000 cum @ Rs 7591.39 / cum	Rs 167010.58

	Net Total Quantity	90.000 per cm depth per cm width per meter length
Say	v 90.000 per cm depth per cm width per meter length @ Rs 3.03 / per cm depth per cm width per meter length	Rs 272.70
11	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, multing thick base of cement mortar 1:4 (1 cement: 4 coarse sand) in all shape joints with white cement mixed with matching pigments etc. comple Charge.	622 of approved make in all colours nodals location etc., laid on 20mm es & patterns including grouting the
	Net Total Quantity	220.000 sqm
	Say 220.000 sqm @ Rs 2000.61 / sqm	Rs 440134.20
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 cements and), including making joints with or without grooves (thickness of jot to more than 5 mm), including making drainage opening wherever requof 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 pints except at sharp curve shall not uired complete etc. as per direction
	Net Total Quantity	33.000 cum
	Other Say 33.000 cum @ Rs 6913.95 / cum	ns Rs 228160.35
13	od21487/2019_2020 two coats after filling the surface with synthetic enamel paint in all surfaces	shades on new plastered concrete
	Net Total Quantity	88.000 sqm
	O 00 000 @ D 00 40 /	
	Say 88.000 sqm @ Rs 93.43 / sqm	Rs 8221.84
14	od21492/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointir kgf/cm2	
14	od21492/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointir	
14	od21492/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointir kgf/cm2	ng and make good, 110 mm pipe
14	od21492/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointinkgf/cm2 Net Total Quantity	ng and make good, 110 mm pipe 4 12.100 metre Rs 2700.72 all size 65x65x160 cm and 4 nos
	od21492/2019_2020 Providing and fixing PVC pipe pieces in weep holes by hacking,jointinkgf/cm2 Net Total Quantity Say 12.100 metre @ Rs 223.20 / metre od21493/2019_2020 Construct foundation for lighting pole using M30 concrete of overa M20x75cm long anchor bolt set in concrete using 4mm thick ancher	ng and make good, 110 mm pipe 4 12.100 metre Rs 2700.72 all size 65x65x160 cm and 4 no

16	od21494/2019_2020		
	Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of avex 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as	_	
	Net Total Quantity	249.000 metre	
	Say 249.000 metre @ Rs 5627.16 / metre	Rs 1401162.84	
	2 LAND DEVELOPMENT		
1	2.32 Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the cleared.		
	Net Total Quantity	5400.000 sqm	
	Say 5400.000 sqm @ Rs 5.03 / sqm	Rs 27162.00	
	Clearing jungle including uprooting of rank vegetation, grass, brush we to 30 cm measured at a height of 1 m above ground level and removem outside the periphery of the area cleared	al of rubbish up to a distance o	
	Net Total Quantity	2450.000 sqm	
	J 27 1 1 1 JAN 200 AND 1 1 1 1 1		
3	Say 2450.000 sqm @ Rs 9.93 / sqm 2.33.1 Falling trace of the girth (measured at a height of 1 m shave ground by	Rs 24328.50	
3	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth	evel) including cutting of trunks fal and disposal of unservices	
3	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground leads to branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth. Net Total Quantity	evel) including cutting of trunks all and disposal of unservices 3.000 each	
3	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth	evel) including cutting of trunks ial and disposal of unservices 3.000 each Rs 907.02 evel) including cutting of trunks	
	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth Net Total Quantity Say 3.000 each @ Rs 302.34 / each 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 materials)	evel) including cutting of trunks ial and disposal of unservices 3.000 each Rs 907.02 evel) including cutting of trunks	
	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth Net Total Quantity Say 3.000 each @ Rs 302.34 / each 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 material. Beyound 60 cm girth up to and including 120 cm girth	evel) including cutting of trunks all and disposal of unservices 3.000 each Rs 907.02 evel) including cutting of trunks all and disposal of unservices	
	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth Net Total Quantity Say 3.000 each @ Rs 302.34 / each 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 material. Beyound 60 cm girth up to and including 120 cm girth Net Total Quantity Say 12.000 each @ Rs 1341.65 / each 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 ground for the proof of the girth (measured at a height of 1 m above ground le branches).	evel) including cutting of trunks all and disposal of unservices all 3.000 each Rs 907.02 evel) including cutting of trunks all and disposal of unservices all and disposal of unservices all and expose all and expos	
4	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground le branches, removing the roots and stacking of serviceable material. Beyound 30 cm girth up to and including 60 cm girth. Net Total Quantity Say 3.000 each @ Rs 302.34 / each 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 material. Beyound 60 cm girth up to and including 120 cm girth. Net Total Quantity Say 12.000 each @ Rs 1341.65 / each 2.2.1 Earth work in rough excavation, banking excavated earth in layer breaking clods, watering, rolling each layer with 1/2 tonne roller or work every 3rd and top-most layer with power roller of minimum 8 tonnes and stacking of serviceable material.	evel) including cutting of trunks all and disposal of unservices and 3.000 each Rs 907.02 evel) including cutting of trunks all and disposal of unservices all and disposal of unservices are all and exposed and exposed are not exceeding 20 cm in decoden or steel rammers, and round dressing up in embankments	

	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	5400.000 sqm
	Say 5400.000 sqm @ Rs 19.24 / sqm	Rs 103896.00
	3 EXTERNAL WATER SUPPLY	
1	od21450/2019_2020 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, tren refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia 10K	
	Net Total Quantity	40.000 metre
	Say 40.000 metre @ Rs 842.90 / metre	Rs 33716.00
2	od21454/2019_2020 Providing and fixing PVC pipes includings jointing of pipes with one st refilling & testing of joints complete as per direction of Engineer in Characteristics.	·
	Net Total Quantity	240.000 metre
	Say 240.000 metre @ Rs 507.91 / metre	Rs 121898.40
3	od21479/2019_2020 Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Manual) with CI body SS disk, Northern seal and O-ring P16 pressure rating for water circulation as specified.	
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as s	specified.
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Ma	· ·
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some Commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some c	specified.
4	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some of the Engineering Net Total Quantity	Rs 15714.04 Rs 15714.04 A cement mortar 1:4 (1 cement (inside) with hinged cover fixed stone aggregate 20 mm noment: 5 fine sand: 10 graded stoortar 1:3 ortar 1:3 ortar 2 coanent complete as per standard.
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as a Net Total Quantity Say 4.000 each @ Rs 3928.51 / each od21484/2019_2020 Constructing masonry chamber 30x40x60 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 graded size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement aggregate 40 mm nominal size) and inside plastering with cement mesand) 12 mm thick, finished with a floating coat of neat cement.	Rs 15714.04 Rs 15714.04 A cement mortar 1:4 (1 cement (inside) with hinged cover fixed stone aggregate 20 mm nominant: 5 fine sand: 10 graded stoortar 1:3 ortar 1:3 ortar 2 coannent complete as per standard.
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as a Supply of the Engineering Net Total Quantity Say 4.000 each @ Rs 3928.51 / each od21484/2019_2020 Constructing masonry chamber 30x40x60 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 graded size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement aggregate 40 mm nominal size) and inside plastering with cement mesand) 12 mm thick, finished with a floating coat of neat cement design: br> With common burnt clay F.P.S (non modular) bricks	Rs 15714.04 Rs 15714.04 A cement mortar 1:4 (1 cement (inside) with hinged cover fixed stone aggregate 20 mm nominant: 5 fine sand: 10 graded stoortar 1:3 ortar 1:3 ortar 1:3 ortar 1:3 complete as per standards of class designation 7.5
	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation	Rs 15714.04 Rs 15714.04 A cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nominent: 5 fine sand: 10 graded stoortar 1:3 ortar 1:3 ortar 1:3 ortar 1:3 ortar 1:3 fine sand: 10 graded stoortar 1:3 ortar 1:4 (1 cement over fixed
4	Supply, fixing, testing, commissioning 65mm dia Butterfly valve (Marubber seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation as some seal and O-ring P16 pressure rating for water circulation	Rs 15714.04 Rs 15714.04 A cement mortar 1:4 (1 cement (inside) with hinged cover fixed d stone aggregate 20 mm nominent: 5 fine sand: 10 graded stoortar 1:3 ortar 1:3 ortar 1:3 ortar 1:3 ortar 1:3 fine sand: 10 graded stoortar 1:3 ortar 1:4 (1 cement over fixed

6	od21441/2019_2020	
	Extra over for Providing and laying cement concrete 1:5:10 (1 cement aggregate 40 mm nominal size) all - round underground PVC pipes.	:: 5 coarse sand : 10 graded ston
	Net Total Quantity	21.622 cum
	Say 21.622 cum @ Rs 5805.55 / cum	Rs 125527.60
7	18.19.5.2 Providing and fixing gun metal non-return valve of approved quality (screwed end):65 mm no boreVertical	
	Net Total Quantity	2.000 each
	Say 2.000 each @ Rs 2455.36 / each	Rs 4910.72
8	od21491/2019_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 24819.80 / each	Rs 49639.60
	4 EXTERNAL SEWERAGE SYSTEM	
1	50.18.9.10.1	
	Providing and fixing PVC pipes includings jointing of pipes with one significant refilling & testing of joints complete as per direction of Engineer in Ch	
	refilling & testing of joints complete as per direction of Engineer in Ch	arge. 150 mm dia 6 Kgf/cm2
2	refilling & testing of joints complete as per direction of Engineer in Ch Other Engineering Net Total Quantity	arge. 150 mm dia 6 Kgf/cm2 280.000 metre Rs 228074.00 ith RCC M20 over leveling course concrete in 1:3:6 mix with 40m with Ductile iron hinged man houside with M20 mix , plastering that thick two coats finished smoot I classes of soil except hard roof.
2	refilling & testing of joints complete as per direction of Engineer in Chenne Page 19 Net Total Quantity Say 280.000 metre @ Rs 814.55 / metre od21436/2019_2020 Constructing Manhole/ chamber for inspection of sewer lines, etc. w 150mm thick and 50mm thick projection on all sides with cement nominal size hard granite broken stones, RCC top slab 100mm thick cover 560x560mm (heavy duty) forming channels at the bottom insinside and exposed surfaces of chamber with cement mortar 1:4, 12n with a floating coat of cement including cost of all earth work in all requiring blasting, back filling the sides, watering and consolidating of	arge. 150 mm dia 6 Kgf/cm2 280.000 metre Rs 228074.00 ith RCC M20 over leveling course concrete in 1:3:6 mix with 40m with Ductile iron hinged man houside with M20 mix , plastering that thick two coats finished smoot I classes of soil except hard roof.

3	od21437/2019_2020	
3	Constructing brick masonry manhole in cement mortar 1:4 (1 cemer	nt : 4 coarse sand) with R.C.C. top
	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	sand) finished with floating coat of
	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 60x60 cm and 60 cm deep including C.I. cover dia internal dimensions, With Sewer bricks conforming to IS: 4885	with frame (medium duty) 500 mm
	Net Total Quantity	28.000 each
	·	
	Say 28.000 each @ Rs 15964.34 / each	Rs 447001.52
4	od21441/2019_2020	
	Extra over for Providing and laying cement concrete 1:5:10 (1 cemen	t : 5 coarse sand : 10 graded stone
	aggregate 40 mm nominal size) all - round underground PVC pipes.	
	Net Total Quantity	23.560 cum
	Say 23.560 cum @ Rs 5805.55 / cum	Rs 136778.76
5	od21464/2019_2020	
	Supplying and installing ready made reinforced concrete Septic tal	nk for 100 users cylindrical shape
	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	ovision for CC/RCC/Sand/06mm
	aggregate for the preparation of bed shall be paid separately)	
	Other Engineering Net Total Quantity	3.000 each
	Say 3.000 each @ Rs 52798.55 / each	Rs 158395.65
6	19.33	1,
	Constructing soak pit 1.20x1.20 m filled with brickbats including S.W.	/. drain pipe 100 mm diameter and
	1.20 m long complete as per standard design.	
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 2919.15 / each	Rs 2919.15
	5 RAIN WATER DRAINAGE	
1	50.18.9.10.1	
	Providing and fixing PVC pipes includings jointing of pipes with one s	tep pvc solvent cement, trenching,
	refilling & testing of joints complete as per direction of Engineer in Ch	arge. 150 mm dia 6 Kgf/cm2
	Net Total Quantity	240.000 metre
	Say 240.000 metre @ Rs 814.55 / metre	Rs 195492.00

2	od21432/2019_2020 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: design: Standard Standard	
	Net Total Quantity	12.000 each
	Say 12.000 each @ Rs 6637.91 / each	Rs 79654.92
3	Od21437/2019_2020 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. t with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundati concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) insi plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded sto aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standadesign: design: Inside size 60x60 cm and 60 cm deep including C.I. cover with frame (medium duty) 500 m dia internal dimensions, With Sewer bricks conforming to IS : 4885	
	Net Total Quantity	8.000 each
	Say 8.000 each @ Rs 15964.34 / each	Rs 127714.72
4	od21441/2019_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	: 5 coarse sand : 10 graded stone
	•	
5	Say 14.896 cum @ Rs 5805.55 / cum Rs 86479.47 od21446/2019_2020 Supply all material and construct RCC rain water filtration tank cum collection tank of overall s 5.1x2.65x1.60m using 1:1.5:3 concrete mix etc. all complete as per the drawing and specificat	
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 225959.88 / each	Rs 225959.88
	6 EXTERNAL LIGHTING	
1	od24214/2019_2020 SITC Of feeder pillar complete with the following accessories. br>Incomer: 40A, DP Isolator br> 4 DP, RCCB, 100mA br> Timer control with contactor br> Auto/ Manual switch br>Outgoing: 10A, MCB - 4 Nos.	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 13559.00 / no	Rs 13559.00

2	od21469/2019_2020 Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for w voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for	
	Net Total Quantity	320.000 metre
	Say 320.000 metre @ Rs 95.00 / metre	Rs 30400.00
3	od21472/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level including connection/ termination with GI thimble etc. as required.	el for conductor earth electro
	Net Total Quantity	160.000 metre
	Say 160.000 metre @ Rs 105.21 / metre	Rs 16833.60
4	od21476/2019_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	80.000 metre
	Say 80.000 metre @ Rs 151.00 / metre	Rs 12080.00
	Supply, installation, testing and commissioning of 6 Meter street light lumen LED, IP 65 street light fitting with aluminium housing, stove en cover, acrylic cover complete with THD <10%, power factor >0.98, Rol on 230 V AC supply. Other Engineering Net Total Quantity Country of the control of the contro	ameled CRCA sheet steel refle HS compliant, duly wired up for
	Say 12.000 no @ Rs 19366.62 / no	Rs 232399.44
6	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power size direct in ground including excavation, sand cushioning, protective as required. Upto 35 sq. mm	
	Net Total Quantity	20.000 metre
	Say 20.000 metre @ Rs 284.14 / metre	Rs 5682.80
7	od21478/2019_2020 Supply, drawing & giving connection for street light/post top lantern/external light points from jun box/DB with of 1.5 sqmm 3 core PVC / XLPE insulated armoured control cables with copper conduction for working voltages up to and including 1100 V conforming to IS 1554 part I 1988 for PVC and IS Part If for XLPE, in the existing surface / recessed steel/ PVC conduit as required by 1.5 sq.mm x 3	
	Net Total Quantity	100.000 metre
	Say 100.000 metre @ Rs 157.86 / metre	Rs 15786.00
8	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.	<u>=</u>

	Net Total Quantity	24.000 metre
	Say 24.000 metre @ Rs 24.83 / metre	Rs 595.92
9	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 w	•
	Net Total Quantity	60.000 metre
	Say 60.000 metre @ Rs 34.48 / metre	Rs 2068.80
10	14.14.2 Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete w collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm decrefilling etc as required.150 mm dia	
	Net Total Quantity	16.000 metre
	Say 16.000 metre @ Rs 558.62 / metre	Rs 8937.92
	7 DG, CHANGE OVER PANEL AND MODIFICATION OF EXI	STING PANELS
	powder coated, bus-bar chamber, outgoing switchgear etc. (a mentalized), color coded PVC sleeved vertical / horizontal Aluminium bus-bar distances shall be minimum 32 mm) insulators, hardware interconnecting single core multi strand lugged copper wire having suitable capacity & size with lugs from busbar to switchgears / MC control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicate size 25 x 5 mm copper with nut & bolts at outside of the panel, rating outgoings etc comprising with the followings as per the KEI standard Contactors – ABB, L&T/Equivalent. Strandard Contactors – ABB, L&T/Equivalent.	busbar of required size of lengther neoprene gasket, hinged dog current density of 2A / sqmm CB / MCB or where ever required by two earthing terminal busbar and name plates for all incoming the companion of the
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 292373.00 / no	Rs 292373.00
2	od24220/2019_2020 SITC of DG br>SITC of 320kVA, 415V DG with DG control panel, MCCB at outgoing with earth fover-current protection, fuel tank with capacity for 8hrs of operation, acoustic enclosure etc as per norms. br>	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 2033899.00 / no	Rs 2033899.00
3	od21447/2019_2020 Supply of 400 sqmm 3.5 core PVC/XLPE insulated armoured cab working voltages up to and including 1100 volts conforming IS 1584/pa XLPE	

	Net Total Quantity	55.000 metre
	Say 55.000 metre @ Rs 2195.00 / metre	Rs 120725.00
	· ·	113 120123.00
4	od21451/2019_2020 Supply of 3.5C X 300 Sq.mm AYFY Cable	
	Net Total Quantity	60.000 metre
	Say 60.000 metre @ Rs 1731.00 / metre	Rs 103860.00
5	· ·	110 10000100
	9.1.30 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV gravequired.3 1/2X 300 sq. mm (70mm)	
	Net Total Quantity	4.000 set
	Say 4.000 set @ Rs 1525.51 / set	Rs 6102.04
	Supplying and making end termination with brass compression glan size of PVC insulated and PVC sheathed / XLPE aluminium conrequired.3 1/2X 400 sq. mm (82mm)	-
	Net Total Quantity	4.000 set
	Cov. 4 000 ant @ Do 4045 05 / ant	
	Say 4.000 set @ Rs 1915.85 / set	Rs 7663.40
7	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)	LPE power cable of 1.1 KVgrade I upto 400 sq. mm (clamped w
7	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	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre
8	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)	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre Rs 5793.20 LPE power cable of 1.1 KVgrade
	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 Say 35.000 metre @ Rs 165.52 / metre 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	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre Rs 5793.20 LPE power cable of 1.1 KVgrade
	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 Say 35.000 metre @ Rs 165.52 / metre 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)	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre Rs 5793.20 LPE power cable of 1.1 KVgrade 100 sq. mm (clamped with 40x3n
	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 Say 35.000 metre @ Rs 165.52 / metre 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) Net Total Quantity	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre Rs 5793.20 LPE power cable of 1.1 KVgrade 100 sq. mm (clamped with 40x3n 40.000 metre Rs 5296.40 er cable of 1.1 KV grade offollowing
8	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 Say 35.000 metre @ Rs 165.52 / metre 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) Net Total Quantity Say 40.000 metre @ Rs 132.41 / metre 7.1.4 Laying of one number PVC insulated and PVC sheathed / XLPE powersize direct in ground including excavation, sand cushioning, protective	LPE power cable of 1.1 KVgrade upto 400 sq. mm (clamped w 35.000 metre Rs 5793.20 LPE power cable of 1.1 KVgrade 100 sq. mm (clamped with 40x3m 40.000 metre Rs 5296.40 er cable of 1.1 KV grade offollowi

10	5.6	
	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick in	•
	masonry enclosure with cover plate having locking arrangement and	watering pipe of 2.7 metre long
	with charcoal/ coke and salt as required.	
	Net Total Quantity	3.000 set
	Say 3.000 set @ Rs 11433.02 / set	Rs 34299.06
11	5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earthelectincluding connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.(Jointing shadone by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	
	Net Total Quantity	100.000 metre
	Say 100.000 metre @ Rs 117.24 / metre	Rs 11724.00
12	5.15	
	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for	or connections etc. as required.
	Net Total Quantity	20.000 metre
	Say 20.000 metre @ Rs 177.93 / metre	Rs 3558.60
13	od24224/2019_2020 Modification of Existing MSB to incorporate 320A, 36kA, 3P MCCB & panels complete with TP & N Busbar, extention of panels etc.	250A, 36kA, 3P MCCB for the n
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 93220.00 / no	Rs 93220.00
14	od24226/2019_2020	
	APFC Panel Modification(Dhanuvachapuram) Supply, installati	_
	APFC(existing) by the modification of old APFC panel to accommo	odate total of 65 kVAr capacito
	steps, contactors, MCCB, indicators, inductors etc. 	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 186441.00 / no	Rs 186441.00
	8 RELOCATION OF WORKSHOP ELECTRICAL W	ORKS
1	od24227/2019_2020 Temporary Wiring of 6/16Aplugsocket including switch box wiring, or required.	clamping etc through PVC pipe
	Net Total Quantity	80.000 no
	Say 80.000 no @ Rs 1102.00 / no	Rs 88160.00
2	od21429/2019_2020	
	Relocation of SSB from Building No. 4 to Building No.2 CNC workshop	o)
	Net Total Quantity	1.000 no
	Say 1,000 no @ Rs 10000 00 / no	Rs 10000.00
2	od21429/2019_2020 Relocation of SSB from Building No. 4 to Building No.2 CNC workshop))

3	od21433/2019_2020 Releastion of SSR from Building No. 4 to Building No. 9 (SMM/ Blumbing No. 9)	ng and Wireman werkehan)
	Relocation of SSB from Building No. 4 to Building No.8 (SMW, Plumbing No. 4 to Building No. 8 (SMW, Plumbing No. 4 to Building No. 8 (SMW, Plumbing No. 8 (S	
	Net Total Quantity	3.000 no
	Say 3.000 no @ Rs 5000.00 / no	Rs 15000.00
4	od24228/2019_2020 Relocation of MDB from Building No. 4 to Building No.5 (Dhanuvachap	puram)
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 12750.00 / no	Rs 12750.00
5	od21443/2019_2020	
3	Temporary cabling laying from existing MSB to MDB (TDM workshop)	
	Net Total Quantity	150.000 metre
	Say 150.000 metre @ Rs 50.00 / metre	Rs 7500.00
6	od24230/2019_2020	
U	Relocation of SSB from existing workshop Building No. 4 to Building N	o.5(TDM workshop)
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 12750.00 / no	Rs 12750.00
	Sav 1.000 H0 @ RS 12/30.00 / H0	KS 12/30.00
7	od21452/2019_2020	-
7	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	38 for PVC IS 7098 part I for XL
7	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity	38 for PVC IS 7098 part I for XL 400.000 metre
7	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198	38 for PVC IS 7098 part I for XL
	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable	38 for PVC IS 7098 part I for XL 400.000 metre Rs 95200.00
	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity	38 for PVC IS 7098 part I for XL 400.000 metre Rs 95200.00
8	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre	38 for PVC IS 7098 part I for XL 400.000 metre Rs 95200.00
	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020	38 for PVC IS 7098 part I for XL 400.000 metre Rs 95200.00
8	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable	150.000 metre Rs 95200.00 150.000 metre Rs 134100.00
8	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable Net Total Quantity	150.000 metre Rs 95200.00 150.000 metre Rs 134100.00
8	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable	150.000 metre Rs 95200.00 150.000 metre Rs 134100.00
8	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable Net Total Quantity	150.000 metre Rs 95200.00 150.000 metre Rs 134100.00 160.000 metre Rs 100480.00 d and aluminium lugs for follow
9	od21452/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with voltages up to and including 1100 volts conforming IS 1584/part I/198 Other Engineering Net Total Quantity Say 400.000 metre @ Rs 238.00 / metre od21455/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable Net Total Quantity Say 150.000 metre @ Rs 894.00 / metre od21459/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable Net Total Quantity Say 160.000 metre @ Rs 628.00 / metre 9.1.24 Supplying and making end termination with brass compression glan size of PVC insulated and PVC sheathed / XLPE aluminium con	150.000 metre Rs 95200.00 150.000 metre Rs 134100.00 160.000 metre Rs 100480.00 d and aluminium lugs for follow

siz rec 12 9.1 Su siz	pplying and making end termination with brass compression gland ze of PVC insulated and PVC sheathed / XLPE aluminium conquired.3 1/2 X 150 sq. mm (50mm) Net Total Quantity Say 2.000 set @ Rs 816.55 / set 1.34 Ipplying and making end termination with brass compression gland ze of PVC insulated and PVC sheathed / XLPE aluminium conquired.4 X 25 sq. mm (28mm)	2.000 set Rs 1633.10 d and aluminium lugs for followir
12 9.1 Su siz	Net Total Quantity Say 2.000 set @ Rs 816.55 / set 1.34 Ipplying and making end termination with brass compression glan are of PVC insulated and PVC sheathed / XLPE aluminium conquired.4 X 25 sq. mm (28mm)	2.000 set Rs 1633.10 d and aluminium lugs for following
12 9.1 Su siz	Net Total Quantity Say 2.000 set @ Rs 816.55 / set 1.34 applying and making end termination with brass compression glance of PVC insulated and PVC sheathed / XLPE aluminium conquired.4 X 25 sq. mm (28mm)	Rs 1633.10 d and aluminium lugs for followi
Su siz	Say 2.000 set @ Rs 816.55 / set 1.34 applying and making end termination with brass compression glance of PVC insulated and PVC sheathed / XLPE aluminium conquired.4 X 25 sq. mm (28mm)	Rs 1633.10 d and aluminium lugs for followi
Su siz	1.34 upplying and making end termination with brass compression glance of PVC insulated and PVC sheathed / XLPE aluminium corquired.4 X 25 sq. mm (28mm)	d and aluminium lugs for followi
Su siz	applying and making end termination with brass compression glange of PVC insulated and PVC sheathed / XLPE aluminium conquired.4 X 25 sq. mm (28mm)	-
	Not Total Quantity	
	Net Total Quantity	40.000 set
	Say 40.000 set @ Rs 355.86 / set	Rs 14234.40
	21471/2019_2020 mporary cabling laying from MDB Building No 5 to SSB at building N	No.8,2
	Net Total Quantity	160.000 metre
	Say 160.000 metre @ Rs 50.00 / metre	Rs 8000.00
	9 EXISTING CLASS ROOMS CONVERTED TO SMART CL	ASS ROOMS
Ma TE 1.2 sqi	uivalent Table for with 25 mm top, square tubular frame. Overa aterial Description: Main top 25mm thick wood based high quality Press with 2mm PVC edge band by hot melt glue process for bea 21mm thick. (18swg) CRAC sheet IS 513. Table frame structure ruare tube 25x25mm of 18swg. Good quality PVC Shoes. All steel with the thickness not less than 50 microns finish after ade phosphating.	re-laminated Particle Board(PLB) ading all over edge. Top frame made up of prime quality MS EF el parts should be epoxy polyes
	Net Total Quantity	11.000 each
	Say 11.000 each @ Rs 8239.56 / each	Rs 90635.16
Su Ex (cn thic ave tes >b	21427/2019_2020 apply,deliver and place Trademark registered branded (JALARA eccutive Visitor Net Chair, br>Frame structure: Backrest made of Mesh and Seat from hot ckness of ergonomic design to avoid back pain. Chrome-plated erage weight required 400 to 490 gms per sq. mtr. br>Tapestry st, ultra violet test,glue test br>Cushioning: PU foam having density of 50 kgs/m3 for seat. Aver an 50 mm + 10 mm Polly foam. br>Arm rest material: Polyurethalber	x D-63.5 (cm) br>Seat Height: mould plywood of minimum 12 r Arm & Frame 'Tapestry: Minimum's will be tested quality such as stight of 450 grams per square meage br>thickness of foam not lead
Ru		11 000 oach
	Net Total Quantity Say 11.000 each @ Rs 13013.72 / each	11.000 each Rs 143150.92

3	od21430/2019_2020 Supply deliver and place Trademark registered branded (JALARAM I Seater Desk Cum Bench fitted on tubular frame with perfor Students. 	ated seat and back for Senior >Seat Height: 460 mm Desk Top post formed Pre-laminated Particle t melt glue ERW round tube. For to f 25x25x1.6mm (16swg) thick. eet IS 513. br>Storage Bucket of & cap. All steel parts will be epoxy
	and B grade phosphating. Net Total Quantity	165.000 each
	Say 165.000 each @ Rs 8935.68 / each	Rs 1474387.20
4	od21434/2019_2020 Sypply and installation of Podium : 600x600x 1200mm ht.	
	Net Total Quantity	11.000 each
	Say 11.000 each @ Rs 19686.44 / each	Rs 216550.84
5	14.46 Removing dry or oil bound distemper, water proofing cement pain papering and preparing the surface smooth including necessary re	, ,, ,
	Other Engineering Net Total Quantity	11201.200 sqm
	Say 1201.200 sqm @ Rs 14.90 / sqm	Rs 17897.88
6	14.53.1 Wall painting with plastic emulsion paint of approved brand and manuor more coats on old work	facture to give an even shade:One
	Net Total Quantity	1201.200 sqm
	Say 1201.200 sqm @ Rs 76.21 / sqm	Rs 91543.45
7	14.54.1 Painting with synthetic enamel paint of approved brand and manufa even shade:One or more coats on old work	cture of required colour to an give
	Net Total Quantity	194.700 sqm
	Say 194.700 sqm @ Rs 70.76 / sqm	Rs 13776.97
8	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 hadhesive (water based) conforming to IS: 15477, in average 6 mm th (Payment for grouting of joints to be made separately). Size of Tile 600	proved brand & manufacturer,in all nigh polymer modified quick set tile ickness, including grouting of joints

	Net Total Quantity	396.000 sqm
	Say 396.000 sqm @ Rs 1711.16 / sqm	Rs 677619.36
	10 DEMOLITION WORKS	
1	15.2.2 Demolishing cement concrete manually / by mechanical means inclumetres lead as per direction of Engineer - in-Charge.Nominal conequivalent design mix)	• '
	Net Total Quantity	123.800 cum
	Say 123.800 cum @ Rs 848.48 / cum	Rs 105041.82
2	15.3 Demolishing R.C.C. work manually / by mechanical means including of unserviceable material with in 50 metres lead as per direction of E	•
	Net Total Quantity	657.150 cum
	Say 657.150 cum @ Rs 2006.26 / cum	Rs 1318413.76
3	15.7.4	
	Demolishing brick work manually / by mechanical means including st disposal of unserviceable material within 50 metres lead as per dispersion mortar	
	disposal of unserviceable material within 50 metres lead as per d	
	disposal of unserviceable material within 50 metres lead as per dicement mortar	lirection of Engineer-in-Charge
4	disposal of unserviceable material within 50 metres lead as per dicement mortar Net Total Quantity	843.770 cum Rs 980747.62 s including stacking of serviceal
4	disposal of unserviceable material within 50 metres lead as per dicement mortar Net Total Quantity Say 843.770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead	843.770 cum Rs 980747.62 s including stacking of serviceal
4	disposal of unserviceable material within 50 metres lead as per dicement mortar Net Total Quantity Say 843:770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead comment mortar	843.770 cum Rs 980747.62 s including stacking of serviceal ad as per direction of Engineer -
5	disposal of unserviceable material within 50 metres lead as per dicement mortar Net Total Quantity Say 843:770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead to the composition of the composition	Rs 980747.62 s including stacking of serviceal ad as per direction of Engineer - 223.000 cum Rs 309336.68 od) shutter including chowkha
	disposal of unserviceable material within 50 metres lead as per of cement mortar Net Total Quantity Say 843:770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead Charges:In cement mortar Net Total Quantity Say 223.000 cum @ Rs 1387.16 / cum 15.12.1 Dismantling doors, windows and clerestory windows (steel or works)	Rs 980747.62 s including stacking of serviceal ad as per direction of Engineer - 223.000 cum Rs 309336.68 od) shutter including chowkha
	disposal of unserviceable material within 50 metres lead as per of cement mortar Net Total Quantity Say 843.770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead Charges:In cement mortar Net Total Quantity Say 223.000 cum @ Rs 1387.16 / cum 15.12.1 Dismantling doors, windows and clerestory windows (steel or word architrave, holdfasts etc. complete and stacking within 50 metres lead	Rs 980747.62 Sincluding stacking of serviceal ad as per direction of Engineer - 223.000 cum Rs 309336.68 od) shutter including chowkhalad:Of area 3 sq. metres and believed.
	disposal of unserviceable material within 50 metres lead as per of cement mortar Net Total Quantity Say 843:770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead Charges:In cement mortar Net Total Quantity Say 223.000 cum @ Rs 1387.16 / cum 15.12.1 Dismantling doors, windows and clerestory windows (steel or word architrave, holdfasts etc. complete and stacking within 50 metres lead Net Total Quantity	Rs 980747.62 s including stacking of serviceal ad as per direction of Engineer - 223.000 cum Rs 309336.68 od) shutter including chowkhalad:Of area 3 sq. metres and bel 88.000 each
5	disposal of unserviceable material within 50 metres lead as per of cement mortar Net Total Quantity Say 843,770 cum @ Rs 1162.34 / cum 15.9.2 Demolishing stone rubble masonry manually / by mechanical means material and disposal of unserviceable material within 50 metres lead Charges:In cement mortar Net Total Quantity Say 223.000 cum @ Rs 1387.16 / cum 15.12.1 Dismantling doors, windows and clerestory windows (steel or word architrave, holdfasts etc. complete and stacking within 50 metres lead Net Total Quantity Say 88.000 each @ Rs 217.72 / each	Rs 980747.62 s including stacking of serviceal ad as per direction of Engineer - 223.000 cum Rs 309336.68 od) shutter including chowkha ad:Of area 3 sq. metres and bela 88.000 each

	15.18 Dismantling steel work in built up sections in angles, tees, flats a plates, boltd, nuts, cutting rivets, welding etc. including dismembering a	• •
	Net Total Quantity	11966.000 kg
	Say 11966.000 kg @ Rs 3.31 / kg	Rs 39607.46
8	15.28.2 Dismantling roofing including ridges, hips, velleys and gutters etc., a metres lead of :Asbestos Sheet	and stacking the material within
	Net Total Quantity	2392.000 sqm
	Say 2392.000 sqm @ Rs 45.31 / sqm	Rs 108381.52
9	15.60 Disposal of building rubbish/ malba/ similar unserviceable, dismantled means, including loading, transporting, unloading to approved municip by Engineer-in-charge, beyond 50 m initial lead, for all leads including	pal dumping ground or as approvall lifts involved
	Net Total Quantity	1736.000 cum
	Say 1736.000 cum @ Rs 166.27 / cum	Rs 288644.72
	1 6 1 35 6 2 1 1 7	
1	11 TEMPORARY BUILDING FOR STORE [100 M	И2]
1	11 TEMPORARY BUILDING FOR STORE [100 N	vator)/manual means over are n) including disposal of excava
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation gas earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kind
2	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation gas of the second second gas of the second searth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kinds 13.620 cum Rs 2366.07
	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on platearth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity Say 13.620 cum @ Rs 173.72 / cum 4.1.8 Providing and laying in position cement concrete of specified grade eshuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse says)	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kinds 13.620 cum Rs 2366.07
	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on platearth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity Say 13.620 cum @ Rs 173.72 / cum 4.1.8 Providing and laying in position cement concrete of specified grade estimates shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sat nominal size)	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kinds 13.620 cum Rs 2366.07 excluding the cost of centering and: 8 graded stone aggregate
	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plate earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity Say 13.620 cum @ Rs 173.72 / cum 4.1.8 Providing and laying in position cement concrete of specified grade estimates shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse satinominal size) Net Total Quantity	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kinds 13.620 cum Rs 2366.07 excluding the cost of centering a nd : 8 graded stone aggregate 10.100 cum Rs 62384.77 nt concrete, excluding the cos
2	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavation by mechanical means (Hydraulic excavation) (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plate earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be level soil Net Total Quantity Say 13.620 cum @ Rs 173.72 / cum 4.1.8 Providing and laying in position cement concrete of specified grade estimates and size) Net Total Quantity Say 10.100 cum @ Rs 6176.71 / cum 5.1.3 Providing and laying in position specified grade of reinforced ceme centering, shuttering, finishing and reinforcement - All work up to plints	vator)/manual means over are n) including disposal of excava led and neatly dressed.All kinds 13.620 cum Rs 2366.07 excluding the cost of centering a nd : 8 graded stone aggregate 10.100 cum Rs 62384.77 nt concrete, excluding the cost

4	50.6.1.1 Solid block masonry using pre cast solid blocks (factory made) of siz	e 40x20x20cm or nearest available
	size confirming to IS 2185 part 1 of 1979 for foundation and plinth with 1:6 (1 cement: 6 coarse sand) etc complete	
	Net Total Quantity	24.000 cum
	Say 24.000 cum @ Rs 5172.32 / cum	Rs 124135.68
5	50.6.5.2 Hollow block masonry using pre cast blocks (Factory made) of size size confirming to IS 2185 part 1 of 1979 for super structure up to floc CM 1:6 (1 cement : 6 coarse sand) etc complete	
	Net Total Quantity	4.500 cum
	Say 4.500 cum @ Rs 5041.70 / cum	Rs 22687.65
6	5.15	
	Providing, hoisting and fixing up to floor five level precast reinforced and bressumers including setting in cement mortar 1:3 (1 cement centering and shuttering but excluding the cost of reinforcement with, (Zone - III): 3 graded stone aggregate 20 mm nominal size)	: 3 coarse sand), cost of require
	Net Total Quantity	0.500 cum
	Say 0.500 cum @ Rs 11977.22 / cum	Rs 5988.61
7	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting binding all complete upto plinth levelThermo - Mechanically Treate Net Total Quantity	d bars of grade Fe-500D or mor
	Say 62.500 kilogram @ Rs 78.07 / kilogram	Rs 4879.38
8	10.16.1 Steel work in built up tubular (round, square or rectangular hollow cutting, hoisting, fixing position and applying a priming coat of approand bolted with special shaped washers etc. complete.Hot finished washers	ved steel primer, including weldir
	Net Total Quantity	1259.000 kg
	Say 1259.000 kg @ Rs 124.48 / kg	Rs 156720.32
9	13.4.2 12 mm cement plaster of mix:1:6 (1 cement : 6 coarse sand)	
	Net Total Quantity	118.000 sqm
	Say 118.000 sqm @ Rs 232.07 / sqm	Rs 27384.26
10	13.43.1 Applying one coat of water thinnable cement primer of approved	
	surface:Water thinnable cement primer Net Total Quantity	118.000 sqm

	Say 118.000 sqm @ Rs 50.97 / sqm	Rs 6014.46
11	10.2 Structural steel work riveted, bolted or welded in built up sections, to cutting, hoisting, fixing in position and applying a priming coat of applying	
	Net Total Quantity	550.000 kg
	Say 550.000 kg @ Rs 93.31 / kg	Rs 51320.50
12	12.1.3 Providing corrugate G.S. sheet roofing including vertical/ curved surfat hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet with white lead, including a coat of approved steel primer and overlapping of sheets complete (up to any pitch in horizontal / verticat cost of purlins, rafters and trusses and including cutting to size and thick with zinc coating not less than 275 gm/m2	rashers or with G.I. limpet washed two coats of approved paint I or curved surfaces), excluding t
	Net Total Quantity	124.000 sqm
	Say 124.000 sqm @ Rs 966.27 / sqm	Rs 119817.48
	20 A 400 may 10 A 500 may 10 A	
	duly reinforced with 1.60 +/- 0.2 mm thick galvanized mild steel section required length (shape & size according to uPVC profile), uPVC extra dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinger casement handles, G.I fasteners 100 x 8 mm size for fixing frame to fix caps and necessary stainless steel screws etc. Profile of frame & seel welded at all corners, mullion (if required) shall be also fusion welded hardware's and drainage of water etc. After fixing frame the gap betwell shall be filled with weather proof silicon sealant over backer rocquality, all complete as per approved drawing & direction of Engineer sash and mullion extruded profiles minus 5% tolerance in dimension be acceptable. Casement window double panels with top fixed with mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & thickness of 1.9 0.2 mm and single glazing bead of appropriate disusing 4mm thick frosted glass make Saint Gobain or approved equising).	ruded glazing beads of appropriates, zinc alloy (white powder coates, zinc alloy (white powder coates, plasses), shall be mitred cut and fusion including drilling of holes for fixitive frame and adjacent finished of required size and of approver-in-Charge.Note: For uPVC framilie. in depth & width of profile shows. S.S. friction hinges (350 x 19 x 10 mullion 47 x 68 mm all having with mension. Inclusive of glazing coates.
	required length (shape & size according to uPVC profile), uPVC extra dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinger casement handles, G.I fasteners 100 x 8 mm size for fixing frame to fix caps and necessary stainless steel screws etc. Profile of frame & seed welded at all corners, mullion (if required) shall be also fusion welded hardware's and drainage of water etc. After fixing frame the gap betwell shall be filled with weather proof silicon sealant over backer rocquality, all complete as per approved drawing & direction of Engineer sash and mullion extruded profiles minus 5% tolerance in dimension be acceptable. Casement window double panels with top fixed with mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & thickness of 1.9 0.2 mm and single glazing bead of appropriate displacement window double panels with top fixed with the same with the fixed with the fixed with the same with the fixed with the fixed with the same with the same with the same with the fixed with the same	n made from roll forming process ruded glazing beads of appropriates, zinc alloy (white powder coated nished wall, plastic packers, plast ash shall be mitred cut and fusing the line of holes for fixing the second process. The company of the line
	required length (shape & size according to uPVC profile), uPVC extra dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinger casement handles, G.I fasteners 100 x 8 mm size for fixing frame to fix caps and necessary stainless steel screws etc. Profile of frame & seed welded at all corners, mullion (if required) shall be also fusion welded hardware's and drainage of water etc. After fixing frame the gap betwell shall be filled with weather proof silicon sealant over backer rocquality, all complete as per approved drawing & direction of Engineer sash and mullion extruded profiles minus 5% tolerance in dimension be acceptable. Casement window double panels with top fixed with mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & thickness of 1.9 0.2 mm and single glazing bead of appropriate dispansions.	n made from roll forming process uded glazing beads of appropriates, zinc alloy (white powder coated nished wall, plastic packers, plast ash shall be mitred cut and fusing the first and adjacent finished of required size and of approver-in-Charge.Note: For uPVC francise. in depth & width of profile shall so. S. friction hinges (350 x 19 x 2 mullion 47 x 68 mm all having was mension. Inclusive of glazing covalent (Area of window upto 2.
14	required length (shape & size according to uPVC profile), uPVC extra dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinger casement handles, G.I fasteners 100 x 8 mm size for fixing frame to fit caps and necessary stainless steel screws etc. Profile of frame & standardware's and drainage of water etc. After fixing frame the gap betwell shall be filled with weather proof silicon sealant over backer rocquality, all complete as per approved drawing & direction of Engineers sash and mullion extruded profiles minus 5% tolerance in dimension be acceptable. Casement window double panels with top fixed with mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & thickness of 1.9 0.2 mm and single glazing bead of appropriate discussing 4mm thick frosted glass make Saint Gobain or approved equising 4mm. Net Total Quantity	n made from roll forming process uded glazing beads of appropriates, zinc alloy (white powder coated nished wall, plastic packers, plast ash shall be mitred cut and fusion including drilling of holes for fixing tween frame and adjacent finished of required size and of approver-in-Charge.Note: For uPVC framile. in depth & width of profile shall. S.S. friction hinges (350 x 19 x 2 mullion 47 x 68 mm all having was mension. Inclusive of glazing convalent (Area of window upto 2.) 6.000 sqm Rs 51217.80
14	required length (shape & size according to uPVC profile), uPVC extra dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinge casement handles, G.I fasteners 100 x 8 mm size for fixing frame to fix caps and necessary stainless steel screws etc. Profile of frame & sex welded at all corners, mullion (if required) shall be also fusion welded hardware's and drainage of water etc. After fixing frame the gap betwell shall be filled with weather proof silicon sealant over backer roof quality, all complete as per approved drawing & direction of Engineer sash and mullion extruded profiles minus 5% tolerance in dimension be acceptable. Casement window double panels with top fixed with mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & thickness of 1.9 0.2 mm and single glazing bead of appropriate diusing 4mm thick frosted glass make Saint Gobain or approved equisqm). Net Total Quantity Say 6.000 sqm @ Rs 8536.30 / sqm od26890/2019_2020 Supply and fixing steel doors with jamp of as per drawing and agree applicable taxes to the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge. The about the satisfaction of site Engineer in charge.	n made from roll forming process uded glazing beads of appropriates, zinc alloy (white powder coated nished wall, plastic packers, plast ash shall be mitred cut and fusion including drilling of holes for fix tween frame and adjacent finished of required size and of approver-in-Charge.Note: For uPVC framile. in depth & width of profile shall. S.S. friction hinges (350 x 19 x mullion 47 x 68 mm all having was mension. Inclusive of glazing convalent (Area of window upto 2.16.000 sqm Rs 51217.80

4	12 EXISTING SMART CLASSROOM - ELECTRICAL AND	
1	od21424/2019_2020 Supply, installation, testing and commissioning of LAN socket.	
	Net Total Quantity	11.000 no
	Say 11.000 no @ Rs 260.00 / no	Rs 2860.00
2	od24233/2019_2020	
_	Supply, installation, testing and commissioning of 32" Flat Screen VGA	Color Monitor.
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 22000.00 / no	Rs 22000.00
3	od24235/2019_2020	
	Supply, installation, testing and commissioning of indoo br>2.1mm/4mm/6mm focal length lens capable to 1.0 lux sen	
	Net Total Quantity	22.000 no
	Say 22.000 no @ Rs 5945.00 / no	Rs 130790.00
4	od24239/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv conduit.	grade PVC insulated through F
	Net Total Quantity	240.000 no
	Say 240.000 no @ Rs 69.00 / no	Rs 16560.00
5	od24251/2019_2020 Other Engineering Organisation	ns
	Supply, Installation, Testing and commissioning of XLR cables and cor	nnectors
	Supply, Installation, Testing and commissioning of XLR cables and cable and cable at the Albert Cables at the Albert Cables and cable at the Albert Cables a	6.000 no
6	Net Total Quantity	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5sq
6	Say 6.000 no @ Rs 2025.00 / no od21444/2019_2020 Supply, Installation, Testing and commissioning of Distribution box SWG CRCA sheet with lockable door arrangement having connecto wire with facity for cable termination of 4cx10 sqmm ALAR. Re	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5sq
6	Say 6.000 no @ Rs 2025.00 / no od21444/2019_2020 Supply, Installation, Testing and commissioning of Distribution box SWG CRCA sheet with lockable door arrangement having connecto wire with facity for cable termination of 4cx10 sqmm ALAR. Retermination.	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5sq quired at each floor for PA v
7	Say 6.000 no @ Rs 2025.00 / no od21444/2019_2020 Supply, Installation, Testing and commissioning of Distribution box SWG CRCA sheet with lockable door arrangement having connecto wire with facity for cable termination of 4cx10 sqmm ALAR. Retermination. Net Total Quantity	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5sq quired at each floor for PA version of the results of t
	Net Total Quantity Say 6.000 no @ Rs 2025.00 / no od21444/2019_2020 Supply, Installation, Testing and commissioning of Distribution box SWG CRCA sheet with lockable door arrangement having connecto wire with facity for cable termination of 4cx10 sqmm ALAR. Retermination. Net Total Quantity Say 1.000 no @ Rs 979.00 / no od21445/2019_2020	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5sq quired at each floor for PA version of the results of t
	Net Total Quantity Say 6.000 no @ Rs 2025.00 / no od21444/2019_2020 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. Retermination. Net Total Quantity Say 1.000 no @ Rs 979.00 / no od21445/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 Port un load.	6.000 no Rs 12150.00 for PA distribution made out of rs (10 NOS) suitable for 1.5squired at each floor for PA volume at each floor for PA volume Rs 979.00 Rs 979.00

		T
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 7375.00 / no	Rs 7375.00
9	od21456/2019_2020	
	Supply and installation of GI box for modular switch installation including	ng base plate and front plate 1/2 N
	Net Total Quantity	11.000 no
	Say 11.000 no @ Rs 234.00 / no	Rs 2574.00
10	od24257/2019_2020	
	Supply, Installation, Testing and commissioning of 6W Wall mount sp	peakers with perforated metal gri
	with line matching transformer suitable for 4 ohm impedance 200 mn	n dia LBD 0606/10
	Net Total Quantity	22.000 no
	Say 22.000 no @ Rs 1350.00 / no	Rs 29700.00
11	od24261/2019_2020	
	SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/	70V AND 4OHMS , BALANCE
	MIC, FREQUENCY RESPONSE (50 HZ-16000HZ), S/N RATIO-MIC	
	LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCT	
	INPUT SIGNALS WITH 0-30 DB ATTENUATION, CONTROLS-INDIVI	
	SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 28325.00 / no	Rs 28325.00
12	松 5a 宝和0	
12	od21465/2019_2020 ther Engineering Organisation Supply, installation, testing and commissioning of 8 port PoE switch	ons
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 6250.00 / no	Rs 6250.00
13	od24255/2019_2020	
10	Supply, installation, testing and commissioning of Bio Metric Finger	Print scan attendance system w
	LCD/LED display & keypad & TCPIP LAN, USB Connectivity along w	
	software (Web based Terminal)	min reconduction mornioning a rope
	Net Total Quantity	11.000 no
	Say 11.000 no @ Rs 7600.00 / no	Rs 83600.00
14	od21468/2019_2020	113 3434144
14	Supply, installation, testing and commissioning of Cat6 I/O for Patch P	anel Shuttered
	Net Total Quantity	24.000 no
	Say 24.000 no @ Rs 260.00 / no	Rs 6240.00
15	od24269/2019_2020	
	Supply and drawing of CAT6 4 pair cable including all necessary conn	ector.
	Net Total Quantity	680.000 metre
	Say 680.000 metre @ Rs 39.00 / metre	Rs 26520.00
		1

	od21473/2019_2020 Supply, Installation, Testing and commissioning Of distribution box for Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1L Kit10	
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 7611.00 / no	Rs 7611.00
17	od24279/2019_2020 Supply, installation, testing and commissioning of wall mounted 15Ux6 With Lock & Key,Side Openable Panels with Lock & Key,6Way 5A Fan,H/W Kit10	
	Net Total Quantity	2.000 no
	Say 2.000 no @ Rs 8625.00 / no	Rs 17250.00
18	od21477/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps networks and internet on class room etc.	8 Port Network Switch to provide
	Net Total Quantity	1.000 no
	Say 1.000 no @ Rs 4130.00 / no	Rs 4130.00
19	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 pincering Organisation	ass PVC conduit as required2x1.5
	Net Total Quantity	280.000 metre
	Say 280.000 metre @ Rs 154.48 / metre	Rs 43254.40
20	1.14.2 Wiring for circuit/ submain wiring alongwith earth wire with the follow copper conductor, single core cable in surface / recessed medium clasq. mm + 1 X 2.5 sq. mm earth wire	_
	Net Total Quantity	280.000 metre
	Net Total Quantity Say 280.000 metre @ Rs 188.96 / metre	280.000 metre Rs 52908.80
21	· · · · · · · · · · · · · · · · · · ·	Rs 52908.80
21	Say 280.000 metre @ Rs 188.96 / metre 1.24.1 Supplying and fixing following modular switch/ socket on the exist	Rs 52908.80
21	Say 280.000 metre @ Rs 188.96 / metre 1.24.1 Supplying and fixing following modular switch/ socket on the exist including connections but excluding modular plate etc. as required.	Rs 52908.80 sting modular plate & switch boxed.5/6 amps switch
21	Say 280.000 metre @ Rs 188.96 / metre 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	Rs 52908.80 sting modular plate & switch box ed.5/6 amps switch 22.000 each Rs 2548.92 sting modular plate & switch box

	Say 11.000 each @ Rs 157.24 / each	Rs 1729.64
23	1.24.4 Supplying and fixing following modular switch/ socket on the exincluding connections but excluding modular plate etc. as required.	·
	Net Total Quantity	22.000 each
	Say 22.000 each @ Rs 111.72 / each	Rs 2457.84
24	1.24.5 Supplying and fixing following modular switch/ socket on the exincluding connections but excluding modular plate etc. as require	•
	Net Total Quantity	11.000 each
	Say 11.000 each @ Rs 211.03 / each	Rs 2321.33
25	1.27.2 Supplying and fixing following size/ modules, GI box alongwith moduswitches in recess etc as required.3 Module (100mmX75mm)	ılar base & cover plate for modu
	Net Total Quantity	11.000 each
26	Say 11.000 each @ Rs 255.17 / each 1.27.4 Supplying and fixing following size/ modules, GI box alongwith modus switches in recess etc as required.6 Module (200mmX75mm)	Rs 2806.87 Ilar base & cover plate for modu
	Other Engineering Net Total Quantity	11.000 each
	Say 11.000 each @ Rs 355.86 / each	Rs 3914.46
27	od24286/2019_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
28	od21481/2019_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
29	od24322/2019_2020 Supply, installation, testing, and commissioning of LT Projector and rowith all accessories as required.	pof mount for LT projector comp
	Net Total Quantity	11.000 set
	Say 11.000 set @ Rs 24590.00 / set	Rs 270490.00
30	od24358/2019_2020 Supply and laying of Cat6 Outdoor cable including necessary connected	ors.
	Net Total Quantity	60.000 metre

	Say 60.000 metre @ Rs 45.00 / metre	Rs 2700.00
31	od21489/2019_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
32	od24326/2019_2020	
	Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all of	
	accessories. Active inspire software will be complimentary with Pro	methean board.
	Net Total Quantity	11.000 no
	Say 11.000 no @ Rs 34000.00 / no	Rs 374000.00
	13 SIGNAGE AND BOARDS	
1	od26895/2019_2020	
=	Providing and fixing of Advance Direction / Way finding / Reassurar	nce Sign board of size 1000 mm
	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 t	
	sheet with area exceeding 0.9 sqm fixed over back support frame of M	1.S.Angle 35 x 35 x 5 mm all rou
	mounted on two 50 mm dia MS Pipe with clear height of not less than	2.1 m from the ground level to t
	bottom of the board as per approved drawings. The sign post sho	uld be painted with one coat of i
	oxide paint and two coats of 1 st quality synthetic enamel paint Black	& white colour with bands of 30
	height. The sign post shall be firmly fixed in to the ground by means o	f properly designed foundation w
	M15 grade concrete size 450mm x 450mmx 600 mm, including equipment, machinery and labour with all leads and lift, loading ch	nc
	completion of the work as directed by Engineer in-Charge.	Targes necessary for satisfactor
	Net Total Quantity	3.000 each
		Rs 54358.20
	Say 3.000 each @ Rs 18119.40 / each	
	100000/0010 0000	113 34330.20
2	od26896/2019_2020	
2	Supply and fixing sticker type signage at site (on door or similar loc	cations) in proper line & level. T
2	Supply and fixing sticker type signage at site (on door or similar loc signage letters shall be made with premium quality vinyl sheet of app	cations) in proper line & level. Turoved colour, pasted on "3M"ma
2	Supply and fixing sticker type signage at site (on door or similar loc signage letters shall be made with premium quality vinyl sheet of app self-adhesive film of approved colour, including supply of all mater	cations) in proper line & level. To roved colour, pasted on "3M" matial labour etc. required for prop
2	Supply and fixing sticker type signage at site (on door or similar loc signage letters shall be made with premium quality vinyl sheet of app self-adhesive film of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in	cations) in proper line & level. To roved colour, pasted on "3M" matial labour etc. required for prop
2	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of appoself-adhesive film of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD	cations) in proper line & level. To roved colour, pasted on "3M" matial labour etc. required for properties that is size will be set in compu
2	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved call approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity	cations) in proper line & level. To roved colour, pasted on "3M" maial labour etc. required for properties that size will be set in compute 9576.000 sqcm
	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved self-adhesive film of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm	cations) in proper line & level. To roved colour, pasted on "3M" matial labour etc. required for properties fit size will be set in compu
3	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm od26897/2019_2020	cations) in proper line & level. To roved colour, pasted on "3M" matial labour etc. required for properties that size will be set in compute 9576.000 sqcm
	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved self-adhesive film of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm od26897/2019_2020 Supply and fixing bilingual signage in English. The signage letters will	cations) in proper line & level. To roved colour, pasted on "3M" marial labour etc. required for properties that size will be set in compute 9576.000 sqcm Rs 3447.36 be made with premium quality vi
	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm od26897/2019_2020 Supply and fixing bilingual signage in English. The signage letters will sheet of approved colour, pasted on 3mm thick aluminium composite	cations) in proper line & level. To roved colour, pasted on "3M" maial labour etc. required for properties that size will be set in compute 9576.000 sqcm Rs 3447.36 be made with premium quality vipanel backing. The signage will
	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm od26897/2019_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	cations) in proper line & level. To roved colour, pasted on "3M" maial labour etc. required for properties that size will be set in compute 9576.000 sqcm Rs 3447.36 be made with premium quality vipanel backing. The signage will
	Supply and fixing sticker type signage at site (on door or similar local signage letters shall be made with premium quality vinyl sheet of approved colour, including supply of all mater completion of work. Before making the signage text & font of letters in so as to give aesthetic look as per sample available with ITD Net Total Quantity Say 9576.000 sqcm @ Rs 0.36 / sqcm od26897/2019_2020 Supply and fixing bilingual signage in English. The signage letters will sheet of approved colour, pasted on 3mm thick aluminium composite	cations) in proper line & level. To roved colour, pasted on "3M" maial labour etc. required for properties that size will be set in compute 9576.000 sqcm Rs 3447.36 be made with premium quality virus panel backing. The signage will

Say 16938.320 sqcm @ Rs 0.74 / sqcm	Rs 12534.36
od26898/2019_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 façade, grit wash, gypsum board etc.) with screws & tape includir required for proper completion of work.	nage to be fixed in position (Stone
Net Total Quantity	36000.000 sqcm
Say 36000.000 sqcm @ Rs 0.43 / sqcm	Rs 15480.00
od26899/2019_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 f ITD.	& level including s/o all T&P etc
Net Total Quantity	820.000 cm
Say 820.000 cm @ Rs 36.01 / cm	Rs 29528.20
signage will be either fixed on the wall with the help of screws & do ceiling with the help of chain & screws etc. complete work.	uble tape of hanged from the fals
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm od26901/2019_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	-
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm od26901/2019_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 state of	Rs 3165.40 ink framing the same in 3mm thick
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm od26901/2019_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	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and
Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 t double tape etc. to give neat & finished look Net Total Quantity	ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm od26901/2019_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 to double tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm	ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 todouble tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 todouble tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES Lump-Sum Total	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00 nts (in %) @ 12.0%
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 todouble tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES Lump-Sum Total Provision for GST payments	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00 ints (in %) @ 12.0% 2261092.14
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 to double tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES Lump-Sum Total Provision for GST payments	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00 nts (in %) @ 12.0% 2261092.14 21103527.14
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 todouble tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES Lump-Sum Total Provision for GST payments Amount reserved for GST payments	Rs 3165.40 ink framing the same in 3mm thick he wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00 nts (in %) @ 12.0% 2261092.14 21103527.14
Net Total Quantity Say 3724.000 sqcm @ Rs 0.85 / sqcm 7 od26901/2019_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 todouble tape etc. to give neat & finished look Net Total Quantity Say 0.982 sqm @ Rs 1393.80 / sqm 14 CONTINGENCIES Lump-Sum Total Provision for GST payments Amount reserved for GST payments	Rs 3165.40 ink framing the same in 3mm thiche wall with the help of screws and 0.982 sqm Rs 1368.71 Rs 186559.00 nts (in %) @ 12.0% 2261092.14 21103527.14 72.86

(Cost Index Applied for this estimate is 37.93%)

