UP-GRADATION OF GOVT ITI DAHANUVACHAPURAM ON PAR WITH INTERNATIONAL STANDARDS-OTHER INFRASTRUCTURAL FACILITIES AND SERVICES, PHASE-1, REV-3

Detailed Estimate

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

Sl No	Description	No	L	B	D	CF	Quantity	Remark
	1 ROADS AND ANCILLARY WORKS							
1	16.1 Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.							
	Road area	1	1412.000				1412.000	
						Total Quantity	1412.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						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 Material conforming to specifications, mixing in a mechanical mix plant at OMC, Carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge.With material conforming to Grade - III (size range 26.5 mm to 0.075 mm) having CBR Value - 20							
	Road area	1	1412.000		0.100		141.201	
						Total Quantity	141.201 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	141.201 cum	
						Say 141.201 cum @ Rs 2664.12 / cum	**Rs 376176.41**	
3	16.79 Providing , laying spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub - base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer - in- Charge.							
	Road area	1	1412.000		0.150		211.800	
						Total Quantity	211.800 cum	

							Total Deducted Quantity	0.000 cum
							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 prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 (low porosity).							
	Road area	1	1412.000				1412.000	
							Total Quantity	1412.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	1412.000 sqm
							Say 1412.000 sqm @ Rs 56.05 / sqm	**Rs 79142.60**
5	od67507/2019_2020 2.5 cm premix carpet surfacing with 2.25 cum and 1.12 cum of stone chippings of 13.2 mm and 11.2 mm size respectively per 100 sqm and 52 kg and 56 kg of hot bitumen per cum of stone chippings of 13.2 mm and 11.2 mm size respectively, including a tack coat with hot straight run bitumen, including consolidation with road roller of 6 to 9 tonne capacity etc. complete (tack coat to be paid for separately): With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt (DSR ITEM NO.16.33.1)							
	Road area	1	1412.000				1412.000	
							Total Quantity	1412.000 sqm
							Total Deducted Quantity	0.000 sqm
							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 /sqm Providing and applying tack coat using bitumen emulsion conforming to IS : 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom. 1. With Rapid Setting Bitumen Emulsion 2. On bituminous surface @ 0.25 kg /sqm							
	Road area	1	1412.000				1412.000	
							Total Quantity	1412.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	1412.000 sqm
							Say 1412.000 sqm @ Rs 10.49 / sqm	**Rs 14811.88**
7	od67514/2019_2020 Providing and laying seal coat of premixed fine aggregate (passing 2.36 mm and retained on 180 micron							

	sieve) with bitumen using 128 kg of bitumen of grade VG -10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface, including rolling and finishing with road roller all complete.(DSR ITEM NO 16.40)							
	Road area	1	1412.000				1412.000	
						Total Quantity	1412.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	1412.000 sqm	
						Say 1412.000 sqm @ Rs 82.06 / sqm	**Rs 115868.72**	
8	od67518/2019_2020 Providing and laying average 100 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate mixed with sand Zone V, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.							
	foot path	1	220.000	1.000	0.100		22.000	
						Total Quantity	22.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						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 aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete							
	FOOT PATH	1	220.000	1.000	0.100		22.000	
						Total Quantity	22.000 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	22.000 cum	
						Say 22.000 cum @ Rs 7591.39 / cum	**Rs 167010.58**	
10	16.45 Providing and fixing in position pre- moulded joint filler in expansion joints.							
		1	6.000	1.000	15.000		90.000	
						Total Quantity	90.000 per cm depth per cm width per meter length	
						Total Deducted Quantity	0.000 per cm depth per cm width per meter length	
						Net Total Quantity	90.000 per cm depth per cm width per	

							meter length	
	Say 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	16.90 Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.							
		1	220.000				220.000	
	Total Quantity						220.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	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 of M-25 grade cement concrete in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) , including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge)							
	foot pah	2	220.000		0.075		33.000	
	Total Quantity						33.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						33.000 cum	
	Say 33.000 cum @ Rs 6913.95 / cum						**Rs 228160.35**	
13	od67546/2019_2020 two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces							
	FOOT PATH	2	220.000		0.200		88.000	DEPTH = GIRTH OF PAINTING
	Total Quantity						88.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						88.000 sqm	
	Say 88.000 sqm @ Rs 93.43 / sqm						**Rs 8221.84**	
14	od67551/2019_2020							

	Providing and fixing PVC pipe pieces in weep holes by hacking,jointing and make good, 110 mm pipe 4 kgf/cm2							
		110	0.110				12.100	
	Total Quantity						12.100 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						12.100 metre	
	Say 12.100 metre @ Rs 223.20 / metre						**Rs 2700.72**	
15	od68003/2019_2020 Construct foundation for lighting pole using M30 concrete of overall size 65x65x160 cm and 4 nos M20x75cm long anchor bolt set in concrete using 4mm thick anchor plate as per the drawing and specification.							
		12					12.000	
	Total Quantity						12.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						12.000 each	
	Say 12.000 each @ Rs 10684.23 / each						**Rs 128210.76**	
16	od67559/2019_2020 Construct RC drain using 1:1.5:3 mix wall and base 10cm thick of average inside dimensions 40cm wide x 60cm deep covered with 10cm (1:1.5:3) mix precast RC slab etc as per drawing and specification							
		1	249.000				249.000	
	Total Quantity						249.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						249.000 metre	
	Say 249.000 metre @ Rs 5627.16 / metre						**Rs 1401162.84**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	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 area cleared.							
		1	5400.000				5400.000	
	Total Quantity						5400.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						5400.000 sqm	
	Say 5400.000 sqm @ Rs 5.03 / sqm						**Rs 27162.00**	
2	2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up							

	to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared							
		1	2450.000				2450.000	
						Total Quantity	2450.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	2450.000 sqm	
						Say 2450.000 sqm @ Rs 9.93 / sqm	**Rs 24328.50**	
3	2.33.1 Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyound 30 cm girth up to and including 60 cm girth							
		3					3.000	
						Total Quantity	3.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	3.000 each	
						Say 3.000 each @ Rs 302.34 / each	**Rs 907.02**	
4	2.33.2 Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyound 60 cm girth up to and including 120 cm girth							
		12					12.000	
						Total Quantity	12.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	12.000 each	
						Say 12.000 each @ Rs 1341.65 / each	**Rs 16099.80**	
5	2.2.1 Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m:All kinds of soil							
		1	530.000				530.000	
						Total Quantity	530.000 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	530.000 cum	
						Say 530.000 cum @ Rs 590.20 / cum	**Rs 312806.00**	

6	2.28.1 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.All kinds of soil							
		1	5400.000				5400.000	
						Total Quantity	5400.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	5400.000 sqm	
						Say 5400.000 sqm @ Rs 19.24 / sqm	**Rs 103896.00**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	3 EXTERNAL WATER SUPPLY							
1	od67508/2019_2020 Providing and fixing PVC pipes includings of pipes with one step PVC solvent cement, trenching and refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia 10Kgf/cm2							
	distribution	1	40.000				40.000	
						Total Quantity	40.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	40.000 metre	
						Say 40.000 metre @ Rs 372.20 / metre	**Rs 14888.00**	
2	od67511/2019_2020 Providing and fixing PVC pipes includings jointing of pipes with one step PVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 63 mm dia 10Kgf/cm2							
		1	240.000				240.000	
						Total Quantity	240.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	240.000 metre	
						Say 240.000 metre @ Rs 302.67 / metre	**Rs 72640.80**	
3	od67536/2019_2020 Supply, fixing, testing , commissioning 65mm dia Butterfly valve (Manual) with CI body SS disk, Nitrile rubber seal and O-ring P16 pressure rating for water circulation as specified.							
	distribution	4					4.000	
						Total Quantity	4.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	4.000 each	
						Say 4.000 each @ Rs 3928.51 / each	**Rs 15714.04**	
4	18.32.1 Constructing masonry chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4							

	coarse sand) for stop cock, with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:With common burnt clay F.P.S (non modular) bricks of class designation 7.5							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 1648.75 / each	**Rs 1648.75**	
5	od67547/2019_2020 Supply installation testing and commissioning of water treatment plant 5000 LPH capacity with Sand filter,Carbon filter, Iron removal filter,Float switches 4 nos,Filter feed pump (5000 lph,30-35 m head),chemical dosing pump((0-10) lph with all accessories complete as per the direction of engineer in charge							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 295296.62 / each	**Rs 295296.62**	
6	od67500/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.							
	75MM DIA	1	468.000	0.0462			21.622	
						Total Quantity	21.622 cum	
						Total Deducted Quantity	0.000 cum	
						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 nominal boreVertical							
		2					2.000	
						Total Quantity	2.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	2.000 each	
						Say 2.000 each @ Rs 2455.36 / each	**Rs 4910.72**	

8	od67549/2019_2020 Supply ,Installation testing and commissioning of Kirloskar make or approved equivalent 1HP, Single phase ,average 10m head 2500 LPH capacity submersible pump including all accessories.							
		2					2.000	
						Total Quantity	2.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	2.000 each	
						Say 2.000 each @ Rs 24819.80 / each	**Rs 49639.60**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
4 EXTERNAL SEWERAGE SYSTEM								
1	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2							
		1	280.000				280.000	
						Total Quantity	280.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	280.000 metre	
						Say 280.000 metre @ Rs 814.55 / metre	**Rs 228074.00**	
2	19.7.1.1 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg):With common burnt clay F.P.S. (non modular) bricks of class designation 7.5							
		18					18.000	
						Total Quantity	18.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	18.000 each	
						Say 18.000 each @ Rs 11909.01 / each	**Rs 214362.18**	
3	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F.P.S. (non modular) bricks of class designation 7.5							
		18	0.150				2.700	

						Total Quantity	2.700 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	2.700 metre	
						Say 2.700 metre @ Rs 7887.66 / metre	**Rs 21296.68**	
4	19.7.2.1 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg):With common burnt clay F.P.S (non modular) bricks of class designation 7.5								
		10					10.000	
						Total Quantity	10.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	10.000 each	
						Say 10.000 each @ Rs 25410.02 / each	**Rs 254100.20**	
5	19.7.3.1 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:Inside size 120x 90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)With common burnt clay F.P.S. (non modular) bricks of class designation 7.5								
		4					4.000	
						Total Quantity	4.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	4.000 each	
						Say 4.000 each @ Rs 31700.80 / each	**Rs 126803.20**	
6	od67500/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.							
		1	310.000	0.076			23.560	
						Total Quantity	23.560 cum	

						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	23.560 cum	
						Say 23.560 cum @ Rs 5805.55 / cum	**Rs 136778.76**	
7	od67523/2019_2020 Supplying and installing ready made reinforced concrete Septic tank for 100 users cylindrical shape 5000L(1.60m dia x 2.50m long) including the cost of carriage, trenching, placing at the level below ground level as specified as per the direction of engineer in charge (Provision for CC/RCC/Sand/06mm aggregate for the preparation of bed shall be paid separately)							
		3					3.000	
						Total Quantity	3.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	3.000 each	
						Say 3.000 each @ Rs 52798.55 / each	**Rs 158395.65**	
8	19.33 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.							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 2919.15 / each	**Rs 2919.15**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
5 RAIN WATER DRAINAGE								
1	50.18.9.10.1 Providing and fixing PVC pipes includings jointing of pipes with one step pvc solvent cement, trenching , refilling & testing of joints complete as per direction of Engineer in Charge. 150 mm dia 6 Kgf/cm2							
		1	240.000				240.000	
						Total Quantity	240.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	240.000 metre	
						Say 240.000 metre @ Rs 814.55 / metre	**Rs 195492.00**	
2	19.7.1.1 Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size,) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone							

	aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design:Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weigh of cover 23 kg and weight of frame 15 kg):With common burnt clay F.P.S. (non modular) bricks of class designation 7.5							
		20					20.000	
	Total Quantity						20.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						20.000 each	
	Say 20.000 each @ Rs 11909.01 / each						**Rs 238180.20**	
3	19.8.1.1 Extra for depth for manholesSize 90x80 cmWith common burnt clay F.P.S. (non modular) bricks of class designation 7.5							
		20	0.150				3.000	
	Total Quantity						3.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						3.000 metre	
	Say 3.000 metre @ Rs 7887.66 / metre						**Rs 23662.98**	
4	od67500/2019_2020 Extra over for Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all - round underground PVC pipes.							
	160mm dia	1	196.000	0.076			14.896	
	Total Quantity						14.896 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						14.896 cum	
	Say 14.896 cum @ Rs 5805.55 / cum						**Rs 86479.47**	
5	od67504/2019_2020 Supply all material and construct RCC rain water filtration tank cum collection tank of overall size 5.1x2.65x1.60m using 1:1.5:3 concrete mix etc. all complete as per the drawing and specification.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 225959.88 / each						**Rs 225959.88**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
6 EXTERNAL LIGHTING								

1	od67529/2019_2020 Supply of 4 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	320.000				320.000	
						Total Quantity	320.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	320.000 metre	
						Say 320.000 metre @ Rs 95.00 / metre	**Rs 30400.00**	
2	od68974/2019_2020 SITC Of feeder pillar complete with the following accessories. Incomer: 40A, DP Isolator. 40A, DP, RCCB, 100mA. Timer control with contactor. Auto/ Manual switch. Outgoing: 10A, SP MCB - 4 Nos.							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 19901.76 / each	**Rs 19901.76**	
3	od69453/2019_2020 SITC of 6 metre Hot dipped galvanised Octogonal pole in single section with 70mm top diameter, 130mm bottom diameter, 3mm sheet thickness, base plate dimensions of 200 x 200x 12 mm with 1.0 M long single arm bracket with 45W LED street light complete with all other accessories as required.							
		12					12.000	
						Total Quantity	12.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	12.000 each	
						Say 12.000 each @ Rs 17745.03 / each	**Rs 212940.36**	
4	1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required2x1.5 sq.mm + 1x1.5 sq.mm earth wire							
		100					100.000	
						Total Quantity	100.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	100.000 metre	
						Say 100.000 metre @ Rs 154.48 / metre	**Rs 15448.00**	
5	od67531/2019_2020 Supplying and laying 8 SWG Cu wire at 0.50 metre below ground level for conductor earth electrode,							

	including connection/ termination with GI thimble etc. as required.							
		1	160.000				160.000	
	Total Quantity						160.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						160.000 metre	
	Say 160.000 metre @ Rs 105.21 / metre						**Rs 16833.60**	
6	od67533/2019_2020 Supply of 16 sqmm 3 core PVC/ XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	80.000				80.000	
	Total Quantity						80.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						80.000 metre	
	Say 80.000 metre @ Rs 151.00 / metre						**Rs 12080.00**	
7	7.1.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Upto 35 sq. mm							
		1	20.000				20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 284.14 / metre						**Rs 5682.80**	
8	7.5.1 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size in the existing RCC/ HUME/ METAL pipe as required.Upto 35 sq. mm							
		1	24.000				24.000	
	Total Quantity						24.000 metre	
	Total Deducted Quantity						0.000 metre	
	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 / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		1	60.000				60.000	
	Total Quantity						60.000 metre	

						Total Deducted Quantity	0.000 metre	
						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 withRCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.150 mm dia							
		1	16.000				16.000	
						Total Quantity	16.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	16.000 metre	
						Say 16.000 metre @ Rs 558.62 / metre	**Rs 8937.92**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
7 DG, CHANGE OVER PANEL AND MODIFICATION OF EXISTING PANELS								
1	od67512/2019_2020 Supply of 400 sqmm 3.5 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		1	55.000				55.000	
						Total Quantity	55.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	55.000 metre	
						Say 55.000 metre @ Rs 2195.00 / metre	**Rs 120725.00**	
2	od67515/2019_2020 Supply of 3.5C X 300 Sq.mm AYFY Cable							
		1	60.000				60.000	
						Total Quantity	60.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	60.000 metre	
						Say 60.000 metre @ Rs 1731.00 / metre	**Rs 103860.00**	
3	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 grade as required.3 1/2X 300 sq. mm (70mm)							
		4					4.000	
						Total Quantity	4.000 set	

						Total Deducted Quantity	0.000 set	
						Net Total Quantity	4.000 set	
						Say 4.000 set @ Rs 1525.51 / set	**Rs 6102.04**	
4	9.1.31 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 grade as required.3 1/2X 400 sq. mm (82mm)							
		4					4.000	
						Total Quantity	4.000 set	
						Total Deducted Quantity	0.000 set	
						Net Total Quantity	4.000 set	
						Say 4.000 set @ Rs 1915.85 / set	**Rs 7663.40**	
5	7.7.4 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)							
		1	35.000				35.000	
						Total Quantity	35.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	35.000 metre	
						Say 35.000 metre @ Rs 165.52 / metre	**Rs 5793.20**	
6	od69598/2019_2020 APFC Panel Modification(Dhanuvachapuram) Supply, installation, testing and commissioning of APFC(existing) by the modification of old APFC panel to accommodate a total of 65 kVAr capacitor in steps, contactors, MCCB, indicators, inductors etc.							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 112983.53 / each	**Rs 112983.53**	
7	od69599/2019_2020 Modification of Existing MSB to add 320A, 36kA, 3P MCCB & 250A, 36kA, 3P MCCB for the new panels complete with TP & N Busbar, extention of panels etc.							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	

	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 80080.16 / each	**Rs 80080.16**
8	od69600/2019_2020 SITC of Change Over Panel (Dhanuvachapuram) Supply, installation , testing and commissioning of totally enclosed compartmentalized dust and vermin proof cubical segregated and modular in construction M.V. panel board free standing fabricated with14swg and 16swg of CRCA M.S. sheet, powder coated , bus-bar chamber ,outgoing switchgear etc. (all feeder unit Would be compart mentalized), color coded PVC sleeved vertical / horizontal Aluminium busbar of required size of length, (bus-bar distances shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged door, interconnecting single core multi strand lugged copper wire having current density of 2A / sqmm of suitable capacity & size with lugs from busbar to switchgears / MCCB / MCB or where ever required, control wiring with 1 sqmm FRLS cable, ON/OFF, RYB phase indicators, two earthing terminal busbar of size 25 x 5 mm copper with nut & bolts at outside of the panel, rating and name plates for all incoming & outgoings etc comprising with the followings as per the KEI standard. Switch gears – ABB/ Equivalent, Contactors – ABB, L&T/Equivalent. Incomer: - 630A, 50kA, FP MCCB -1No, 630A, FP Isolator - 1 No. AMF relay, CT, RYB indicator, MFDM, etc.Outgoing: - 630A , 50 kA FP MCCB - 1No	
	1	1.000
	Total Quantity	1.000 each
	Total Deducted Quantity	0.000 each
	Net Total Quantity	1.000 each
	Say 1.000 each @ Rs 355752.08 / each	**Rs 355752.08**
9	od69601/2019_2020 SITC of 320 KVA DG set with standard control panel complete with all other accessories as required.	
	1	1.000
	Total Quantity	1.000 each set
	Total Deducted Quantity	0.000 each set
	Net Total Quantity	1.000 each set
	Say 1.000 each set @ Rs 2576035.00 / each set	**Rs 2576035.00**
10	7.8.4 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on cable tray as required.Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	
	1	40.000	40.000
	Total Quantity	40.000 metre
	Total Deducted Quantity	0.000 metre
	Net Total Quantity	40.000 metre
	Say 40.000 metre @ Rs 132.41 / metre	**Rs 5296.40**
11	7.1.4	

	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Above 185 sq. mm and upto 400 sq. mm							
		1	40.000				40.000	
						Total Quantity	40.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	40.000 metre	
						Say 40.000 metre @ Rs 342.07 / metre	**Rs 13682.80**	
12	5.6 Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.							
		3					3.000	
						Total Quantity	3.000 set	
						Total Deducted Quantity	0.000 set	
						Net Total Quantity	3.000 set	
						Say 3.000 set @ Rs 11433.02 / set	**Rs 34299.06**	
13	5.9 Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earthelectrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.(Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)							
		1	100.000				100.000	
						Total Quantity	100.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	100.000 metre	
						Say 100.000 metre @ Rs 117.24 / metre	**Rs 11724.00**	
14	5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.							
		1	20.000				20.000	
						Total Quantity	20.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	20.000 metre	
						Say 20.000 metre @ Rs 177.93 / metre	**Rs 3558.60**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
8 RELOCATION OF WORKSHOP ELECTRICAL WORKS								

1	od67519/2019_2020 Supply of 25 sqmm 4 core PVC/XLPE insulated armoured cable with aluminium conductors for working voltages up to and including 1100 volts conforming IS 1584/part I/1988 for PVC IS 7098 part I for XLPE							
		400					400.000	
	Total Quantity						400.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						400.000 metre	
	Say 400.000 metre @ Rs 238.00 / metre						**Rs 95200.00**	
2	od67521/2019_2020 Supply of 3.5C X 150 Sq.mm AYFY Cable							
		150					150.000	
	Total Quantity						150.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						150.000 metre	
	Say 150.000 metre @ Rs 894.00 / metre						**Rs 134100.00**	
3	od67524/2019_2020 Supply of 1R X 3.5C X 95 Sq.mm AYFY cable							
		160					160.000	
	Total Quantity						160.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						160.000 metre	
	Say 160.000 metre @ Rs 628.00 / metre						**Rs 100480.00**	
4	9.1.24 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 grade as required.3 1/2X 95 sq. mm (45mm)							
		4					4.000	
	Total Quantity						4.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						4.000 set	
	Say 4.000 set @ Rs 664.82 / set						**Rs 2659.28**	
5	9.1.26 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 grade as required.3 1/2 X 150 sq. mm (50mm)							
		2					2.000	

						Total Quantity	2.000 set	
						Total Deducted Quantity	0.000 set	
						Net Total Quantity	2.000 set	
						Say 2.000 set @ Rs 816.55 / set	**Rs 1633.10**	
6	9.1.34 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 grade as required.4 X 25 sq. mm (28mm)							
		40					40.000	
						Total Quantity	40.000 set	
						Total Deducted Quantity	0.000 set	
						Net Total Quantity	40.000 set	
						Say 40.000 set @ Rs 355.86 / set	**Rs 14234.40**	
7	od69217/2019_2020 Relocation of SSB from existing workshop Building No. 4 to Building No.5(TDM workshop)							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 1648.48 / each	**Rs 1648.48**	
8	od69218/2019_2020 Relocation of SSB from Building No. 4 to Building No.8 (SMW, Plumbing and Wiremen workshop)							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 3296.96 / each	**Rs 3296.96**	
9	od69219/2019_2020 Relocation of MDB from Building No. 4 to Building No.5 (Dhanuvachapuram)							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 1648.48 / each	**Rs 1648.48**	
10	od69220/2019_2020							

	Relocation of SSB from Building No. 4 to Building No.2 CNC workshop)							
		1					1.000	
						Total Quantity	1.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 3296.96 / each	**Rs 3296.96**	
11	od69221/2019_2020 Temporary Wiring of 6/16Aplugsocket including switch box wiring, clamping etc through PVC pipe as required.							
		80					80.000	
						Total Quantity	80.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	80.000 each	
						Say 80.000 each @ Rs 2384.81 / each	**Rs 190784.80**	
12	7.1.2 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Above 35 sq. mm and upto 95 sq. mm							
		60					60.000	
		100					100.000	
						Total Quantity	160.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	160.000 metre	
						Say 160.000 metre @ Rs 295.17 / metre	**Rs 47227.20**	
13	7.1.3 Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade offollowing size direct in ground including excavation, sand cushioning, protective covering andrefilling the trench etc as required.Above 95 sq. mm and upto 185 sq. mm							
		60					60.000	
		100					100.000	
						Total Quantity	160.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	160.000 metre	
						Say 160.000 metre @ Rs 307.58 / metre	**Rs 49212.80**	
14	7.7.1 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of							

	following size on wall surface as required.Upto 35 sq. mm (clamped with 1mm thick saddle)							
		400					400.000	
	Total Quantity						400.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						400.000 metre	
	Say 400.000 metre @ Rs 34.48 / metre						**Rs 13792.00**	
15	7.7.2 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)							
		90					90.000	
		100					100.000	
	Total Quantity						190.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						190.000 metre	
	Say 190.000 metre @ Rs 99.31 / metre						**Rs 18868.90**	
16	7.7.3 Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KVgrade of following size on wall surface as required.Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)							
		90					90.000	
		100					100.000	
	Total Quantity						190.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						190.000 metre	
	Say 190.000 metre @ Rs 115.86 / metre						**Rs 22013.40**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
9 EXISTING CLASS ROOMS CONVERTED TO SMART CLASS ROOMS								
1	od67482/2019_2020 Supply, deliver and place of Trademark registered branded (JALARAM make- JMPT 4A) or approved equivalent Table for with 25 mm top, square tubular frame. Overall size: W-151 x D-90 x H-75(cm) Material Description: Main top 25mm thick wood based high quality Pre-laminated Particle Board(PLB) of TESA with 2mm PVC edge band by hot melt glue process for beading all over edge. Top frame of 1.21mm thick. (18swg) CRAC sheet IS 513. Table frame structure made up of prime quality MS ERW square tube 25x25mm of 18swg. Good quality PVC Shoes. All steel parts should be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.								

	CLASS ROOMS	11					11.000	
						Total Quantity	11.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	11.000 each	
						Say 11.000 each @ Rs 8239.56 / each	**Rs 90635.16**	
2	od67486/2019_2020 Supply,deliver and place Trademark registered branded (JALARAM Make JEC 501(C))/Equivelent Executive Visitor Net Chair, Overall Size (approx): H-98 x W-58 x D-63.5 (cm) Seat Height: 48 (cm) Frame structure: Backrest made of Mesh and Seat from hot mould plywood of minimum 12 mm thickness of ergonomic design to avoid back pain. Chrome-plated Arm & Frame 'Tapestry: Minimum average weight required 400 to 490 gms per sq. mtr. Tapestry will be tested quality such as stain test, ultra violet test,glue test and color fastening with average weight of 450 grams per square meter Cushioning: PU foam having density of 50 kgs/m3 for seat. Average thickness of foam not less than 50 mm + 10 mm Polly foam. Arm rest material: Polyurethane on Chrome Shoes: Nylon Rubber							
	CLASS ROOM	11					11.000	
						Total Quantity	11.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	11.000 each	
						Say 11.000 each @ Rs 13013.72 / each	**Rs 143150.92**	
3	od67488/2019_2020 Supply deliver and place Trademark registered branded (JALARAM Make-JSD 601(D))/equilvalent Two Seater Desk Cum Bench fitted on tubular frame with perforated seat and back for Senior Students. Overall size : H-760 × W-1040 × D-1000 (mm) Seat Height: 460 mm Desk Top (Curvica) of 25 mm thick wood based high quality branded (TESA) post formed Pre-laminated Particle Board (PLB)with 0.6mm laminated with 2mm PVC beading by hot melt glue process all over 4 edges. Bench Main frame tube & Support tube of 32mm, 16swg ERW round tube. Seat & Back frame tube of 19mm, 16swg ERW round tube. Seat & Back support of 25x25x1.6mm (16swg) thick. square ERW tube. Seat & Back of 18swg. Perforated CRCA sheet IS 513. Storage Bucket of 18swg. Perforated CRCA sheet IS 513. Good quality PVC shoes & cap. All steel parts will be epoxy polyester powder coated to the thickness not less than 50 microns finish after 10 tank anti-rust treatment and B grade phosphating.							
	CLASS ROOM	165					165.000	
						Total Quantity	165.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	165.000 each	
						Say 165.000 each @ Rs 8935.68 / each	**Rs 1474387.20**	
4	od67493/2019_2020 Sypply and installation of Podium : 600x600x 1200mm ht.							

	CLASS ROOM	11					11.000	
						Total Quantity	11.000 each	
						Total Deducted Quantity	0.000 each	
						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 paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.							
	CLASS ROOM INSIDE	1201.2					1201.200	
						Total Quantity	1201.200 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	1201.200 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 manufacture to give an even shade:One or more coats on old work							
	CLASS ROOM INSIDE	1201.2					1201.200	
						Total Quantity	1201.200 sqm	
						Total Deducted Quantity	0.000 sqm	
						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 manufacture of required colour to an give even shade:One or more coats on old work							
	CLASS ROOM DOORS AND WINDOWS	1	194.700				194.700	
						Total Quantity	194.700 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	194.700 sqm	
						Say 194.700 sqm @ Rs 70.76 / sqm	**Rs 13776.97**	
8	11.47.2 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer,in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile							

	adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 600x600 mm							
	C L A S S R O O M F L O O R	1	396.000				396.000	
						Total Quantity	396.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	396.000 sqm	
						Say 396.000 sqm @ Rs 1711.16 / sqm	**Rs 677619.36**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	10 DEMOLITION WORKS							
1	15.2.2 Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in-Charge.Nominal concrete 1:4:8 leaner mix (including equivalent design mix)							
	FOR MAIN BUILDING NO 4	1	115.800				115.800	
	FOR DRAIN	1	8.000				8.000	
						Total Quantity	123.800 cum	
						Total Deducted Quantity	0.000 cum	
						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 stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.							
	BUILDING NO.4	1	651.000				651.000	
	DRAIN	1	6.150				6.150	
						Total Quantity	657.150 cum	
						Total Deducted Quantity	0.000 cum	
						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 stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.In cement mortar							
	BUILDING NO.4	1	843.770				843.770	
						Total Quantity	843.770 cum	

						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	843.770 cum	
						Say 843.770 cum @ Rs 1162.34 / cum	**Rs 980747.62**	
4	15.9.2 Demolishing stone rubble masonry manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer -in-Charges:In cement mortar							
	BUILDING NO.4	1	223.000				223.000	
						Total Quantity	223.000 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	223.000 cum	
						Say 223.000 cum @ Rs 1387.16 / cum	**Rs 309336.68**	
5	15.12.1 Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:Of area 3 sq. metres and below							
	BUILDING NO.4	88					88.000	
						Total Quantity	88.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	88.000 each	
						Say 88.000 each @ Rs 217.72 / each	**Rs 19159.36**	
6	15.12.2 Of area beyond 3 sq. metres							
	BUILDING NO.4	50					50.000	
						Total Quantity	50.000 each	
						Total Deducted Quantity	0.000 each	
						Net Total Quantity	50.000 each	
						Say 50.000 each @ Rs 298.48 / each	**Rs 14924.00**	
7	15.18 Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates,boltd, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.							
	BUILDING NO.4	1	11966.000				11966.000	
						Total Quantity	11966.000 kg	
						Total Deducted Quantity	0.000 kg	
						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., and stacking the material within 50 metres lead of :Asbestos Sheet							
	BUILDING NO.4	1	2392.000				2392.000	
						Total Quantity	2392.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						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 or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved							
	BUILDING NO.4 AND OTHERS	1	1736.000				1736.000	
						Total Quantity	1736.000 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1736.000 cum	
						Say 1736.000 cum @ Rs 166.27 / cum	**Rs 288644.72**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
	11 TEMPORARY BUILDING FOR STORE [100 M2]							
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
		1	13.620				13.620	
						Total Quantity	13.620 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	13.620 cum	
						Say 13.620 cum @ Rs 173.72 / cum	**Rs 2366.07**	
2	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
		1	10.100				10.100	
						Total Quantity	10.100 cum	
						Total Deducted Quantity	0.000 cum	

						Net Total Quantity	10.100 cum	
						Say 10.100 cum @ Rs 6176.71 / cum	**Rs 62384.77**	
3	5.1.3 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)							
		1	1.950				1.950	
						Total Quantity	1.950 cum	
						Total Deducted Quantity	0.000 cum	
						Net Total Quantity	1.950 cum	
						Say 1.950 cum @ Rs 7962.22 / cum	**Rs 15526.33**	
4	50.6.1.1 Solid block masonry using pre cast solid blocks (factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 part 1 of 1979 for foundation and plinth with thickness 20 cm and above in: CM 1:6 (1 cement : 6 coarse sand) etc complete							
		1	40.000	0.200	3.000		24.000	
						Total Quantity	24.000 cum	
						Total Deducted Quantity	0.000 cum	
						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 40x20x15cm or nearest available size confirming to IS 2185 part 1 of 1979 for super structure up to floor two level with thickness 15cm in: CM 1:6 (1 cement : 6 coarse sand) etc complete							
		1	10.000	3.000	0.150		4.500	
						Total Quantity	4.500 cum	
						Total Deducted Quantity	0.000 cum	
						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 cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:1.5:3 (1 cement : 1.5 coarse sand (Zone - III) : 3 graded stone aggregate 20 mm nominal size)							
		1	0.500				0.500	
						Total Quantity	0.500 cum	
						Total Deducted Quantity	0.000 cum	

						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, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
		1	62.500				62.500	
						Total Quantity	62.500 kilogram	
						Total Deducted Quantity	0.000 kilogram	
						Net Total Quantity	62.500 kilogram	
						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 tubes etc.) trusses etc., including cutting, hoisting, fixing position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.Hot finished welded type tubes							
		1	1259.000				1259.000	
						Total Quantity	1259.000 kg	
						Total Deducted Quantity	0.000 kg	
						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)							
		1	118.000				118.000	
						Total Quantity	118.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						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 brand and manufacture on wall surface:Water thinnable cement primer							
		1	118.000				118.000	
						Total Quantity	118.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						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, trusses and framed work, including							

	cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.							
		1	550.000				550.000	
	Total Quantity						550.000 kg	
	Total Deducted Quantity						0.000 kg	
	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 surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal / vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.0.63 mm thick with zinc coating not less than 275 gm/m2							
		1	124.000				124.000	
	Total Quantity						124.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						124.000 sqm	
	Say 124.000 sqm @ Rs 966.27 / sqm						**Rs 119817.48**	
13	9.147.5 Providing and fixing factory made uPVC white colour casement/casement cumfixed glazed windows comprising of uPVC multi-chambered frame, sash andmullion (where ever required) extruded profiles duly reinforced with 1.60 +/- 0.2mm thick galvanized mild steel section made from roll forming process of requiredlength (shape & size according to uPVC profile), uPVC extruded glazing beads ofappropriate dimension, EPDM gasket, stainless steel (SS 304 grade) frictionhinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8mm size for fixing frame to finished wall, plastic packers, plastic caps andnecessary stainless steel screws etc. Profile of frame & sash shall be mitred cutand fusion welded at all corners, mullion (if required) shall be also fusion weldedincluding drilling of holes for fixing hardware's and drainage of water etc. Afterfixing frame the gap between frame and adjacent finished wall shall be filled withweather proof silicon sealant over backer rod of required size and of approvedquality, all complete as per approved drawing & direction of Engineer-in-Charge.(Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerancein dimension i.e. in depth & width of profile shall be acceptable.Casement window double panels with S.S. friction hinges (350 x 19 x 1.9 mm)made of (big series)frame 67 x 60 mm & sash / mullion 67 x 80 mm both havingwall thickness of 2.3 ± 0.2 mm and single glazing bead/ double glazing bead ofappropriate dimension. (Area of window above 1.50 sqm).							
		2	2.000	1.500			6.000	
	Total Quantity						6.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						6.000 sqm	

	Say 6.000 sqm @ Rs 11549.15 / sqm						**Rs 69294.90**	
14	od67527/2019_2020 Supply and fixing steel doors with jamp of as per drawing and agreed schedule of rates inclusive of all applicable taxes to the satisfaction of site Engineer in charge.The above rate included all fixing and fitting lock,hinges,hardware items etc.(Ileaf, jsw, tata or approved equivalent.)							
		1	1.200	2.400			2.880	
	Total Quantity						2.880 sqm of door area	
	Total Deducted Quantity						0.000 sqm of door area	
	Net Total Quantity						2.880 sqm of door area	
	Say 2.880 sqm of door area @ Rs 14791.70 / sqm of door area						**Rs 42600.10**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
12 EXISTING SMART CLASSROOM - ELECTRICAL AND ELV WORKS								
1	od67483/2019_2020 Supply, installation, testing and commissioning of LAN socket.							
		11					11.000	
	Total Quantity						11.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						11.000 no	
	Say 11.000 no @ Rs 260.00 / no						**Rs 2860.00**	
2	od67498/2019_2020 Supply, installation, testing and commissioning of indoor IR IP dome camera 2 MP 2.1mm/4mm/6mm focal length lens capable to 1.0 lux sensitivity, with IR n 480 TV lines.							
		22					22.000	
	Total Quantity						22.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						22.000 no	
	Say 22.000 no @ Rs 5945.00 / no						**Rs 130790.00**	
3	od69605/2019_2020 Supply, installation, Testing and commissioning of 19" Flat Screen VGA colour monitor complete with all other accessories as required.							
		1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	

						Net Total Quantity	1.000 each	
						Say 1.000 each @ Rs 9287.00 / each	**Rs 9287.00**	
4	od67505/2019_2020 Supply & laying of twin twisted 2x1.5 sqmm Cu flexible wire 1.1 kv grade PVC insulated through PVC conduit.							
		1	240.000				240.000	
						Total Quantity	240.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	240.000 no	
						Say 240.000 no @ Rs 69.00 / no	**Rs 16560.00**	
5	od67513/2019_2020 Supply, Installation, Testing and commissioning of XLR cables and connectors							
		6					6.000	
						Total Quantity	6.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	6.000 no	
						Say 6.000 no @ Rs 2025.00 / no	**Rs 12150.00**	
6	od67517/2019_2020 Supply, Installation, Testing and commissioning of Distribution box for PA distribution made out of 16 SWG CRCA sheet with lockable door arrangement having connectors (10 NOS) suitable for 1.5sqmm wire with facity for cable termination of 4cx10 sqmm ALAR. Required at each floor for PA wire termination.							
		1					1.000	
						Total Quantity	1.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	1.000 no	
						Say 1.000 no @ Rs 979.00 / no	**Rs 979.00**	
7	od67520/2019_2020 Supply, Installation, testing and commissioning of Cat6 16 Port un loaded Patch Panel.							
		1					1.000	
						Total Quantity	1.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	1.000 no	
						Say 1.000 no @ Rs 874.00 / no	**Rs 874.00**	
8	od67522/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 16 Port Network Switch to provide							

	networks and internet on class room etc.							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 7375.00 / no						**Rs 7375.00**	
9	od67526/2019_2020 Supply and installation of GI box for modular switch installation including base plate and front plate 1/2 M							
		11					11.000	
	Total Quantity						11.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						11.000 no	
	Say 11.000 no @ Rs 234.00 / no						**Rs 2574.00**	
10	od67530/2019_2020 Supply, Installation, Testing and commissioning of 6W Wall mount speakers with perforated metal grille with line matching transformer suitable for 4 ohm impedance 200 mm dia LBD 0606/10							
		22					22.000	
	Total Quantity						22.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						22.000 no	
	Say 22.000 no @ Rs 1350.00 / no						**Rs 29700.00**	
11	od67532/2019_2020 SITC Of 350W RMS MIXER AMPLIFIER, 3 MIC, 2 AUX, 100V/70V AND 4OHMS , BALANCED MIC,FREQUENCY RESPONSE (50 HZ-16000HZ),S/N RATIO-MIC1,2,3,4:66DB;AUX 1:80 DB,THD-LESS THAN 1% AT 1 KHZ,1/3 RATED POWER, MUTING FUNCTION-MIC 1 OVERRIDES OTHER INPUT SIGNALS WITH 0-30 DB ATTENUATION,CONTROLS-INDIVIDUAL GAIN CONTROLS, POWER SWITCH;BASS: 10DB AT 100HZ,TREBLE: 10DB AT10000HZ.							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 28325.00 / no						**Rs 28325.00**	
12	od67535/2019_2020 Supply, installation, testing and commissioning of 8 port PoE switch							
		1					1.000	
	Total Quantity						1.000 no	

	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 6250.00 / no						**Rs 6250.00**	
13	od67538/2019_2020 Supply, installation, testing and commissioning of Bio Metric Finger Print scan attendance system with LCD/LED display & keypad & TCPIP LAN, USB Connectivity along with Attendance monitoring & report software (Web based Terminal)							
		11					11.000	
	Total Quantity						11.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						11.000 no	
	Say 11.000 no @ Rs 7600.00 / no						**Rs 83600.00**	
14	od67539/2019_2020 Supply, installation, testing and commissioning of Cat6 I/O for Patch Panel Shuttered.							
		24					24.000	
	Total Quantity						24.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						24.000 no	
	Say 24.000 no @ Rs 260.00 / no						**Rs 6240.00**	
15	od67541/2019_2020 Supply and drawing of CAT6 4 pair cable including all necessary connector.							
		1	680.000				680.000	
	Total Quantity						680.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						680.000 metre	
	Say 680.000 metre @ Rs 39.00 / metre						**Rs 26520.00**	
16	od67542/2019_2020 Supply, Installation, Testing and commissioning Of distribution box for CCTV 6Ux600Wx600D With Front Glass Door,Side Openable Panels with Lock & Key,4Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 7611.00 / no						**Rs 7611.00**	

17	od67543/2019_2020 Supply, installation, testing and commissioning of wall mounted 15Ux600Wx600D With Front Glass Door With Lock & Key,Side Openable Panels with Lock & Key,6Way 5A PDU,1U Cable Manager,Cooling Fan,H/W Kit10							
		2					2.000	
						Total Quantity	2.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	2.000 no	
						Say 2.000 no @ Rs 8625.00 / no	**Rs 17250.00**	
18	od67544/2019_2020 Supply Installation testing and Commissioning of 10/100/1000 Mbps 8 Port Network Switch to provide networks and internet on class room etc.							
		1					1.000	
						Total Quantity	1.000 no	
						Total Deducted Quantity	0.000 no	
						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 following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required2x1.5 sq.mm + 1x1.5 sq.mm earth wire							
		1	280.000				280.000	
						Total Quantity	280.000 metre	
						Total Deducted Quantity	0.000 metre	
						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 following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required2X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire							
		1	280.000				280.000	
						Total Quantity	280.000 metre	
						Total Deducted Quantity	0.000 metre	
						Net Total Quantity	280.000 metre	
						Say 280.000 metre @ Rs 188.96 / metre	**Rs 52908.80**	
21	1.24.1							

	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.5/6 amps switch							
		22					22.000	
	Total Quantity						22.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						22.000 each	
	Say 22.000 each @ Rs 115.86 / each						**Rs 2548.92**	
22	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 amp switch							
		11					11.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 157.24 / each						**Rs 1729.64**	
23	1.24.4 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet							
		22					22.000	
	Total Quantity						22.000 each	
	Total Deducted Quantity						0.000 each	
	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 existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet							
		11					11.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	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 modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)							
		11					11.000	
	Total Quantity						11.000 each	

	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 255.17 / each						**Rs 2806.87**	
26	1.27.4 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.6 Module (200mmX75mm)							
		11					11.000	
	Total Quantity						11.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						11.000 each	
	Say 11.000 each @ Rs 355.86 / each						**Rs 3914.46**	
27	od67552/2019_2020 Supply, installation, testing and commissioning of 16 Port 10/100/1000 Mbps PoE Switch.							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 14220.00 / no						**Rs 14220.00**	
28	od67553/2019_2020 Supply, Installation, testing and commissioning of Cat6 8 Port un loaded Patch Panel.							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 474.00 / no						**Rs 474.00**	
29	od67554/2019_2020 Supply, installation, testing, and commissioning of LT Projector and roof mount for LT projector complete with all accessories as required.							
		11					11.000	
	Total Quantity						11.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						11.000 set	
	Say 11.000 set @ Rs 24590.00 / set						**Rs 270490.00**	
30	od67555/2019_2020 Supply and laying of Cat6 Outdoor cable							

		60					60.000	
	Total Quantity						60.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						60.000 metre	
	Say 60.000 metre @ Rs 45.00 / metre						**Rs 2700.00**	
31	od67556/2019_2020 SITC Of NVR 8 Channel for CCTV							
		1					1.000	
	Total Quantity						1.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						1.000 no	
	Say 1.000 no @ Rs 8500.00 / no						**Rs 8500.00**	
32	od67557/2019_2020 Supply, installation, testing and commissioning of Promethean Board AB2T78 complete with all other accessories. Active inspire software will be complimentary with Promethean board.							
		11					11.000	
	Total Quantity						11.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						11.000 no	
	Say 11.000 no @ Rs 34000.00 / no						**Rs 374000.00**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
13 SIGNAGE AND BOARDS								
1	od67484/2019_2020 Providing and fixing of Advance Direction / Way finding / Reassurance Sign board of size 1000 mm x 1500 mm made out of Type-XI encapsulated lens type retro reflective sheeting wide. Base Sheeting shall be of White Color Type XI Retro Reflective Sheeting fixed over 2 mm thick Aluminium Composite Material sheet with area exceeding 0.9 sqm fixed over back support frame of M.S.Angle 35 x 35 x 5 mm all round mounted on two 50 mm dia MS Pipe with clear height of not less than 2.1 m from the ground level to the bottom of the board as per approved drawings. The sign post should be painted with one coat of red oxide paint and two coats of 1 st quality synthetic enamel paint Black & white colour with bands of 30 cm height. The sign post shall be firmly fixed in to the ground by means of properly designed foundation with M15 grade concrete size 450mm x 450mmx 600 mm, including cost,conveyance of all materials, equipment,machinery and labour with all leads and lift,loading charges necessary for satisfactory completion of the work as directed by Engineer in-Charge.							
	In driveway	3					3.000	
	Total Quantity						3.000 each	
	Total Deducted Quantity						0.000 each	

						Net Total Quantity	3.000 each	
						Say 3.000 each @ Rs 18119.40 / each	**Rs 54358.20**	
2	od67487/2019_2020 Supply and fixing sticker type signage at site (on door or similar locations) in proper line & level. The signage letters shall be made with premium quality vinyl sheet of approved colour, pasted on “3M”make self-adhesive film of approved colour, including supply of all material labour etc. required for proper completion of work. Before making the signage text & font of letters in best fit size will be set in computer so as to give aesthetic look as per sample available with ITD							
	In class rooms	24	35.000	7.600			6384.000	
	Workshops	12	35.000	7.600			3192.000	
						Total Quantity	9576.000 sqcm	
						Total Deducted Quantity	0.000 sqcm	
						Net Total Quantity	9576.000 sqcm	
						Say 9576.000 sqcm @ Rs 0.36 / sqcm	**Rs 3447.36**	
3	od67490/2019_2020 Supply and fixing bilingual signage in English. The signage letters will be made with premium quality vinyl sheet of approved colour, pasted on 3mm thick aluminium composite panel backing. The signage will be either fixed on the wall with the screws & double tape or hanged from the false ceiling with the help of hooks & chains complete work.							
	In admin area	16	40.600	10.200			6625.920	
		10	50.800	20.300			10312.400	
						Total Quantity	16938.320 sqcm	
						Total Deducted Quantity	0.000 sqcm	
						Net Total Quantity	16938.320 sqcm	
						Say 16938.320 sqcm @ Rs 0.74 / sqcm	**Rs 12534.36**	
4	od67494/2019_2020 Supply & fixing 5 mm thick aluminum compressed Panel (ACP) sheet in the required size for building name signage. The sheet will be cut into size as per the size of signage to be fixed in position (Stone façade, grit wash, gypsum board etc.) with screws & tape including s/o all material labour T&P etc. required for proper completion of work.							
	Building name	5	120.000	30.000			18000.000	
	in gate	1	300.000	60.000			18000.000	
						Total Quantity	36000.000 sqcm	
						Total Deducted Quantity	0.000 sqcm	
						Net Total Quantity	36000.000 sqcm	
						Say 36000.000 sqcm @ Rs 0.43 / sqcm	**Rs 15480.00**	
5	od67499/2019_2020							

	Supply & fixing stainless steel (SS) letters made with SS-304 grade 20 gauge sheet as per the approved size & shade including fixing on ACP sheet in required height line & level including s/o all T&P etc. required for proper completion of work. Before making the letters the font & size will be got approved from ITD.							
	Name of building	1	820.000				820.000	
						Total Quantity	820.000 cm	
						Total Deducted Quantity	0.000 cm	
						Net Total Quantity	820.000 cm	
						Say 820.000 cm @ Rs 36.01 / cm	**Rs 29528.20**	
6	od67503/2019_2020 Supply and fixing symbol signage such as No. Smoking, No Spitting, Drinking Water etc. signage of standard sizes as per conventional design/ colour code on 3 mm thick aluminium composite panel. The signage will be either fixed on the wall with the help of screws & double tape or hanged from the false ceiling with the help of chain & screws etc. complete work.							
		14	35.000	7.600			3724.000	
						Total Quantity	3724.000 sqcm	
						Total Deducted Quantity	0.000 sqcm	
						Net Total Quantity	3724.000 sqcm	
						Say 3724.000 sqcm @ Rs 0.85 / sqcm	**Rs 3165.40**	
7	od67506/2019_2020 Printing of floor plans on approx. A2 size poster sheet with indelible ink framing the same in 3mm thick acrylic sheet and 1" studs complete. The floor plans will be fixed on the wall with the help of screws and double tape etc. to give neat & finished look							
	In new admin building	2	0.420	0.584			0.491	
	In old admin building	2	0.420	0.584			0.491	
						Total Quantity	0.982 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	0.982 sqm	
						Say 0.982 sqm @ Rs 1393.80 / sqm	**Rs 1368.71**	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
14 CONTINGENCIES								
						Lump-Sum Total	**Rs 194534.00**	
						Provision for GST payments (in %) @	**12.0%**	
						Amount reserved for GST payments	**2357757.01**	
						Total	**22005732.01**	
						Lumpsum for round off	**67.99**	

TOTAL Rs 22005800.00
Rounded Total Rs 2,20,05,800
Rupees Two Crore Twenty Lakh Five Thousand Eight Hundred Only

(Cost Index Applied for this estimate is 37.93%)