ABSTRACT OF ESTIMATE SMART ROAD PHASE 2

	TOTAL LENGTH 3000 MI	ETERS
	SUMMARY SHEET	
Sr No.	Item Description	Amount
SI NO.	nem Description	(In Rs.)
1	ROAD	₹ 7,89,29,212.16
2	UTILITY DUCT	₹ 5,91,30,411.04
3	STORM WATER DRAIN	₹ 4,27,02,608.70
4	PEDESTRIAN TRACK	₹ 2,77,58,152.96
5	ROAD SIGNAGES	₹ 23,66,841.60
6	LANDSCAPE WORK	₹ 59,09,390.28
7	BOUNDARY WALL	₹ 58,25,103.84
8	SEWER WORKS	₹ 48,92,371.19
9	UNDER GROUND ELECTRICAL WORK	₹ 13,26,53,429.84
10	STREET LIGHT WORK	₹ 1,14,65,519.00
	TOTAL	₹ 37,16,33,041
	SAY RS (in Crores)	₹ 37,16,33,041
	GST @ 12%	₹ 4,45,95,964.87
	TOTAL including GST	₹ 41,62,29,005.48

ESTIMATE OF ROAD

TOTAL LENGTH 3000 METERS

S.No.	UADD SOR Vol II & III, ITEM NO	Descriptions of Item	Quantity	Rate	Revised Reduced Rates as per Order	Unit	Amount
	2.1 Vol III	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable					
1	V 01 111	material with all lifts and up to a lead of 1000 mtrs and					
		earth filling in the depression/pit and as per relevant					
		clauses of section-200 for i					7.000
	i) ii)	Girth from 300 mm to 600 mm each 136.00	25.00 15.00	136.00 224.00	122.40 201.60		₹ 3,060.00 ₹ 3,024.00
	iii)	Girth beyond 600 mm to 900 mm Girth beyond 900 mm to 1800 mm	10.00	465.00	418.50		₹ 4,185.00
	iv)	Girth above 1800 mm	7.00	906.00	815.40		₹ 5,707.80
2	2.3, (i) Vol III	Dismantling					
		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead 1000 meter.					
		Cement Concrete Grade M-15 & M-20	335.55	234.00	210.60	cum	₹ 70,667.73
3	2.40	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 meter, stacking serviceable and unserviceable materials separately and as per relevant clauses of section-200.					,,,,,,
	a)	Bituminous courses	3523.32				
	a)	Bituminous courses	3523.32	358.00	322.20	cum	₹ 11,35,213.58
	2.12 vol III	Removal of telephone / Electric poles including					
4		excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 meter and stacking the serviceable and unserviceable material separately.					
		Total quantity	30.00	90.00	81.00	each	₹ 2,430.00
5	3.1, Vol III	Excavation Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300	8400.00				
			7200.00				
		Total quantity	15600.00	98.00	88.20	cum	₹ 13,75,920.00
6	3.11, Vol III	Earthwork					
		Construction of Embankment/Sub grade/ earth shoulders, as per clause 305 & its sub-clauses, Where required but with approved materials/soil like morrum CBR value not less then 7% i/c all lead & lifts i/c excavation, cost of watering, mpaction and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.					
			2625.00				
			2250.00				
		Total quantity	4875.00	272.00	244.80	cum	₹ 11,93,400.00

	ı			1	ı	1	
		Crusher Run Macadam Sub Base/Base Course Providing					
		crushed stone aggregate, depositing on a prepared					
		surface by hauling vehicles, spreading and mixing with a					
		motor grader, watering and compacting with a vibratory					
	MD DIA/D						
	MP PWD	roller to clause 410 to form a layer of sub-base/Base in					
_	SOR	accordance to Table No. 400-14, 400-15 and as per clause					
7	4.12/P-23	of section 407 of specifications.					
		Widening Part	1575.00				
		Widening Part	1350.00				
		Exisiting Road	3675.00				
	4.12 i	For 53 mm maximum size	6600.00	1181.00	1062.90	CuM	₹ 70,15,140.00
			1575.00				
			1350.00				
	4.12 i	For 37.5 mm maximum size	2925.00	1171.00	1053.90	CuM	₹ 30,82,657.50
		Construction of granular sub-base by providing coarse					
		graded material, spreading in uniform layers with on					
	UADD	prepared surface, mixing by mix in place method at					
	SOR	OMC, and compacting with vibratory roller to achieve					
	Vol iii	the desired density, complete in all respect and as per					
8	4.1/P-30	relevant clauses of section-400.					
		Existing Road	3675.00				
		Widening Part	1350.00				
		Widening Part	1575.00				
	(ii)	for grading- II Material		614.00	EE2 60	C.M	₹ 26 47 160 00
	(11)	ioi grading- ii wateriai	6600.00	614.00	552.60	CuM	₹ 36,47,160.00
		Construction of dry lean cement concrete Sub-base over					
		a prepared sub-gradewith coarse and fine aggregate					
		conforming to IS: 383, the size of coarse aggregate not					
		exceeding 25mm, aggregate cement ratio not to exceed					
		15:1, aggregate gradation after blending to be as per table					
		of MORTH Specifications 600-1, cement content not to be					
		less than 200 kg/cum, optimum moisture content to be					
		ndetermined during trial length construction, concrete					
		strength not to be less than 10 Mpa at 7 days, mixed in a					
	UADD	batching plant, transported to site, laid with paver with					
	SOR	electronic sensor/mechanical paver, compacting with 8-10					
	Vol iii	tonnes vibratory roller, finishing and curing and as per					
9	6.1/P-60	relevant clauses of section-603.					
			4900.00				
		Total quantity	4900.00	2715.00	2443.50	CuM	₹ 1,19,73,150.00
		1 7					,,,
		Construction of description and also constructed					
		Construction of dowel jointed, plain cement concrete					
		pavement in M-40 grade concrete over a prepared sub					
		base with 43 or higher grade cement, maximum size of					
		coarse aggregate not exceeding 25 mm, mixed in a					
		batching and mixing plant as per approved mix design,					
		transported to site, laid with a fixed form or slip form					
		paver with electronic sensor, spread, compacted and					
		finished in a continuous operation including provision of					
		contraction, expansion, construction and ongitudinal					
		joints, joint filler, separation membrane, sealant primer,		1			
		joint sealant, debonding strip, placing of dowel bar and					
		tie rod, admixtures as approved, curing compound,		1			
	UADD	finishing to lines and grades as per approved drawings					
	SOR	as per IRC-15 2002 and as per relevant clauses of section-					
	Vol iii	602 of of MORTH specifications complete but excluding					
11	6.3/P 60	cost of steel in dowel bar & tie rod etc					
	2.0,1 00	and the state of t	10500.00				
		+	10500.00	4792.00	4312.80	CuM	₹ 4,52,84,400.00
1							
			10000100	17,72,00	1012100	Cuit	1 1/02/01/100100

	SOR Vol iii						1
	Vol iii						1
	, 01 111	Add extra in Item No 6.3 & 6.5 above for the cost of stell					1
10	6.12/P 62	in dowel bar and tie rod etc. required as per design.					į
		Mild Steel dowel bars	82.39	47850.00	43065.00	MT	₹ 35,48,125.35
		Tor steel tie rod	12.31	52800.00	47520.00	MT	₹ 5,84,971.20
		TOTAL					₹ 7,89,29,212.16

	ESTIMATE FOR UNDERGROUND CABLE DUCT IN DWC HDPE PIPE-SMART ROAD WORKS TOTAL LENGTH 3000 METERS									
s.no	UADD SOR 2012	DESCRIPTION	QTY	RATE	REVISED REDUCED RATES AS PER ORDER	UNIT	AMOUNT			
	H WORK									
1	3.1, Vol III	Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300	19140.00							
		For Manholes electrical	2880.00							
			6960.00							
		For Manholes OFC	345.60							
		Total quantity	29325.60	127.00	114.30	Cum	₹ 33,51,916.08			
2	Vol I 4.1	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by mix in place method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400.								
	i	for grading- I Material								
			652.50							
		At Junction	86.40 348.00							
			21.60							
		Total quantity	1108.50	604.00	543.60	Cum	₹ 6,02,580.60			
3	Vol I 4.4	Deduction for item No.4.1, 4.2 & 4.3 if vibratory roller / mortar grader is not used with prior written approval by the not below the rank of Executive Engineer.								
		i) If static roller is used in place of vibratory roller.	1108.50	-51.00	-45.90	Cum	-₹ 50,880.15			
		ii) If mortar grader is not used.	1108.50	-51.00	-45.90	Cum	-₹ 50,880.15			
CARR	IAGE									
4	Vol. I 1.2	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip) Excavated Earth 25% above								
		For 5 km lead	7500.00	127.50	114.75	Cum	₹ 8,60,625.00			
		Beyond 5 Kms and upto 10 Kms (add for every Km)								
	-	For 6 km lead	2500.00	133.50	120.15	Cum	₹ 3,00,375.00			
		For 7 km lead For 8 km lead	2300.00 3400.00	139.50 145.50	125.55 130.95	Cum Cum	₹ 2,88,765.00 ₹ 4,45,230.00			
		For 9 km lead	2200.00	151.50	136.35	Cum	₹ 2,99,970.00			
		For 10 km lead	1300.00	157.50	141.75	Cum	₹ 1,84,275.00			
PCC 5	13.6 VOL III	Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with .								
		Cement concrete grade M-15 (Nominal Mix) with 40								
		mm maximum size of stone aggregate.	445.60			C				
		PCC at base of manhole place-Electrical PCC at base of manhole place-OFC	115.20 29.44			Cum Cum				
		PCC at the BASE of DWC HDPE pipe-Electrical	812.00			Cum				
		PCC at the BASE of DWC HDPE pipe-OFC	464.00			Cum				
0.1.7	PHIPIC	Total quantity	1420.64	3692.00	3322.80	Cum	₹ 47,20,502.59			
SAND	FILLING						İ			

	13.10VOL III	Sand filling in wells complete as per drawing and					1
6	13.10 VOL 111	technical specifications as per clause 1209.					
		Total Sand filling -Electrical Trench	11310.00			Cum	
		Total Sand filling -OFC Trench	4640.00			Cum	
		Deduction					
		For the area of DWC HDPE Pipe-Elctrical Duct	819.54			Cum	
		For the area of DWC HDPE Pipe-OFC Duct	165.27			Cum	
		Total quantity	14965.19	1059.00	953.10	Cum	₹ 1,42,63,318.87
		DWC HDPE PIPE Providing& Laying					
		Supplying and installing Double wall corrugated pipes					
		(DWC) of HDPE (IS 14930 Part-II marked) for cable laid					
		under ground with necessary connecting sockets/					
7	Vol iv .17.4	couplings,tees of same material and at required depth					
		upto 90cm. below road/ground surface,including					
		excavation, back filling with excavated material with					
		ramming and making the surface good.					
a	17.4.9	175.00 mm outside dia.	27000.00	432.00	388.80	Meter	₹ 1,04,97,600.00
b	17.4.8	160.00mm outside dia.	18000.00	407.00	366.30	Meter	₹ 65,93,400.00
c	17.4.7	145.00mm outside dia.	900.00	376.00	338.40	Meter	₹ 3,04,560.00
d	17.4.6	120.00mm outside dia.	450.00	333.00	299.70	Meter	₹ 1,34,865.00
e	17.4.5	110 mm out side dia	450.00	309.00	278.10	Meter	₹ 1,25,145.00
f	17.4.4	90.00mm outside dia.	450.00	254.00	228.60	Meter	₹ 1,02,870.00
g	17.4.3	77.00mm outside dia.	450.00	222.00	199.80	Meter	₹ 89,910.00
h	17.4.2	63 mm out side dia	1500.00	210.00	189.00	Meter	₹ 2,83,500.00
i	17.4.1	50 mm outside dia	1500.00	207.00	186.30	Meter	₹ 2,79,450.00
		RCC					
	13.6 VOL III	Providing and laying Plain/Reinforced cement concrete					
		(mixed in concrete mixture) in					
_		open foundation including form work shuttering etc.					
8		complete as per drawing and					
		technical specifications and as per relevant clauses of					
		sections 1500, 1700 & 2100					
		with . RCC Grade M25 with 20 mm maximum size of					
		aggregate					
		Man hole walls					
		Base of manhole	206.72				
		Two walls in manhole	506.88				
			25.27				
			142.88				
		Total quantity	881.75	4300.00	3870.00	Cum	₹ 34,12,372.50
		Precast Reinforced Cover for manhole					
	14.5 VOL III	Providing and laying Plain/Reinforced cement concrete					
		(mixed in concrete mixture) in sub-structure or					
9		complete RCC Box section as per drawing and technical					
		specifications and as per relevant clauses of sections					
		1500, 1700 & 2200 in (Height above average ground					
		level) For man hole cover-Electrical	122.40				
		For man hole cover-DFC	15.84				
			138.24	4371.00	3933.90	cum	₹ 5,43,822.34
							, ,
		Reinforcement					
	13.26 VOL III	Supplying, fitting and placing un-coated HYSD bar					
10		reinforcement in foundation complete as per drawing					
10		and technical specifications and as per relevant clauses					
		of sections 1600.					# 42 A- · · ·
			80.07	56994	51294.60	Tonne	₹ 41,07,118.36
		, ·					
		Demotralia					
		Dewatering Dewatering of water caused by springs, tides or river					
11	Vol III 212	Dewatering of water caused by springs, tides or river					
11	Vol. III 2.13		50000.00	51.00	45.90	KI	₹ 22.95 000 00
11	Vol. III 2.13	Dewatering of water caused by springs, tides or river seepage, broken water mains or drains or well or the	50000.00	51.00	45.90	KL	₹ 22,95,000.00
11	Vol. III 2.13	Dewatering of water caused by springs, tides or river seepage, broken water mains or drains or well or the	50000.00	51.00	45.90	KL	₹ 22,95,000.00
		Dewatering of water caused by springs, tides or river seepage, broken water mains or drains or well or the	50000.00	51.00	45.90	KL	₹ 22,95,000.00
11 12	Vol. III 2.13	Dewatering of water caused by springs, tides or river seepage, broken water mains or drains or well or the like.	50000.00	51.00	45.90	KL	₹ 22,95,000.00

13	Non SOR	Supply Installation of HDPE DWC Spacer for DWC Pipe (IS 14930 Part II -marked), 12 Pieces of set to connect 6 No. DWC Pipes of required size	1,900	each	1,050.00	1,050.00	₹ 19,95,000.00
		TOTAL					₹ 5,91,30,411.04

			TE OF STO								
S No.	UADD SOR	Descriptions of Item	Measurem		ETER	<u>s</u>		Rate	Revised	Unit	
5 140.	ITEM NO	Descriptions of item	No.	L	В	Н	Quantity	Rate	Reduced Rates	Cint	
1	Vol. I 15.1	Earth work in Excavation for pipe trench in all kinds of soil and WBM in areas including dressing, watering and ramming and disposal of Excavated earth lead upto 50 meters and lift upto 1.5m, disposal earth to be leveled, neatly dressed.									
	2.9.1	All kind of soil									
	2.5.1	THE KING OF SOM	2.00	3000.00	1.00	1.30	7800.00				
		At Junction	12.00	25.00			390.00				
			2.00	3000.00		0.75					
		Total quantity	12.00	25.00	0.60	0.75	135.00 11025.00	129.10	116.19	cum	₹ 12,80,994.75
2	Vol I	Filling with moorum for pipe bedding or over the pipe									,,,,,,
	15.9	including supply of moorum									
	2.27.1	Crusher Stone Dust	2.00	3000.00							
		At Junction	12.00 2.00	25.00 3000.00	1.00	0.10	30.00 360.00				
			12.00	25.00	0.60	_	18.00				
		Total quantity					1008.00	625.00	562.50	cum	₹ 5,67,000.00
3	Vol. I 16.15.2	Carriage of Material by Mechanical transport including loading unloading & stacking etc.									
a	10.15.2	For 1 km lead					200.00	91.25	82.13	Cum	₹ 16,425.00
b		For 2 km lead					280.00	101.25	91.13	Cum	₹ 25,515.00
c		For 3 km lead					480.00	110.00	99.00	Cum	₹ 47,520.00
d		For 4 km lead					590.00	118.75	106.88	Cum	₹ 63,056.25
e f		For 5 km lead Beyond 5 Kms and upto 10 Kms (add for every Km)					740.00	127.50	114.75	Cum	₹ 84,915.00
		For 6 km lead					1450.00	133.50	120.15	Cum	₹ 1,74,217.50
		For 7 km lead					1580.00	139.50	125.55	Cum	₹ 1,98,369.00
		For 8 km lead					980.00	145.50	130.95	Cum	₹ 1,28,331.00
		Cement Concrete M-20 (Duct)									
3	15.18 Vol I	Providing & laying mechanically mixed cement concrete 20mm maximum size graded crushed stone including cost of centering & shuttering. M 15 with 20mm maxumum size of aggregate.									
		P.C.C Bed	2.00	3000.00	1.00	0.10	600.00				
			12.00	25.00		0.10					
			2.00	3000.00		0.10					
		Total quantity	12.00	25.00	0.60	0.10	18.00 1008.00	4321.00	3888.90	cum	₹ 39,20,011.20
4	15.19 Vol I	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including concrete laying, cost of centering, shuttering, finishing and including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-incharge. M-20 grade									
		design mix reinforced cement concrete by using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement.									
		using 405 kg. of cement per cum of concrete. All work									
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick	2.00	3000.00			480.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick	2.00 4.00	3000.00 3000.00							
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick At Junction	4.00	3000.00	0.15	1.00	1800.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick			0.15	1.00	1800.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick At Junction RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick A.L.C. Wall 100 MM Thick Along Road	4.00 24.00 48.00	3000.00 25.00 25.00	0.15 0.10 0.10	0.10 1.00	1800.00 6.00 120.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick At Junction RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick R.C.C. Wall 100 MM Thick Along Road RCC Base 100 MM Thick	4.00 24.00 48.00 2.00	25.00 25.00 3000.00	0.15 0.10 0.10 0.50	0.10 1.00 0.10	6.00 120.00 300.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick At Junction RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick R.C.C. Wall 100 MM Thick Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick R.C.C. Wall 100 MM Thick R.C.C. Wall 100 MM Thick	4.00 24.00 48.00	3000.00 25.00 25.00	0.15 0.10 0.10 0.50	0.10 1.00 0.10	6.00 120.00 300.00				
		using 405 kg. of cement per cum of concrete. All work up to plinth level excluding the cost of reinforcement. Along Road RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick At Junction RCC Base 100 MM Thick R.C.C. Wall 100 MM Thick R.C.C. Wall 100 MM Thick Along Road RCC Base 100 MM Thick	4.00 24.00 48.00 2.00	25.00 25.00 3000.00	0.15 0.10 0.10 0.50 0.10	1.00 0.10 1.00 0.10 0.45	1800.00 6.00 120.00 300.00 540.00				

Total quantity

5	15.20 Vol I	Providing and laying Plain/ Reinforcement cement									
		concrete in sub structure or complete section									
		including cost of form work staging/bracing and									
		shuttering complete as per drawing and technical									
		specification and as per relevant I.S. Standard (Height									
		above average ground level).									
		Along Road									
			2.00	3000.00	1 10	0.10	660,00				
-		Precast Grating Cover for Drains At Junctions	2.00	3000.00	1.10	0.10	000.00				
			24.00	25.00	1.10	0.10	66.00				
		Precast Grating Cover for Drains	24.00	25.00	1.10	0.10	66.00				
		Along Road									
		Precast Grating Cover for Drains	2.00	3000.00	0.60	0.10	360.00				
		At Junctions									
		Precast Grating Cover for Drains	24.00	25.00	0.60	0.10	36.00				
		Total quantity					1020.00	5698.00	5128.20	cum	₹ 52,30,764.00
6	15.22 Vol I	Reinforcement for R.C.C. work including									
		straightening, cutting, bending, placing in position									
		and binding all complete.									
	5.20.6	Thermo-Mechanically Treated bars									
		Total Weight of steel KG-	Total Quant	tity of Concr	ete x ().8%x	209124.00				
		Total Weight of steel KG-	Total Quant	ity of Precas	st Cov	er x 0.	64056.00				
							273180.00	60.00	54.00	Kg	₹ 1,47,51,720.00
											₹ 4,27,02,608.70

ESTIMATE OF PEDESTRIAN PATH TOTAL LENGTH 3000 METERS

2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Serb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	33,490.00
1 3.1, Vol III Excavation Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300 At Junctions 450.00 Total 9450.00 98.00 88.20 cum ₹8,6 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹6,5	3,490.00
Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300 At Junctions Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 xith At Junction At Junction Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 At Junction Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement Concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	3,490.00
truck for carrying of cut earth to embankment site with all lifts and lead upto1000 metres and as per relevant clauses of section-300 At Junctions Total 9000.00 At Junctions 1otal 9450.00 98.00 88.20 cum 7 8,6 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 1183.50 3692.00 3322.80 Sqm 7 39,6 3 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with Cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm 7 6,6	3,490.00
with all lifts and lead upto1000 metres and as per relevant clauses of section-300 At Junctions At Junctions Total Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 At junction Total Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 At junction Total Supplying Junction 4 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing 13.6 VOL III Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	3,490.00
relevant clauses of section-300 At Junctions At Junctions Total 9000.00 Total 9450.00 98.00 88.20 cum 8.5.2 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 Xith 8 270.00 At junction 1183.50 900.00 Kerb Along Footpath 270.00 At junction 1183.50 97 roviding and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm 6.54	3,490.00
At Junctions At Junctions At Junctions Total 9450.00 98.00 88.20 cum ₹8,2 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	3,490.00
At Junctions Total Total 450.00 Fotal 9450.00 98.00 88.20 Cum ₹ 8,2 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. Cement Concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	3,490.00
Total 9450.00 98.00 88.20 cum ₹8.2 2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	3,490.00
2 13.6 VOL III Cement Concrete M - 15 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. Skerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	3,490.00
Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹6,5	
Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00	
open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing 1500, 1700 & 180.00 1	
complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with 900.00 Kerb Along Footpath 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	
and as per relevant clauses of sections 1500, 1700 & 2100 with. September 13.50 270.0	
2100 with. 900.00 Kerb Along Footpath 270.00 At junction 13.50 1183.50 270.00 At junction 13.50 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
with. Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing 13.26 VOL III 13.26 VOL III Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing 900.00 270	
Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing 900.00	
At junction 13.50 1183.50 3692.00 3322.80 Sqm ₹ 39,2 Providing and laying Plain/Reintorced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
3 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 13.26 VOL III Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
3 Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	
concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	2,533.80
concrete (mixed in concrete mixture) in open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	
open foundation including form work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	
13.6 VOL III complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5	
and as per relevant clauses of sections 1500, 1700 & 2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,9	
2100 with . Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,9 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,9 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
mm maximum size of stone aggregate. 180.00 4277.00 3849.30 Sqm ₹ 6,5 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	
4 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing \$\frac{13.26 \text{ VOL III}}{2}\$,
4 Supplying, fitting and placing un-coated HYSD bar 13.26 VOL III reinforcement in foundation complete as per drawing	
Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation complete as per drawing	2,874.00
13.26 VOL III reinforcement in foundation complete as per drawing	
clauses of sections 1600.	
Clauses of sections 1000.	
Total Weight of steel KG- 11.30 56994 51294.60 Tonne ₹5,7	9,834.16
5 Chequerred precast cement concrete tiles 18-20mm	
thick in footpath & courtyard jointed with neat	
cement slurry mixed with pigment to match the	
11.20 Vol II shade of tiles including rubbing and cleaning etc.	
complete on 20 mm thick	
bed of cement mortar 1:4 (1 cement: 4 coarse sand).	
Along Road	
Medium Shade Using 50% white Cement & 50%	
111.20.1	
At junction	02,000.00
Medium Shade Using 50% white Cement & 50%	2,000.00
	2,000.00
	02,000.00 02,000.00

6	MP PWD- ROAD & BIDGE 6.16	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.					
			21000.00				
			840.00			-	
		ii) 80mm thick C.C. paver block of M-35 grade with					
		approved colour, design and pattern.	21840.00	680.00	612.00	SqM	₹ 1,33,66,080.00
7		Kerb Stone					
	8.1, Vol III, pg 69	Providing and laying at or near ground level factory made kerb stone of M- 25 grade cement 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 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer-incharge (length of finished kerb edging shall be towards road side at Junction Total Quantity Providing and Laying of PLASTITRAK, Roll-on Surfacing Material: A Solvent Free, High Build, Two pack, Seamless, Tough, skid resistant 1.0-1.5 mm thick red (or as required) based on Gloss and color retaining Acrylic Cross Linking Resin System for Cycle track and similar applications including surface cleaning and cost of all material etc. complete.		187.00	168.30	meter	₹ 10,55,241.00
8							
		Towards road side	2700.00				
		at Junction	540.00		4450.00		7.07 0.000 0.00
		Total Quantity	3240.00	1150.00	1150.00	meter	₹ 37,26,000.00
						TOTAL	₹ 2,77,58,152.96

ESTIMATE OF ROAD MARKING, STREET FURNITURES & PLANTATION

TOTAL LENGTH 3000 METERS

		TOTAL LENGTH 3000 ME	IEKS				
S No.	UADD SOR ITEM NO	Descriptions of Item		Rate	Revised Reduced Rates as per Order	Unit	Amount
			Quantity				
1	Item 8.10 Vol III	Road Marking	-				
		Solid Lines in White Colour					
		Road Marking with Hot Applied Thermoplastic					
		Compound with Reflectorising Glass Beads on Bituminous					
		Surface (Providing and laying of hot applied					
		thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250					
		gms per sqm area, thickness of 2.5 mm is exclusive of					
		surface applied glass beads as per IRC:35 .The finished					
		surface to be level, uniform and free from streaks and					
		holes and as per relevant clauses of section-800.					
		Solid Lines in White Colour	900.00				
		Brocken Lines in White Colour	450.00				
		Stop Lines in White Colour	180.00				
		Applying Zebra Crossing	480.00				
		Total Quantity	2010.00	900.00	810.00	Sqm	₹ 16,28,100.00
2	Item 8.8	Painting lines, dashes, arrows etc					
	Vol III	Deinting lines, deckes among ete on made in true costs on					
		Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint					
		conforming to IS:164 on bituminous surface, including					
		cleaning the surface of all dirt, dust and other foreign					
		matter, demarcation at site and traffic control as per					
		relevant clauses of section-800 & I.R.C67 including cost					
		of paint etc. complete.	2250.00	70.00	63.00	Sqm	₹ 1,41,750.00
3	II NI - 0 2	C:					
3	Item No 8.3 Vol III	Signages					
	. 0						
		Providing and fixing of retro- reflectorised cautionary,					
		mandatory and informatory sign as per IRC :67 made of encapsulated lens type reflective sheeting vide clause					
		801.3, fixed over aluminium sheeting, 1.5 mm thick					
		supported on a mild steel angle iron post 75 mm x 75 mm					
		x 6 mm (height from crown level of the road and bottom of					
		the sign board shall not be less than 1.5 m.) firmly fixed to					
		the ground by means of properly designed foundation					
		with M15 grade cement concrete 45 cm x 45 cm x 60 cm, 60					
		cm below ground level as per approved drawing					
		including painting of vertical post as per specification.					
		90 cm equilateral triangle	16.00	3715.00	3343.50		₹ 53,496.00
		80 cm x 60 cm rectangular	32.00	4537.00	4083.30	1105	₹ 1,30,665.60
4							
		Road Delineators (Supplying and installation of					
		delineators (road way indicators, hazard markers, object					
		markers), 80-100 cm high above ground level, painted					
		black and white in 15 cm wide stripes, fitted with 80 x 100					
		mm rectangular or 75mm dia circular reflectorised panels					
		at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant					
	8.12 Vol III	clauses of section-800 of specifications.					
	5.12 V 01 111				ļ		

			350.00	292.00	262.80	each	₹ 91,980.00
5		Road Markers/Road Stud with Lense Reflector (Providing					
		and fixing of road stud 100x 100 mm, dia cast in					
		aluminium, resistant to corrosive effect of salt and grit,					
		fitted with lense reflectors, installed in concrete or					
		asphaltic surface by drilling hole					
		30 mm upto a depth of 60 mm and bedded in a suitable					
		bituminous grout or epoxy mortar, all as per BS 873 part					
	8.20 Vol III	4:1973)					
			500.00	713.00	641.70	each	₹ 3,20,850.00
		TOTAL					₹ 23,66,841.60

Landscape Development along Proposed Smart Road, Jabalpur <u>TOTAL LENGTH 3000 METERS</u>

S.No.	SOR Ref	Particular of item	Qty	Unit	Rate	Revised Reduced Rates as per Order	Total Amount
		Torreschione in conditionary Scillarate and continue (O.C.)					
		Trenching in ordinary Soil upto a depth of 60 Cm					
		including removal & Stacking of serviceable					
		Material and then disposing of by speading and					
		neatly leveling with in lead of 50m and making					
		up the trenched area to proper levels by filling					
		with earth or earth mixed with sludge or/and					
		manure before and after flooding trench with					
	UADD SOR	water(excluding cost of imported earth, sludge or					
1		manure)	5760.00	CUM	129.00	116.10	668736.00
		Supplying & Stacking of good earth at site					
	UADD SOR	including royalty & carriage up to 1km(earth					
	VOL II	measured in stacks will be reduced by 20% for					
2	19.2	Payment)	2880.00	CUM	184.00	165.60	476928.00
		Supplying & Stacking Sludge at Site including					
	UADD SOR	royalty Carriage up to 1 km(sludge measured in					
3	VOL II 19.3	stack will be reduced by 8% for payment)	2880.00	CUM	162.00	145.80	419904.00
		Supplying & stacking at site dump manure From					
		Approved Source including carriage up to 1					
		km(manure Measured in stacks will be reduced					
		by 8% for payment) screened through sieve of					
4	19.4.1	1.S.designation 20mm	2880.00	CUM	105.00	94.50	272160.00
		Rough dressing the trenched ground including					
5	19.5	breaking clods.	5760.00	100 SQM	42.00	37.80	2177.28
		Uprooting Weeds From the trenched Area after					
		10 to 15 Days of its Flooding with water					
6	VOL II 19.6	including Disposal of Uprooted Vegetation.	5760.00	100 CUM	137.50	123.75	7128.00
		Spreading of Sludge ,Dump manure & good					
		earth in required thickness (cost of sludge, dump		_			
7	VOL II 19.8	manure or And good earth to be paid separately)	5760.00	CUM	15.00	13.50	77760.00
		Mixing earth & sludge or manure in proportion					
8	VOL II 19.9	Specified or directed.					
				o			
		Adding the quantity of earth, sludge and manure	8640.00	CUM	102.00	91.80	793152.00
		Total Cast of Selection-one Grass (Carpet					
		Grass)including Leveling shaping compaction					
		work soil treatment, grass fixing charges cost of					
	MP PWD	irrigation deweeding ,Hoeing & maintenance up	44.6.6	007.5	40= 00		
9	23.10	to 90 Days	1440.00	SQM	197.00	177.30	255312.00

		Т			l		<u> </u>
		Preparation of beds for hedging and shrubbery					
		by excavating 60cm deep and trenching the					
		excavated base to a further depth of 30cm,					
		refilling the excavated earth after breaking clods					
		and mixing with sludge or manure in the ratio of					
		8:1(8 parts of stacked volume of earth after					
		reduction by 20%: one part of stacked volume of					
		sludge or manure after reduction by 8%),					
		flooding with water, filling with earth if					
		necessary, watering and finally fine dressing,					
		leveling etc. including stacking and disposal of					
		materials declared unserviceable and surplus					
		earth by spreading and leveling as directed,					
		within a lead of 50m lift up to 1.5 m complete					
		(cost of sludge, manure or extra earth to be paid					
-10	10.15	for separately).		CI II f			221100 00
10	19.13		5760.00	CUM	62.00	55.80	321408.00
		Digging holes in ordinary Soil & refilling the					
		same with the Excavated Earth mixed with					
		Manure or sludge in the ratio of 2:1 by volume(2					
		Part of Stacked, Volume of earth after reduction					
		by 20% 1 Part of Stacked Volume of manure after					
		reduction by 8%) flooding with Water dressing					
		including removal of rubbish & Surplus earth. If					
	UADD SOR	any with all leads & Lifts(Cost of manure /					
11	VOL II 19.14	Sludge/ Soil if needed to be paid for separately)					
		Holes 60 cm dia and 60 cm deep	1400.00	EACH	24.00	21.60	30240.00
		Holes 45 cm dia and 45 cm deep	3500.00	EACH	21.00	18.90	66150.00
		Holes 30 cm dia 30 cm deep	3500.00	EACH	10.00	9.00	31500.00
		Hedge & other Cluster Ground Cover Plantation					
		& Digging Charges					
		Providing and fixing M.S. flat iron tree guard					
		60cm dia. and 2m height above ground level					
		formed of 4 nos. 25x6mm and 8 nos. 25x3mm					
		vertical M.S. flats rivetted to 3 nos. 25x6mm M.S.					
		flat iron rings in two halves, bolted together with					
		8mm dia. and 30mm long bolts including					
		painting two coats with paint of approved brand					
		and manufacture over a coat of priming,					
	UADD SOR	1					
12	VOL II 19.16		350.00	EACH	2037.00	1833.30	641655.00
		Edging with bricks laid dry length wise					
		including excavation, refilling, consolidating					
		with hand packing and spreading neatly surplus					
40		earth					
13		within a lead of 50 m:					
	19.19.2 19.19.2.1	50 class designation. chimney. Bricks	1750.00	METER	34.00	20.60	E2EE0.00
	17,17,4,1	cimuley. Difers	1/30.00	MILIEN	34.00	30.60	53550.00
						<u> </u>	

		Preparation of mounds of various size and shape					
		by available excavated /supplied earth in layers					
		not exceeding 20 cm in depth, breaking clods,					
		watering of each layer, dressing etc lead upto 50					
		meter and lift upto 1.5 m complete as per					
	MP PWD	direction Of Officer-in-charge .					
14	SOR 23.24	_	300.00	cum	153.00	137.70	41310.00
		Providing and Planting different Variety of					
	MP PWD	Plants of approved quality and Size as					
15	SOR 23.15	mentioned					
		Any of one from Plumeria alba, Ficua benjamina,					
		Michelia champaca, Begonia, Plumria Pudica			1		
	MP PWD	plants or equivalent (1.80 m to 2 m height) or					
16	SOR 23.15.1	equivalent	250.00	EACH	645.00	580.50	145125.00
		Any of one from Lantana Variagated/red,					
		Lantana blue white, Hamelia Patens, dwarf,					
		Langtana variagated, Tecoma radicans, Duranta					
	MP PWD	plumieri (golden) (Height 0.3 m to 0.45 m) or					
17	SOR 23.15.2	equivalent	7500.00	EACH	33.00	29.70	222750.00
		A ((IIII C.11					
		Any of one from Hibiscus, Galphimia, Bamboo					
	A CD DIAZO	variagated, TMC spp., Hamelia patens,					
40	MP PWD	Bougainvillea, Canna red/yellow, Jaquemontia	= 000 00	EACH	54.00		242000.00
18	SOR 23.15.3	(height 0.3 m to 0.45 m) or equivalent	5000.00	EACH	54.00	48.60	243000.00
		Any of one from spathodia, Silver oak, Thuja,					
	MP PWD	Bottle brush, Ixora coccinea, (height 0.45 m to					
19	SOR 23.15.4	0.60 m)or equivalent	500.00	EACH	319.00	287.10	143550.00
		Any of one from Clerodendron inermi,			1		
	MP PWD	Allamanda nerifolia, Allamanda cathartica,					
20	SOR 23.15.5	Bougainvillea or equivalent	7500.00	EACH	96.00	86.40	648000.00
					1		
	MP PWD	Foxtail palm or equivalent (1.80 m to 2.10 m					
21	SOR 23.15.7	height) or equivalent	75.00	EACH	1784.00	1605.60	120420.00
					1		
	MP PWD				1		
22	SOR 23.15.8	Cycus (1.80 m to 2.10 m height) or equivalent	50.00	EACH	3067.00	2760.30	138015.00
					1		
	MP PWD						
23	SOR 23.15.9	Ficus spp. (1.80 m to 2.10m height) or equivalent	100.00	EACH	994.00	894.60	89460.00
							F000200 50
	Total for land	dscape development along proposed Smart Re	oad				5909390.28

ESTIMATE OF BOUNDARY WALL

TOTAL LENGTH 3000 METERS

		TOTAL LENGTH 30	JULI III				
S. No	SOR Item No.	Item of Work	Quantity	Unit	Rate	10% Reduced Rate as per UADD Orders	Reduced Amount in Rs.
1	Excavation						
	2.8.1, Vol. 2, Pg	Earth work in excavation by mechanical means					
	16	(Hydraulic avator) / manual means in foundation					
		enches or drains (not exceeding 1.5 m in width or 10					
		sqm on plan) including dressing of sides and					
		ramming of bottoms, lift upto 1.5 m, including					
		getting out the excavated soil and disposal of surplus					
		xcavated soil as directed, within a lead of 50 m2.8.1					
		All kinds of soil					
		For pile cap, (.65 x .65 x .25 m)	72.25				
		T T T T T T T T T T T T T T T T T T T	72.25	CuM	129.00	116.10	₹ 8,388.23
2	Concrete						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	4.1.2, Vol. 2, Pg	Providing and laying in position cement concrete of					
	34	specified grade excluding the cost of centering and					
		shuttering All work up to plinth level					
	<u> </u>	J r · · · · ·		<u></u>		<u></u>	
		4.1.2 Cement concrete grade M-15 with 20 mm					
		max.size of stone agg.					
		Total	14.45	CuM	4154.00	3738.60	₹ 54,022.77
	16.9, Vol. 2, Pg	Boring, providing and installing bored cast-in-situ					
	187	reinforced cement concrete pile of specified					
		diameter and length below the pile cap M 20 in					
		cement concrete, to carry a safe working load not less					
		than specified, excluding the cost of steel					
		reinforcement but including the cost of boring with,					
		bentonite solution and temporary casing of					
		appropriate length for setting out and removal of					
		same and the length of the pile to be embedded in the					
		pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile					
		for payment shall be measured upto bottom of pile					
		cap).					
	16.0.1	_	1000.00	D	11(5.00	1049 50	Ŧ 10.40 F00.00
	16.9.1	300 mm dia piles	1000.00	Rm	1165.00	1048.50	₹ 10,48,500.00
	5.1, Vol. 2, Pg	Providing and laying in position specified grade of					
	46	reinforced cement concrete excluding the cost of					
	1	centering, shuttering, finishing and reinforcement -					
	1	All work up to plinth level :					
	1	5.1.1 Cement concrete grade M-20 (Nominal Mix)					
	1	with 20 mm maximum					
		size of stone aggregate.					
		Total	26.85	Cum	4728.00	4255.20	₹ 1,14,252.12
	_	Reinforced cement concrete work in walls (any					
	46	thickness), including attached pilasters, buttresses,					
		plinth and string courses, fillets, columns, pillars,					
		piers, abutments, posts and struts etc. up to floor two					
	1	level excluding cost of centering, shuttering, finishing					
	1	and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone					
		aggregate					
		Total	85.50	Cum	5050.00	4545.00	₹ 3,88,597.50
		10(a)	05.30	Cuili	3030.00	4343.00	3,00,397,30
3	Reinforcement						

	T	'		-	r			
	5.20.6, Vol. 2,	Reinforcement for R.C.C. work including						
	Pg 49	straightening, cutting, bending, placing in position						
		and binding including cost of binding wire upto floor						
		two level including all wastage etc. complete.						
		5.20.6 Thermo-Mechanically Treated bars.						
		Total	16253.25	Kg	60.00	54.00	₹	8,77,675.50
				U				
4	Back Filling & V	Vater Proofing						
	2.25, Vol. 2, Pg	Filling by available excavated earth (excluding rock)						
	19	in trenches, plinth, sides of foundations etc. in layers						
		not exceeding 20cm in depth, consolidating each						
		deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.						
		50 in and int up to 1.5 in.						
		Total	30.95	CuM	59.00	53.10	₹	1,643.45
		Providing and laying damp-proof course 50mm thick						
	4.10. Vol. 2, Pg	with cement Cement concrete grade M-15 (Nominal						
	36	Mix) with 20 mm maximum size of stone aggregate Total	107.40	Sam	226.00	202.40	*	25 015 22
	4.11 Vol. 2 Pc		127.42	Sqm	226.00	203.40	₹	25,917.23
	4.11. Vol. 2, Pg 36	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of						
	30	cement.						
		Nos of Bag@410 kg or 8.2bags per cum		Per 50				
				kg				
			8811.89	cement	61.00	54.90	₹	4,83,772.88
5	Centering & Shu	attering						
	20.1.1, Vol. 2,	Centering & shuttering propping and removal of						
	Pg 209	form for						
	20.1.1	Foundations, footings, bases of columns, etc. For						
		mass concrete. Total	179.20	Sqm	138.00	124.20	₹	22,256.64
	20.1.6, Vol. 2,	Centering & shuttering propping and removal of	17,7,20	34111	20000	121120		22,250,01
	Pg 209	form for Columns, Pillars, Piers, Abutments, Posts,						
	o o	Struts.						
		Total	546.00	Sqm	282.00	253.80	₹	1,38,574.80
	20.1.5, Vol. 2,	Centering & shuttering propping and removal of						
	Pg 209	form for						
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.						
		Total	498.00	Sqm	203.00	182.70	₹	90,984.60
				- 1				, , , , , , , , , , , , , , , , , , , ,
6	Brick Work							
	6.35, Vol. 2,	Brick work with mechanized autoclaved flyash lime						
	Pg 62	bricks conforming to IS: 12894 :2002 of class						
		designation 100 in superstructure above plinth level						
	(25.4	up to floor 2 level in.	211.80	C.M	2024.00	2010.60	3	6.16.456.06
	6.35.1	Cement mortar 1:4 (1 cement :4 coarse sand)	211.80	CuM	3234.00	2910.60	,	6,16,456.26
7	Cement Plaster							
	13.11, Vol. 2, Pg	18 mm cement plaster in two coats under layer 12						
	157	mm thick cement plaster 1:5 (1 cement: 5 coarse sand)						
		finished with a top layer 6 mm thick cement plaster						
		1:6 (1 cement: 6 fine sand).						
		T-1-1	2007.70	C	140.00	40440	7	4.04.000.00
-		Total	2997.76	Sqm	149.00	134.10	<	4,01,999.62
8	Stone Work							
		40 mm thick fine dressed stone flooring over 20 mm						
	130	(average) thick base of cement mortar 1:5 (1 cement :						
		5 coarse sand) including pointing with cement mortar						
		1:2 (1 cement : 2 stone dust) with an admixture of						
		pigment to match the shade of stone. (minimum size						
		of kota stone 0.25 m)						
	l							

		Total	218.82	SqM	477.00	429.30	₹	93,939.43
	10.25 Vol. 2, Pg	Steel work welded in built up sections/ framed work						
	116	including cutting, hoisting, fixing in position and						
		applying a priming coat of approved steel primer						
		using structural steel etc. as required.						
		Total (A+B)	14325.48	Kg	67.00	60.30	₹	8,63,826.44
9	Painting							
	13.48.3 Vol. 2,	Painting Steel work with Deluxe Multi Surface Paint						
	Pg 162	to give an even shade. Two or more coat applied						
		@0.90 ltr/10 sqm over an under coat of primer applied						
		@ 0.80 ltr/ 10 sqm of approved brand or manufacture						
			648.80		€ 00			
		Total	612.20	sqm	65.00	58.50	₹	35,813.70
		Providing and applying 1.5 mm thick (in two coat)						
	159	white cement based wall putty of best quality, over						
		plastered surface to prepare the surface even and						
		smooth complete.	200==6	6.14	02.00	=2 00	-	2 24 224 60
		Quantity as above in Plaster (External)	2997.76	SqM	82.00	73.80	₹	2,21,234.69
	_	Finishing walls with textured exterior paint of						
	161	required shade :						
		New work (Two or more coats applied @ 3.28 ltr/10						
		sqm) over and including base coat of water proofing						
		cement paint applied @ 2.20kg/10 sqm.						
		Quantity as above in External Plaster	2997.76	SqM	125.00	112.50	₹	3,37,248.00
		TOTAL					₹	58,25,103.84

	EST	IMATE OF SEWERLINE FROM PROPERTY TO T	RUNK LIN	E SMA	RT ROAD	WORKS	
S. No	UADD SOR	Description	Quantity	Unit	Rate	Revised Reduced Rates	Amount (INR)
1	UADD SOR VOL I 15.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
a		Depth upto 1.5m	1895.72	Cum	129.1	116.2	220263.71
2	UADD SOR VOL I 15.8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	1745.50	Cum	29.00	26.1	45557.55
5	UADD SOR Vol I 15.18	Class Ab bedding: Providing and laying mechanically mixed cement concrete 20 mm maximum size graded crushed stone including cost of centering &					
		shuttering M15	164.24	cum	4321	3888.9	638712.94
9	12.2 Vol I	Providing and supply of DWC HDPE Pipes of renowned duly tested inclusive of all taxes related to central, state and municipal, inclusive of excise duty, inspection charges, transpotation charges, transit insuranse, loading/ unloading and stacking at site/ store etc, complete.					
	12.2.1 Vol I	Internal dia /Outer dia					
	12.2.1.3 Vol I	135 mm / 160 mm	600.00	Meter	191.00	171.90	103140.00
a	12.2.1.4 Vol I	170 mm / 200 mm	2000.00	Meter	298.00	268.20	536400.00
10	12.1 Vol I	Providing, laying and jointing following P.V.C U pipes with solvent cement joint for Non-pressure gravity drain and sewer applications including testing of joints, cost of jointing materials etc. complete in all respect. [Conform to IS 15328:2003, solvent cement shall conform to IS 14182].					
		110 mm dia.	560.00	185.00	166.50	Meter	93240.00
-		125 mm dia	200.00	249.00	224.10	Meter Meter	44820.00
		160 mm dia 200 mm dia	800.00 280.00	343.00 606.00	308.70 545.40	Meter	246960.00 152712.00
			_30.00	20.00	2 23.10		
11	14.7 Vol I	Making connection of drain or sewer line with existing service lines manhole including breaking into and making good the walls, floors etc. with cement concrete grade M-15 (Nominal Mix) with stone aggregate 20mm nominal size plastered with Cement Mortar 1:3 (1 Cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels etc. complete.					
	14.7.1 Vol I	For 100 to 150 mm dia pipes	600.00	321.00	288.90	Each	173340.00
	14.7.2 Vol I	For 250 to 300 mm dia pipes	300.00	362.00	325.80	Each	97740.00

		Total			2020.00	1000.20	4892371.19
		complete.	90.00	Nos.	4818.00	4336.20	390258.00
	14.2.5.2	100mm thickness conforming to IS: 12592 - 2002					
3	Vol(i)	Man hole Cover (Heavy Duty) 500mm dia having					
	SOR	600x450mm and 900mm deep including Pre Cast RCC					
	UADD	Man hole with above specifications having inside size					
			30.00	Nos.	6557.00	5901.30	177039.00
	11121011	complete.					
	14.2.5.1	100mm thickness conforming to IS: 12592 - 2002					
	SOR Vol (i)	900x450mm and 900mm deep including Pre Cast RCC Man hole Cover (Heavy Duty) 500mm dia having					
	UADD	Man hole with above specifications having inside size					
		including supply of moorum	3456.00	625.00	562.50	Cum	1944000.00
	15.9 Vol I	Filling with moorum for pipe bedding or over the pipe					
		Filling	1080.00	29.00	26.10	Cum	28188.00
12							
		in all kinds of soils					
		ramming watering, lead up to 50m and lift up to 1.5m					
		sides of foundation in layers not exceeding 20cm. in depth including consolidation of each layer by					
	15.8 Vol I	Filling available excavated earth in trenches, plinth					

UNDER GROUND ELECTRIFICATION WORK FOR SMART ROAD TOTAL LENGTH 3000 METERS

		TOTAL LENGTH 300	o me reno	_			
Sr. No.	Item Code	Description of Items	Qty	Unit	Rate	Revised Reduced Rates	Amount
		HT Cable specification, Laying and Termination					
1	MP PWD SOR 41.3	Supply of approved High-Tension XLPE cable (conforming IS-7098/II/85) as per ISI standard 3 core Armoured with Alu. Solid/stranded conductor ISI					
	41.5	MARKED as required					
		3 CORE XLPE CABLE 11 KV GRADE					
	MP PWD SOR 41.3.1.1	50 Sq.mm.	200	Mtrs	841.00	756.90	1,51,380.00
	MP PWD SOR 41.3.1.2	70 Sq.mm.	300	Mtrs	999.00	899.10	2,69,730.00
	MP PWD SOR 41.3.1.3	95 Sq.mm.	250	Mtrs	1,193.00	1,073.70	2,68,425.00
	MP PWD SOR	120 Sq.mm.	500	Mtrs	1,377.00	1,239.30	6,19,650.00
	41.3.1.4 MP PWD SOR	150 Sq.mm.	500	Mtrs	1,537.00	1,383.30	6,91,650.00
	41.3.1.5 MPPKVVNL		7				
	I-1202001	11 KV - 3X300 Sq mm XLPE Cable	/	KM	16,87,729.00	16,87,729.00	1,18,14,103.00
2	MP PWD SOR 41.10	Providing & Making cable end termination with HEAT SHRINKABLE jointing kit complete with all accessories including lugs suitable for 33 kV/11 kV 3 core XLPE alum. conductor cable as required as per specification and as per accepted standard including connection testing complete.					
	MP PWD SOR 41.10.1	Heat shrinkable joint,kit 11 kV XLPE, 3 Core					
	MP PWD SOR	Heat shr.jointg. kit 11 kV XLPE cable O.D. termination					
	41.10.1.1	b.3 x 50-95 sq.mm.	15	Each	11,768.00	10,591.20	1,58,868.00
	111101111	c. 3 x 120-185 sq.mm.	15	Each	13,078.00	11,770.20	1,76,553.00
	MP PWD SOR	Heat shr.jointg. kit 11 kV XLPE cable I.D. termination	10	Zuerr	10,070,00	11), 7 0.20	17. 0/200100
	41.10.1.2	b.3 x 50-95 sq.mm.	15	Each	14,906.00	13,415.40	2,01,231.00
	11.10.11.2	c. 3 x 120-185 sq.mm.	15	Each	15,691.00	14,121.90	2,11,828.50
	MP PWD SOR	Heat shr.jointg. kit 11 kV XLPE cable Straight Joint				·	
	41.10.1.3	b.3 x 50-95 sq.mm.	12	Each	22,009.00	19,808.10	2,37,697.20
		c. 3 x 120-185 sq.mm. Supply and Installation straight through Heat shrinkable	12	Each	26,902.00	24,211.80	2,90,541.60
	MPPKVVNL I-1301022	cable jointing kit with lugs for 11 kV grade XLPE cable for 3Cx300 sq mm	40	Each	23,335.00	23,335.00	9,33,400.00
3	MP PWD SOR 41.39	Laying of one number 3 core H.T armoured / unarmoured power cable of grade exceeding 1.1kV but not exceeding 11kV of size not exceeding 150 Sq.mm in the existing RCC / Hume / Stoneware / G.I. Pipe / surface in existing trench as required.	3,500	Mtrs	108.00	97.20	3,40,200.00
4	MP PWD SOR 41.5	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connection etc. as per specification complete.					
	MP PWD SOR 41.5.6	Gland Size 45mm 3/3½ x 120 Sq.mm, 3½ x 95 Sq.mm 3 x 150 Sq.mm.	40	Each	137.00	123.30	4,932.00
	MP PWD SOR 41.5.7	Gland Size 50 mm 3½ x 150 Sq.mm, 3 x 185 Sq.mm	45	Each	177.00	159.30	7,168.50
		Pipes Specification and Laying					
5	UADD SOR 17	Suppying & installing G.I. Pipe for protection of underground cable fixed on wall/ support / in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightening conductor down strip/everhead service line/for submer cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, te, elbow, nuts and bolts etc. complete in an approved manner as required to complete the job excluding cost of excavation/dismateling & other finished masonary Item complete.					
	UADD SOR 17.1	For 'B' Class G.I.pipe ISI Marked (IS-1161-68)					
	1/.1						

	UADD SOR						
	17.1.11	150.00mm	500	Mtrs	1,201.00	1,080.90	5,40,450.00
6	UADD SOR 17.4	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid under ground with necessary connecting sockets / couplings, tees of same material and at required depth upto 90cm. below road / ground surface, including excavation, back filling with excavated material with ramming and making the surface good.					
	UADD SOR 17.4.2	63.00mm outside dia.	2,800	Mtrs	210.00	189.00	5,29,200.00
	UADD SOR 17.4.6	120.00mm outside dia.	300	Mtrs	333.00	299.70	89,910.00
	UADD SOR 17.4.10	200.00mm outside dia.	2,000	Mtrs	481.00	432.90	8,65,800.00
7	Non SOR	Supply Installation of HDPE DWC Spacer for 200 mm DWC Pipe (IS 14930 Part II -marked), 18 Pieces of set to connect 9 No. DWC Pipes of size 200mm OD	1,500	each	1,450.00	1,450.00	21,75,000.00
		LT Cable Specification, Laying and Termination					
8	UADD SOR 14.1	Supply of XLPE Insulated power cable (conforming IS-7098) 1100 Volt grade/Heavy duty power cable conforming to IS 1554-1100 Volts grade, 2 core /3½ core/4 coreISI MARKED with Alu. Stranded / Solid conductor					
	UADD SOR 14.1.2	ARMOURED 2 Core					
	UADD SOR 14.1.2.3	6 Sq.mm.(XLPE)	2,000	Mtrs	138.00	124.20	2,48,400.00
	UADD SOR 14.1.2.4	10 Sq.mm.(XLPE)	1,500	Mtrs	154.00	138.60	2,07,900.00
	UADD SOR 14.1.2.5	16 Sq.mm.(XLPE)	800	Mtrs	180.00	162.00	1,29,600.00
	UADD SOR 14.1.6	ARMOURED 3½ CORE					
	UADD SOR 14.1.6.3	50 Sq.mm(XLPE)	100	Mtrs	452.00	406.80	40,680.00
	UADD SOR 14.1.6.4	70 Sq.mm(XLPE)	100	Mtrs	597.00	537.30	53,730.00
	UADD SOR 14.1.6.5	95 Sq.mm.(XLPE)	700	Mtrs	740.00	666.00	4,66,200.00
	UADD SOR 14.1.6.7	150 Sq.mm.(XLPE)	11,200	Mtrs	1,084.00	975.60	1,09,26,720.00
	UADD SOR 14.1.6.8	185 Sq.mm.(XLPE)	400	Mtrs	1,350.00	1,215.00	4,86,000.00
	UADD SOR 14.1.6.10	300 Sq.mm.(XLPE)	100	Mtrs	2,097.00	1,887.30	1,88,730.00
	UADD SOR 14.1.8	ARMOURED 4 CORE					
	UADD SOR 14.1.8.2	10 Sq.mm.(XLPE)	1,000	Mtrs	183.00	164.70	1,64,700.00
	UADD SOR 14.1.8.3	16 Sq.mm.(XLPE)	2,000	Mtrs	229.00	206.10	4,12,200.00
	UADD SOR 14.1.8.4	25 Sq.mm(XLPE)	1,000	Mtrs	281.00	252.90	2,52,900.00
	UADD SOR 14.1.8.5	35 Sq.mm(XLPE)	500	Mtrs	358.00	322.20	1,61,100.00
9	UADD SOR 14.5.2	Supply and making cable end termination with all necessary materials including lugs etc.Heat shr.jointg. kit 1.1 kV XLPE/HD cable O.D. ternmination					
	UADD SOR 14.5.2.a	10-50 sqmm 2 / 3 / 3½ / 4core	40	Each	7,439.00	6,695.10	2,67,804.00
	UADD SOR 14.5.2.b	70-150 sqmm 2 / 3 / 3½ / 4core	50	Each	8,665.00	7,798.50	3,89,925.00
	UADD SOR 14.5.2.c	150-300 sqmm 2 / 3 / 3½ / 4core	80	Each	10,466.00	9,419.40	7,53,552.00
10	UADD SOR 14.5(B)	Cable Jointing					

		Straight through cable jointing kit including compound,					
	UADD SOR	hardener, plastic mould with other accessories for the					
	14.5.1	following aluminium conductor PVC insulated and PVC sheathed cable//XLPE of 1.1 kV grade:(I.D./O.D.)					
	UADD SOR	8(
	14.5.1.a	6-16 sqmm 2 / 3 / 3½ / 4core	50	Each	1,062.00	955.80	47,790.00
	UADD SOR	25-35 sqmm 2 / 3 / 3½ / 4core	50	Each	1,421.00	1,278.90	63,945.00
	14.5.1.b UADD SOR	-					
	14.5.1.c	50-95 sqmm 2 / 3 / 3½ / 4core	20	Each	1,802.00	1,621.80	32,436.00
	UADD SOR 14.5.1.d	120-240 sqmm 2 / 3 / 3½ / 4core	25	Each	2,991.00	2,691.90	67,297.50
	UADD SOR						
	14.5.1.e	300-350 sqmm 2 / 3 / 3½ / 4core	25	Each	3,806.00	3,425.40	85,635.00
	UADD SOR	Supply and makingHeat shr.jointg. kit 1.1 kV XLPE/HD					
	14.5.2	cable straight through jointing.kit complete with all accessories including lugs etc. (I.D.,/O.D.)					
	UADD SOR	decessories metading rags etc. (i.b.i.jo.b.i.j					
	14.5.2.a	6-16 sqmm 2 / 3 / 3½ / 4core	10	Each	2,789.00	2,510.10	25,101.00
	UADD SOR	25-35 sqmm 2 / 3 / 3½ / 4core	10	Each	3,768.00	3,391.20	33,912.00
	14.5.2.b UADD SOR						
	14.5.2.c	50-95 sqmm 2 / 3 / 3½ / 4core	10	Each	4,725.00	4,252.50	42,525.00
	UADD SOR 14.5.2.d	120-240 sqmm 2 / 3 / 3½ / 4core	10	Each	7,177.00	6,459.30	64,593.00
	UADD SOR	200 250 comm 2 / 2 / 214 / 4core	10	Each	12 590 00	12 222 00	1 22 220 00
	14.5.2.e	300-350 sqmm 2 / 3 / 3½ / 4core	10	Each	13,580.00	12,222.00	1,22,220.00
11	UADD SOR 14.6	BRASS COMPRESSION GLAND					
		Supplying and fixing heavy duty cable gland for P.V.C.					
	UADD SOR 14.6.1	insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connection etc. as per					
	14.0.1	specification complete.					
	UADD SOR	Gland Size 22mm suitable for cable 2,3,3½& 4 x upto 6	15	Each	38.00	34.20	513.00
	14.6.1.1 UADD SOR	Sq.mm Gland Size 22mm suitable for cable 2,3, 3½, 4 x 10 Sq.mm					
	14.6.1.2	or 2x 16 Sq.mm	10	Each	44.00	39.60	396.00
	UADD SOR 14.6.1.3	Gland size 28mm for 3,4 x 16 Sq.mm	10	Each	66.00	59.40	594.00
	UADD SOR	Gland size 32mm for 2,3, 3½, 4 x 25 Sq.mm OR 2,3, 3½ x 35	4-		7 (00	60.40	
	14.6.1.4	Sq.mm OR 2,3 x 50 Sq.mm.	15	Each	76.00	68.40	1,026.00
	UADD SOR 14.6.1.5	Gland sixe 38mm 3½ x 70 Sq.mm, 3x95 Sq.mm	10	Each	119.00	107.10	1,071.00
	UADD SOR	Gland Size 45mm 3/3½ x 120 Sq.mm, 3½ x 95 Sq.mm, 3 x	12	Each	149.00	134.10	1,609.20
	14.6.1.6	150 Sq.mm.	12	Each	147.00	134.10	1,009.20
	UADD SOR 14.6.1.7	Gland Size 50 mm 3½ x 150 Sq.mm, 3 x 185 Sq.mm	10	Each	191.00	171.90	1,719.00
	UADD SOR	Gland Size 57mm 3 x 225 Sq.mm, 3 ½ x 185 Sq.mm	12	Each	248.00	223.20	2,678.40
	14.6.1.8 UADD SOR	-					
	14.6.1.9	Gland Size 70mm 3 x 240 Sq.mm, 3½ x 300 Sq.mm	15	Each	353.00	317.70	4,765.50
		Supplying and fixing ferrules. (Aluminium in Line					
12	UADD SOR	connector) As per IS - specification suitable for following					
12	14.7	size of cable with Aluminium stranded/ solid conductor evently cramped with high pressure tool including					
		connection as required complete					
	UADD SOR	For Conductor Size-					
	14.7.1 UADD SOR						
	14.7.1.1	2.5 to 6.00 Sq.mm	50	Each	2.00	1.80	90.00
	UADD SOR	10.00 Sq.mm	30	Each	2.00	1.80	54.00
	14.7.1.2 UADD SOR	-					
	14.7.1.3	16.00 Sq.mm	30	Each	4.00	3.60	108.00
	UADD SOR 14.7.1.4	25.00 Sq.mm	60	Each	5.00	4.50	270.00
	UADD SOR	25 00 Co	200	171	F.00	4.50	488.00
		35.00 Sq.mm	30	Each	5.00	4.50	135.00

1		1			on con	
360.00	7.20	8.00	Each	50	DD SOR 4.7.1.6 50.00 Sq.mm	
151.20	12.60	14.00	Each	12	DD SOR 4.7.1.7 70.00 Sq.mm	
337.50	13.50	15.00	Each	25	DD SOR 4.7.1.8 95.00 Sq.mm	
297.00	19.80	22.00	Each	15	DD SOR 4.7.1.9 120.00 Sq.mm	
697.50	27.90	31.00	Each	25	DD SOR 4.7.1.10 150.00 Sq.mm	
513.00	34.20	38.00	Each	15	DD SOR 4.7.1.11 185.00 Sq.mm	
1,395.00	55.80	62.00	Each	25	DD SOR 1.7.1.12 240.00 Sq.mm	
4,005.00	80.10	89.00	Each	50	DD SOR 1.7.1.13 300.00 Sq.mm	
					LT Cable Laying	
1,44,000.00	18.00	20.00	Mtrs	8,000	Laying of one number PVC insulated and PVC sheathed DD SOR power cable of 1:1 kV grade of size not exceeding 25 Sq.mm in the existing RCC Hume/ Stone/Ware/G.I. pipe as required	13
) 1,51,200.00	25.20	28.00	Mtrs	6,000	Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 400 Sq mm in the existing RCC / Hume Stoneware / G.I. Pipe as required.	
1,800.00	36.00	40.00	Mtrs	50	Laying of one number PILC/PVC insulated and PVC sheathed power cable of grade exceeding 1.1kV but not exceeding 11kV of size not exceeding 400 Sq.mm in the existing RCC / Hume / Stoneware / G.I. Pipe as required.	
900.00	22.50	25.00	Mtrs	40	DD SOR Laying of cement concrete or approved type of cable cover 14.13 / flag stone over L.T. cover trench as per specification.	14
					DD SOR Supplying of approved type precast R.C.C. cable cover class EHV / HVP at site inclusive of transport required.	
1,062.00	53.10	59.00	Each	20	DD SOR Cable cover class EHV-type-I with peak size 450 x 230 x 4.14.1 50mm.	
1,440.00	72.00	80.00	Each	20	DD SOR Cable cover class EHV-type-I with peak size 600 x 230 x 4.14.2 50mm.	
418.50	27.90	31.00	Each	15	DD SOR Cable cover class HVP-type-I with peak size 300 x 180 x 4.14.3 40mm.	
810.00	40.50	45.00	Each	20	DD SOR Cable cover class HVP-type-II with peak size 450 x 180 x 4.14.4 40mm.	
20,844.00	173.70	193.00	Each	120	Fixing Route Marker with cement concrete 1:2:4 (1cement and 2 coarse sand :4graded stone aggregate 20mm nominal size) of size 60cm x 60cm at the bottom and 50cm x 50cm at the top with a thickness of 10cm including inspection duly engraved as required.	15
18,990.00	189.90	211.00	Each	100	Supplying Route Marker with 10cm x 10cm G.I. Plate 5mm. Thick with Inspection thereon bolted/welded to 35mm x 35mmx 6mm angle iron 60cm long and fixing the same in ground as required.	16
					Earthing	
					Supplying and erecting earth pit of minmum bore dia 150 mm size, approved make safe earthing electrode consiting pipe in pipe tecnologie as per IS 3043-1987 made of corriosion free GI pipes having outer pipe dia of 50 mm having 80-200 micron galvanising, inner pipe dia of 25 mm having 20-250 micron galavinsing, connection teriminal dia of 12 mm with constent OHMIC value sourrounded by highly conductiv compund with high charge disipation sutible for effective and maintence free earthing	17
77,760.00	6,480.00	7200	Each	12	DD SOR with 2 mtr. Pipe in normal soil with 25 kg (one bag) back filling compound	
8,74,800.00	9,720.00	10800	Each	90	DD SOR 1.40.2 with 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound	

	UADD SOR	with 2 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg	6	Each	8800	7,920.00	47,520.00
	11.40.3	(one bag) back filling compound with 3 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and		Each	8000	7,920.00	47,320.00
	UADD SOR 11.40.4	14 mm terminal dia, in soft rock/marshy soil with 25 kg (two bag) back filling compound	90	Each	13300	11,970.00	10,77,300.00
18	UADD SOR 11.8	Supplying and laying 25mm X 5mm G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	500	Mtrs	65	58.50	29,250.00
19	UADD SOR 11.9	Supplying and laying 25mm X 6mm G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	3,500	Mtrs	77	69.30	2,42,550.00
20	UADD SOR 11.16	Providing and fixing 4.00mm G.I. wire on surface or in recessed /concealed for loop earthing as required.	2,000	Mtrs	35	31.50	63,000.00
21	UADD SOR 11.20	Providing and fixing of lightning conductor finial made of 25mm dia 300mm long G.I. tube having single prong at top with 85 mm dia 6 mm thick G.I. base plate including holes complete as required.	50	Each	502	451.80	22,590.00
22	UADD SOR 11.26	Providing and fixing G.I. tape 20mm X 3mm thick on parapet and surface of wall of lightening conductor as required (for Vertical runs)	600	Mtrs	62	55.80	33,480.00
23	UADD SOR 11.37	Providing and laying earth continuity conductor including fixing with					
	UADD SOR 11.37(B)	G.I. Or Steel Earth Continuity Conductor :-					
	UADD SOR 11.37.1	6 Sq mm.	1,000	Mtrs	7.00	6.30	6,300.00
		Cable Tray Supply and erection of hot dip G.I. cable tray perforation					
24	MP PWD SOR 41.54	not more than 17.5% for specific dimensions along with tees, bends The cable tray shall be hang from ceiling / fixed to wall with necessary angle/flat iron / hanging rod, for ceiling suspensions, clamps, anchor fastner, nuts, bolts, washers, not mor than 1.5 mtr. apart complete as per specification to complete the job. The tray shall be as follows:-					
	MP PWD SOR 41.54.3	300 x 50 mm x 1.6mm thick	300	Mtrs	844.00	759.60	2,27,880.00
	MP PWD SOR 41.54.4	450 x 50 mm x 2 mm thick	200	Mtrs	1296.00	1,166.40	2,33,280.00
	MP PWD SOR 41.54.5	600 x 50 mm 2 mm thick	200	Mtrs	1603.00	1,442.70	2,88,540.00
		MISCELLANEOUS Items (Dismentling / Shifting work)					
25	UADD SOR 13.2	Supply of support for overhead line RS joist / H-beam of I.S. standard including welding, drilling of required hole etc. complete as required.					
	UADD SOR 13.2.2	R.S. Joist 175 x 90 - 19.3 kg per meter	1,300.00	Meters	1,029.00	926.10	12,03,930.00
	UADD SOR 13.2.6	H-Beam 152x152mm , Std weight 37.1 kg per meter	930.00	Meters	1,977.00	1,779.30	16,54,749.00
26	UADD SOR 13.13	Erection of steel tubular or steel rail pole or H-Beam of length exceeding 8 meters but not exceeding 10 meters in cement concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation , base padding & muffing including exacavation and refilling etc. as required.(4.55 bags of cement/cmt.)	100.00	Each	2,163.00	1,946.70	1,94,670.00
27	UADD SOR 13.14	Erection of steel tubular or steel rail pole or H-Beam of length exceeding 10 meters but not exceeding 13 meters in cement concrete 1:3:6 (1 cement :3 coarse sand: 6 graded stone aggregate 40mm nominal size) foundation, base padding & muffing including excavation and refilling etc. as required.(4.55 bags of cement/cmt.)	100.00	Each	2,563.00	2,306.70	2,30,670.00
28	UADD SOR 13.58	Supplying of angle/channel flat iron fitting for overhead lines such as cross arms, clamps, brackets, welding and other necessary materials as per specifications.	8,500.00	Kg	54.00	48.60	4,13,100.00
29	UADD SOR 13.79	Supplying and erection of 11kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required.	60.00	Set	375.00	337.50	20,250.00

				ı			T
30	UADD SOR 13.80	Supplying and erection of 11kV disc insulator for 11kV overhead lines with galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	45.00	Set	1,089.00	980.10	44,104.50
31	UADD SOR 13.81	Supplying and erection of 33kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required.	45.00	Set	1,012.00	910.80	40,986.00
32	UADD SOR 13.82	Supplying and erection of 11kV disc insulator for 33kV overhead lines with galvanized insulator fittings, ball and socket type, and complete with galvanized strain clamp, bolts, nuts washer etc. as required.	30.00	Set	3,067.00	2,760.30	82,809.00
33	UADD SOR 13.86	Painting of Pole Bracket cable Protecting Pipe and its clamps in two coatings of All enamel based Primer as directed by Engineer-Charge.					
	UADD SOR 13.86.2	Primer Cost over new Steel and other metallic surface with red oxide / zinc chromide paint complete with supply of material labour etc. Including preparation of Surface.	300.00	Sqm	21.00	18.90	5,670.00
	UADD SOR 13.86.3	Primer cost with aluminum paint, brushing complete with material and labour including preparation of surface.	300.00	Sqm	28.00	25.20	7,560.00
34	UADD SOR 15.13	Supplying, installing, testing of earth Coil (coil of 115 turns of 50mm dia, and 2.5 Mtrs. Lead of 4 mm G.I wire.	240.00	Each	219.00	197.10	47,304.00
35	UADD SOR 19.183	Cable connector 35mm	240.00	Each	90.00	81.00	19,440.00
36	MP PWD 42.85	Supplying & drawing / laying of PVC insulated XLPE Aerial bunch power cable conductor H2/H4 grade Aluminium Solid/stranded confirming to IS-14255- 1995, Alu. Alloy insulated messenger 1100 volts grade cable of approved make in Air with necessary material as per specification of required size as mentioned below –					
	MP PWD	(ii) Single Core cable(Insulated neutral messenger)					
	42.85.2 MP PWD 42.85.2.3	(c) 3x50 Sq.mm , 1x16(St.Light), 1x35(Insulated neutral messenger)	400.00	Meters	288.00	259.20	1,03,680.00
	MP PWD 42.85.2.4	(d) 3x70 Sq.mm, 1x16(St.Light), 1x35(Insulated neutral messenger)	400.00	Meters	390.00	351.00	1,40,400.00
	MP PWD 42.85.2.5	(e) 3x95 Sq.mm , 1x16(St.Light), 1x50(Insulated neutral messenger)	3,800.00	Meters	584.00	525.60	19,97,280.00
37	MP PWD 42.86	Supplying & fixing of Aerial bunch cable accessories suspension clamps i/c required attachment for single core cable of approved make on pole with clamp, necessary material as per specification for required size.	75.00	Each	343.00	308.70	23,152.50
38	MP PWD 42.87	Supplying & fixing of Aerial bunch cable accessories Tension clamps(Dead end) i/c required attachment for single core cable of approved make in Air with clamp, necessary material as per specification for required size.	150.00	Each	371.00	333.90	50,085.00
39	UADD SOR 15.3	Supplying installing and testing of AB isolating switch assembly set gang operated suitable for 11/0.4 KV, DP structure with brass part contacts, operating rod with required GI pipe, handle locking arrangement on On-Off position conforming to IS complete with required material and installing on existing structure to complete the job as required as per specification.					
	2	11 kV 33 kV	22.00 30.00	Set Set	7,099.00 15,416.00	6,389.10 13,874.40	
40	UADD SOR 15.4	Supplying, installing ,testing of 11 KV D.O. fuse assembly with brass part contact for 11/0.4 KV DP Structure set of 3 with fuse with barrel with required fuse element & other materials as per specification on existing D.P. structure as required.(set of 3nos.)					
	2	11kV	15.00 20.00	Set	4,700.00	4,230.00	
		33kV	20.00	Set	11,531.00	10,377.90	2,07,558.00

		1			1		_
41	UADD SOR 13.84	Supplying and erection of three piece nonlinear resistor type lighting arrestor suitable for 3 wire, 11kV overhead lines with rated voltage of 9kV (rms) with a nominal discharge current rating of 5 KA and complete with galvanized clamping arrangement, G.I. bolts, nuts, washer etc. as required.	25.00	set	4,284.00	3,855.60	96,390.00
42	UADD SOR 13.85	Supplying and erection of single piece non-linear resistor type lightning arrestor for 3 wire, 33kV overhead lines with rated voltage of 30kV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washer etc. as required.	30.00	Set	39,170.00	35,253.00	10,57,590.00
43	UADD SOR 15.7	Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator 200 amper on incoming, bus bar and 66 S.P.M.C.C.B.of 60 A" .on outgoing side for 63 KVA transformer					
		(i)Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator 200 amper on incoming, bus bar and 6 S.P.M.C.C.B.of 90 A" .on outgoing side for 100 KVA transformer	1.00	Each	17,036.00	15,332.40	15,332.40
		(i)Supplying, installing, testing and commissioning of LT Distribution Box with TPN isolator of 600 amper on incoming, bus bar and 6 S.P.M.C.C.B.of 120 A" .on outgoing side for 200 KVA transformer	1.00	Each	28,393.00	25,553.70	25,553.70
44	UADD SOR 13.5	Supplying and drawing All Aluminum Alloy conductor (AAAC) of approved make confirming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)					
	UADD SOR 13.5.4	0.075 sq.inch / 48 sq.mm Alloy Aluminum Conductor	6.00	KM	59,138.00	53,224.20	3,19,345.20
45	MP PWD 42.5	Supplying and drawing All Aluminum Alloy conductor (AAAC) of approved make confirming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)					
46	MP PWD 42.5.4	AAAC 0.1 sq inch (100 Sq.mm Al. EQ.) - (Dog)	1.00	KM	77,891.00	70,101.90	70,101.90
47	UADD SOR 13.65	Supplying of 50mmx 8mm M.S. Flat iron pole top bracket/cross arm for single 11/22/33kV overhead line conductor complete with fixing bolts, nuts and washers drilling holes for insulator pins, painting with primer and finish paint as required.	45.00	Each	280.00	252.00	11,340.00
48	UADD SOR 13.8	Supplying and drawing guard wire/earth wire/bearer wire 13mm2 (4mm. Dia) G.I. including stringing, binding at existing insulators or brackets, jointing, jumpering, connecting etc. as required and clearing of obstacles (if any)	0.10	KM	9,176.00	8,258.40	825.84
49	UADD SOR 13.24	Supplying and erection of stay set complete (Galvanized) with 19mm.dia 1.8 meter long stay rod, ancher plate of size 300mm x 300 mm x 6.4mm thimble stay clamps,bowtightener, 7/3.15 dia G.I. stay wire and strain insulator etc. in cement concrete 1:3:6 (1 Cement: 3 Coarse and: 6 granded stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required.	40.00	Each	2,634.00	2,370.60	94,824.00
50	UADD SOR 13.62	Supplying and erection of galvanized stay set for 33kV overhead line complete with 19/20mm dia x 1.8 meters long stay rod, anchor plate of size 45cm x 45cm x 7.5mm thick, thimble, stay clamps, turn buckle (20mmx 600mm), 7/4.00mm dia G.I. stay wire and 33kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm. nominal size) foundation including excavation and refilling etc. as required.	45.00	Each	2,906.00	2,615.40	1,17,693.00

51	MP PWD 42.68	Supplying and fixing Limit switch with accessories & arrangement on existing HT/LT structure / poles AB switch handle for inter locking between distribution panel main incoming LT switch gear/ system as required to complete the job. (Distrubtion Box for house connection)	100.00	Each	1,778.00	1,600.20	1,60,020.00
52	UADD SOR 13.57	Dismantling poles / street light standards / struts embedded in cement concrete foundation etc. as required.	200.00	Each	609.00	548.10	1,09,620.00
53	MP PWD 35.10	Dismentalling of existing overhead ACSR, AAAC, GI, conductor and making the site clear i/c transportation to required destination within township.	6,500.00	Meters	4.00	3.60	23,400.00
54	MP PWD 42.63	Shifiting, erection, & commissioning of of 100/ 200 / 315 / 500 KVA (11/0.433 KV) distribution transformer on existing structure including Bi-metallic clamp, ACSR/AAAC Conductor i/c colour code sleeve, for connection from H.T. Line to transformer as required as per specification.	15.00	Each	8,191.00	7,371.90	1,10,578.50
55	UADD SOR 14.11	Excavation of the trenches in Hard Rock not exceeding 1.5 meter in width and lift upto 1.5 meter including getting out the excavated soil and disposal of surplus excavated soil as directed within the lead of 50 meter (without blasting)	50.00	Cu.Mtrs	348.00	313.20	15,660.00
56	UADD SOR 6.2 (V-2)	Brick work with well burnt chimeny bricks in bulls patent trench kiln, crushing strength not less than 25kg/sqcm and water absorption not more than 20% in foundation and plinth					
	UADD SOR 6.2.1 (V-2)	Cement mortar 1:4 (1 cement : 4 coarse sand)	150.00	Cum	4,152.00	3,736.80	5,60,520.00
57	UADD SOR 10.33.15	Cement concrete grade M-20 (Nominal Mix) with 20mm maximum size of stone aggregate (rate from Building ISSR)		Cum	4594.00	4,134.60	4,96,152.00
	Non SOR	Supply, Installation, Testing and Commissioning of Out Door RMU (Ring Main Unit), 12KV, Non- Extensible type, Motorised, 3 way Type (2 LBS + 1 VCB) , 630A, 21KA for 3 Sec STC, SF6 insulated Ring Main unit with structure required for erection for supplying ring feeders for 11KV, with o/c, s/c and e/f protection. The RMU shall meet the criteria for compact, metal-enclosed indoor switchgear in accordance with IEC 62271-1 and IEC 62271-200. SF6 gas used for the filling of the RMU shall be in accordance with IEC 60376. (Make: Siemens /ABB / Schnieder / C&S/Voltmp) RMU manufacturer should have NABL accredited lab for routine tests and IP67 degrees of protection in accordance with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos. , DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set Dual SIM Modem - 1 No.	4	Nos.	6,83,000.00	6,83,000.00	27,32,000.00

59	UADD SOR 9.11 UADD SOR 9.11.1 UADD SOR 9.11.2 UADD SOR 9.11.287	routine tests and IP67 degrees of protection in accordance with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos. , DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set Supplying and fixing as per specification Caution / Danger Board as required of approved make & design with necessary material complete. Small Size Large Size	100 100 100 80	Each	9,38,700.00 106.00 211.00 525.00	9,38,700.00 95.40 189.90 472.50	9,540.00 18,990.00
59	UADD SOR 9.11 UADD SOR 9.11.1 UADD SOR	with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos., DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos., DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set Supplying and fixing as per specification Caution / Danger Board as required of approved make & design with necessary material complete. Small Size	100	Each	106.00	95.40	9,540.00
59	UADD SOR 9.11 UADD SOR 9.11.1	with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos., DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos., DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set Supplying and fixing as per specification Caution / Danger Board as required of approved make & design with necessary material complete.		_			
59	UADD SOR 9.11	with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos. , DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set Supplying and fixing as per specification Caution / Danger Board as required of approved make & design with	10	Nos.	9,38,700.00	9,38,700.00	93,87,000.00
	Non SOR	with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos. , DO card 8 Channels - 2 Nos 1 Set Datapoints - 15 Nos. approx 1 Set	10	Nos.	9,38,700.00	9,38,700.00	93,87,000.00
		Datapoints - 15 Nos. approx 1 Set SITC of Ring Main Unit (5 Way) having 02 nos. vaccum circuit breaker 630 amp rating and 03 nos. load break isolators with Earth switch suitable for termination of 11KV cable on each isolator. The RMU shall meet the criteria for compact, metal-enclosed indoor switchgear in accordance with IEC 62271-1 and IEC 62271-200. RMU manufacturer should have NABL accredited lab for					
	Non SOR	SITC of Ring Main Unit (04 Way) having 01 no. vacuum circuit breaker 630 amp rating and 03 nos. load break isolators with Earth switch suitable for termination of 11KV cable on each isolator. The RMU shall meet the criteria for compact, metal-enclosed indoor switchgear in accordance with IEC 62271-1 and IEC 62271-200. RMU manufacturer should have NABL accredited lab for routine tests and IP67 degrees of protection in accordance with recommendation IEC 60529. RMU should include FPI and FRTU as per the Specification; 1. FRTU shall have adequate cyber security features as per IEEE P1686, IEC62351. 2. IEC 60870-5-101/104 protocol to communicate with the Master station(s) & Modbus over RS 485 for communication with MFTs. 3. The FRTU shall support IEC 61131-3 PLC programming for incorporation of automation logics. 4 The FRTU shall support remote firmware updates. 24V DC battery & Charger 12Ah Capacity - 1 No. Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos 1 Set Digital Outputs 13 Nos. , DO card 8 Channels - 2 Nos 1	8	Nos.	8,27,600.00	8,27,600.00	66,20,800.00

60	MP PWD SOR 42.69	Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire for for D.P. structure electric sub-station including single post of angle iron size 50x50x5mm, 2.5 mt long should be provided up to 2.00 mt. apart or as required. The panel frame with required angle iron/ flat iron members /cross members including mesh welded in frame panel, shall be erected between the post. The angle iron post shall be erected in cement concrete 1:2:4 (20 mm graded metal) foundation, including excavation of pit and	250	Sq.Mtrs	1,110.00	1,110.00	2,77,500.00
		refilling the same . The fencing shall be provided with one entrance gate including locking arrangement as required as per specification. The height of fencing shall be 2 mt. above ground level. Fencing shall be painted with required shade.					
		Package Sub-station					
		SITC 11kV, 630KVA, Outdoor Package / compact Sub- Station (in compliance IEC 62271-202) shall be consisting of following (Make: Siemens /ABB / Schnieder / C&S/Voltmp)	16	Each	33,55,000.00	33,55,000.00	5,36,80,000.00
		HT SWITCHGEAR - 1 Nos.					
		11kV 630Amps 21KA/3 sec. Non-Extensible Ring Main Unit Compact switchgear with Copper busbar (Type CCCV) consisting of Three Nos. Fixed Motorized Load Break switches and One No. Fixed Motorized Vacuum Circuit Breaker in robotically welded having IP67 in SF6 encapsulated stainless steel enclosure of thickness 2.5mm. with series trip, self powered micropro- cessor based numerical over current and earth fault relay protection. Make: ABB / SIEMENS /SCHNEIDER					
		Relay shall be of Ashida make of Model No: ADR241S - 1 No. Protection CT shall be 40/1A 2.5VA 5P10 3 Nos. Fault Passage Indicator for LBS with Short Circuit and Earth Fault Indication - 2 No. Manometer and signal (1NO) from pressure indicator -1 No. Voltage Presence Indicator (L1, L2, L3) for each Module - 3 Nos. Operating Handle -1 No. Pls refer the attached BOM of FRTU -1 No. Space Heater in HT compartment -1 No.					
		TRANSFORMER - 01 Nos.					
		630 KVA 11KV/433V DYn11 Oil filled BIS level-3 Transformer as per 1108 Part-I:2014 and IS 2026. Class of Insulation: Class-A, Winding: Copper, Type of Cooling: ONAN Range: +5% to -5% @ 2.5%, No. of Steps: 4, On HV: Yes, Tap Changer type: OCTC Temp rise of Oil / Winding over design ambient temp. of 50(° C): 40 / 45(° C) Bushing Standard: IS 2099 & IS 3347 Make: Schneider/ABB/Siemens/Raychem/Voltamp					
		LVS PANEL - 1000AMPS ALUMINUM BUSBAR (100% FOR PHASE & 50% FOR NEUTRAL, CURRENT DENSITY- 0.8AMP/SQMM)					
		INCOMER FROM TRANSFORMER - 01 No.					
		1000Amps 433V 50KA 4P Electrical Draw Out (EDO) Air Circuit breaker(ACB) with microprocessor based release for over current, short circuit and earth fault protectionPR 121. Digital Multifunction Meter with Class 1.0 Accuracy with					
		RS 485 port (Make: Rishabh/Secure/Elmeasure) - 01 Set R,Y,B,ON/OFF/TRIP Indications. 1 Set					
		OUT GOING					

	Non SOR	400Amps 36 kA, 433V, 3P+ N Fixed manual Molded Case			
	Non SOR	Circuit breaker (MCCB) with microprocessor based release			
		for over current ,short circuit and earth fault			
		protection.Digital Multifunction Meter with Class 1.0			
		Accuracy with RS 485 port (Make:			
		Rishabh/Secure/Elmeasure) - 02 Nos.			
		·			
		250 Amps 433V 36KA 3P+ N Fixed manual Molded Case			
		Circuit breaker (MCCB) with thermal Magnetic based			
		release forover current & short circuit fault			
		protectionDigital Multifunction Meter with Class 1.0			
		Accuracy with RS 485 port (Make:			
		Rishabh/Secure/Elmeasure) 06 Nos.			
		OUTDOOR ENCLOSURE - 01 Set			
		Outdoor type enclosure having construction of Galvanised			
		Sheet Steel with combination of 2mm thickness for load			
		bearing member and 1.5mm with Non Load bearing			
		member with 4mm HRCA base frame. The Enclosure shall			
		have IP54 degree of protection for HT & LT switchgear			
		compartment & IP23 degree of protection for Transformer			
		compartment. The enclosure shall be Powder Coated			
		(Colour Light Gray & D.A.Gray). Each compartment will			
		be provided with the door and pad locking arrangement.			
		The Compartment illumination lamp with door operated			
		switch shall be provided for MV & LV compartment.			
\vdash					
		INTERCONNECTION AND EARTHING - 01 Set			
		Interconnection Between HT switchgoor & Transfermer			
		Interconnection Between HT switchgear & Transformer			
		using 1Cx3x95 Sq.mm XLPE Single core Aluminium cable			
		& Interconnection between Transformer & LT switchgear			
		using AL. Busbars. Internal earthing connections by using			
		50 x 6mm GI strips including Transformer neutral.			
		FRTU for SCADA		 	
		RMU should include FPI and FRTU as per the			
		Specification;			
		1 -			
		1. FRTU shall have adequate cyber security features as per			
		IEEE P1686, IEC62351.			
		2. IEC 60870-5-101/104 protocol to communicate with the			
		Master station(s) & Modbus over RS 485 to communicate			
		with MFTs.			
		3. The FRTU shall support IEC 61131-3 PLC programming			
		for incorporation of automation logics.			
		4 The FRTU shall support remote firmware updates.			
		24V DC battery & Charger 12Ah Capacity - 1 No.			
		Digital Inputs 32 Nos. , DI card 16 Channels - 2 Nos			
		1 Set			
		Digital Outputs 16 Nos. , DO card 8 Channels - 2 Nos.			
		-1 Set			
		Datapoints - 15 Nos. approx 1 Set			
		Dual SIM Modem - 1 No.			
		Feeder Pillar Panel			
		reeuer i mar ranei			

'		pillar panels suitable for AC 440 V , 50 HZ supply,		l		1	
1 '		fabricated with 14 gauge galvanised steel sheet duly pre-		l		1	
·		treated and pure polyester thick powder coated 80 micron		l	,		
		thickness using Siemens grey colour shade no. RAL-7032 /		I			
·	<u> </u>	any other colour if required by client. The feeder pillar		l	,		
·	<u> </u>	shall be double door in cubical formation,		l	,		
1		compartmentalized in form with front open able doors.			ļ ,		
·	<u> </u>	The door shall be provided with concealed hinges and	96	Each	95,000.00	95,000.00	91,20,000.00
1		with brazing wherever required to avoid deformation and			ļ ,		
1		shall be earthed. All the door shall have heavy duty door			ļ ,		
·	<u> </u>	locks, and shall be sealed with neoprene gaskets. The		l	,		
1					ļ ,		
1		feeder pillar shall be IP 55, outdoor type weather , dust			ļ ,		
·	<u> </u>	and vermin proof having canopy type tapered roof self-		l	,		
·	<u> </u>	standing type as per approved GA diagram. Panels shall		l	,		
		have lifting hooks and base channel of size 50 x 40 x 6 mm			<u> </u>		
		The feeder pillar shall be complete with bus bars, wiring,		I			
1		cabling of proper ratings (not less than 1.5 times the rating			ļ ,		
		of respective switchgears, control gear etc.) for inter					
		connection between switch gear, control gear, metering,					
		safety relays, indicators etc. as per the approved single line					
1		diagram. The feeder pillar shall have proper arrangement			ļ ,		
1	Non SOR	for termination of all incoming and out goings cables. All			ļ ,		
1	,	the bus bars shall be supported on epoxy supports and			ļ ,		
1		shall be insulated with colour coded heat shrinkable			ļ ,		
1		sleeves. Feeder pillar shall be as per the space available at			ļ ,		
·	<u> </u>	site. It shall have earthing bolts at both sides inter		l	,		
1		connected with 50x5 mm Al earthing bus along the width			ļ ,		
·	<u> </u>	of feeder pillar. Note:-The GA drawing for panel should be		l	,		
·	<u> </u>	approved by consultant / engineer in charge before		l	,		
1		fabrication. The feeder pillar shall have space and proper			ļ ,		
1		arrangements for installation of incoming and outgoing			ļ ,		
		MCCBs with R,Y,B LED type indicating lamps.		 	<u> </u>		
1		MCBs etc. complete with interconnection provisions with			ļ ,		
		providing wiring and bus bars with required hardware,					
1		sleeves, ferrules, supporters, locks etc. Panel shall have					
		proper space and arrangements for termination of incomer					
1		loop in loop out cables, outgoing service cables, with					
		proper offsets in bus bars for cable terminations. Feeder					
		Pillar shall be comprising of following items: Rating of incomer MCCB TPN 250 A, 35KA (Adjustable			+		
		ixamig of incomer wicco if N 250 A, 55KA (Adjustable					
L		thermal O/L with Ics = 100% Icu)02 Nos		<u></u>	<u> </u>		
		Outgoing MCB 10KA of 40A SP -75 nos, 10A TPN-2 Nos.,					
<u>'</u>		100A SP-6 Nos,			 '		
		The feeder pillar should have anti-theft tamper proof					
1		feature to automatically send SMS alert if door opening is					
		attempted by unauthorised person.			 		
61	UADD SOR	Supplying and drawing single core PVC insulated cable FR		I			
61	4.3	with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification.					
	****	angua constant in outlace of conceaned as per specialistic.		 	 		
62	UADD SOR	2.5 Sq mm cable					
	4.3.2		4 000	3.6	255.00	229.50	
	8	8 X 2.5 sq mm	1,000	Mtrs			2,29,500.00

63	Non SOR	Supply, fill and seal expanding spray foam sealant, foam shall designed to fill large areas / Holes quickly and permanently. Uses include filling holes, cracks or gaps that require a complete airtight and waterproof seal but are too large to be filled with ordinary caulk. product shall be free from CFC and environment friendly. Technical Data: Type:Polyurethane, Tack Free:After ± 10 min (at +23°C, 50% RH), Can be cut:After ± 20 min (at +23°C, 50% RH), Tensile Strength:9-10 N/cm², Stability load bearing: After ± 12 hours (at +23°C, 50% RH), Fire rating:B3, Temperature resistance:-40 °C till +90 °C (cured), Box Yield:750 ml yields ca. 35 L of foam	250	cc	350.00	350.00	87,500.00
		Total					13,26,53,429.84

Street Lighting work at Smart Road Phase - 2 TOTAL LENGTH 3000 METERS

Sr. No.	SOR	Code	Description	Quantity	Rate	Revised Reduced Rates	Unit	Amount
1	UADD SOR	4.3	CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPING: Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification					
		4.3.1	1.5 Sq mm cable					
		4.3.1.1	1 X 1.5 sq mm	2,000	24.00	21.60	Mtrs	43,200.00
		4.3.2	2.5 Sq mm cable	1 000	22.00	•0.00	3.51	• • • • • • • • • • • • • • • • • • • •
2	UADD SOR	4.3.2.1 8.5	1 X 2.5 sq mm Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle, 10 kA Value AC supply confirming to IS: 8828: 1996, IEC: 60898: 2002 but without enclosures:	1,000	32.00	28.80	Mtrs	28,800.00
		8.5.1	SINGLE POLE (SP)					
		8.5.1.2	6 Amp to 32 Amp Rating	120	166.00	149.40	Each	17,928.00
		8.5.4	FOR TRIPLE POLE (TP)	_				
2	UADD SOR	8.5.4.3	For 40 Amps. Rating only. Fixing of metal clad enclosure on 25X 25 X 5 mm angle iron clamps including supplying and fixing of clamps as required duly embedded in masonary including cable connection and other required material as per specification:-	50	1,145.00	1,030.50	Each	51,525.00
		8.14.1	Fixing of 63 Amps TP or TPN main switches/ DB 63 Amps. 240/415 Volt 4 to 8 way or 63 Amps change over switch /63 Amps 415 Volt Isolator /30 Amps 415V TPN DB upto 6 way per pole and busbar 4 way	50	170.00	153.00	Each	7,650.00
3	UADD SOR	8.16	Fixing of MCB /MCCB/ Isolator					
		8.16.1	Fixing of MCB / Isolator SP/DP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (Labour only)	50	10.00	9.00	Each	450.00
		8.16.2	Fixing of MCB /MCCB Isolator TP /TPN/FP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete.	50	20.00	18.00	Each	900.00
4	UADD SOR	10.23	Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in (open) surface rigid PVC conduit system.	500	93.00	83.70	Each	41,850.00
6	UADD SOR	10.33.15	Cement concrete grade M-20 (Nominal Mix) with 20mm maximum size of stone aggregate (rate from Building ISSR)	45	4,594.00	4,134.60	Cum	1,86,057.00
		10.33.16	Cement concrete grade M-15 (Nominal Mix) with 20mm maximum size of stone aggregate (rate from Building ISSR)	45	4,154.00	3,738.60	Cum	1,68,237.00
7	UADD SOR	11.7	Supplying and laying 6 SWG G.I. wire at 0.5Meter below ground level as conductor earth electrode including soldering etc. as required.	500	15.00	13.50	Mtrs	6,750.00
8	UADD SOR	11.34	Providing and fixing earthing arrangement with 16mm dia 2.5 meter long galvanized iron or steel rod electrode including packing of charcoal powder and salt as per specification watering pipe 19mm dia G.I. Connection etc. complete with refilling the pit as required, but excluding the excavation of earth pit.	150	667.00	600.30	Each	90,045.00
9	UADD SOR	11.38	Providing and laying earth Continuity Conductor of 4 Sq mm Aluminium along the run of final sub circuit in PVC conduit in an approved manner.	3,500	8.00	7.20	Mtrs	25,200.00

			Supplying and erection of water tight terminal box of 14 SWG M.S. Sheet 4mm thick box of required size to					
	1		erect the suitable kit kat / MCB / Switch with Top &					
			bottom folded fitted with rubber ring to make it water					
	UADD		tight with pole clamp made from 40x3mm M.S. flat					
10	SOR	13.10	iron with 2 Nos. Nut and Bolts duly painted with 2					
			coat of Red Oxide paint and 2 coat of Aluminium					
			silver paint erected with cable gland but excluding the					
			cost of the Kit Kat / MCB / Switch complete as per					
			specification:					
		13.10.1	20x15x15Cms.	50	286.00	257.40	Each	12,870.00
		13.10.2	30x20x15 Cms.	25	390.00	351.00	Each	8,775.00
			Supply of XLPE Insulated power cable (conforming IS-					
	UADD		7098) 1100 Volt grade / Heavy duty power cable					
11	SOR	14.1	conforming to IS 1554-1100 Volts grade, 2 core /3½					
			core/4 coreISI MARKED with Alu. Stranded /solid					
			conductor					
		14.1.8	ARMOURED 4 CORE					
		14.1.8.1	6 Sq.mm.(XLPE)	500	168.00	151.20	Mtrs	75,600.00
		14.1.8.2	10 Sq.mm.(XLPE)	2,000	183.00	164.70	Mtrs	3,29,400.00
	HADD	14.1.8.3	16 Sq.mm.(XLPE)	3,000	229.00	206.10	Mtrs	6,18,300.00
12	UADD SOR	14.6	BRASS COMPRESSION GLAND					
			Supplying and fixing heavy duty cable gland for					
			P.V.C. insulated armoured cable with brass washer,					
		14.6.1	Rubber ring complete erected with cable and lead					
			connection etc. as per specification complete.					
		14.6.1.1	Gland Size 22mm suitable for cable 2, 3, 3½ & 4 x upto 6 Sq.mm	10	38.00	34.20	Each	342.00
		14.6.1.2	Gland Size 22mm suitable for cable 2, 3, $3\frac{1}{2}$, 4×10 Sq.mm or 2×16 Sq.mm	50	44.00	39.60	Each	1,980.00
			Supplying and fixing cramping type Alum. lugs as per					
			I.S.S. Specification suitable for following size of cable					
	UADD		with Alu. / Copper solid / stranded conductor evently					
13	SOR	14.8	cramped with high/pressure tool and connected to					
			switch gear / Bus / M.C.C.B./ M.C.B. etc. as required					
			complete. For Conductor Size					
		14.8.1	6mm to 16 Sq.mm	500	5.00	4.50	Each	2,250.00
	UADD	14.10	CABLE LAYING					
	SOR	14.10						
			Laying of one number PVC insulated and PVC					
14		14.10.7	sheathed power cable of 1:1 kV grade of size not	3,000	20.00	18.00	Mtrs	54,000.00
			exceeding 25 Sq.mm in the existing RCC Hume / Stone	-,				
			/ Ware / G.I. pipe as required.		1			
			Designing & casting with M-20 cement concrete					
	TIARR		foundation suitable for 9 mtrs.					
15	UADD	16.7	Octagonal poles considering the safe soil bearing	120	13,500.00	12,150.00	Each	14,58,000.00
	SOR		capacity at site as 10 T/sqm at 2 mtrs. Depth including					
			excavation, foundation nut bolts in an approved					
			manner.					

16	UADD SOR	16.11	Providing and erecting 25 mt high mast lighthing system with 12 nos metal halide flood light fittings of 2x400 watt each complete with control gear and lamps with integral power tool, weight 1000 kg having 3 section hot dip galvanizied material as per BSEN ISO 1461 thick of 3 mm & 4 mm dia / 5 mm 150 top and 460 bottom respectively. The mast shall be stress fitted at site as per IS overlap dyanamic loading to with standard maximum wind pressure as per IS 875 part III and parmeters of structures and foundation desingn should be taken form wind tunnel test. The mast shall have lighting protection of GI single spike of 1200 mm length at top. The base inside compartment with double internal lock with adequate size of MCB mounted on PVC board complete with base palte of 30 mm thick 670 mm diameter and foundation bots having 8 nos bots of 30 mm / 850 MM daimeter (TS 600) anchor plate 590 PCD including accessories Viz	4	4,75,000.00	4,27,500.00	Each	17,10,000.00
	UADD SOR	16.11	(1) Lantern carriage of 50 NB ERW calss B pipe covered with PVC sleevs suitable to carry 750 KG load and upto 16 fitting symmmetricaly (2) Traliling copper cable of 8x2.5 sqmm EPR insulaed PVC shetched (3) Double drum winch having gear ration 531 oil bath (SAE/90/140) arrangement to be Type tested from NIT or IIT for (4) 2 nos stainless wire ropes 6 mm diameter (7/19) oreaing load capacity 2400 kg x2 (5) integral power tool 3 phase 1.5 HP 2 m/min single speed Tourque limited 750 Kg (6) Feeder pillar out of 14 SWG CRCA sheet and comparaise of incoming 63 A TPN MCB single dial timer, sutiable size of contractotrs for lighting and power tool, 2 nos. outgoing and reversing switch of motor.Twin doam avation light 2 no.s 100 watt lamp.					
17	UADD SOR UADD SOR	17.4.1 17.4.1 17.4.2 289	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid under ground with necessary connecting sockets / couplings, tees of same material and at required depth upto 90cm. below road / ground surface, including excavation, back filling with excavated material with ramming and making the surface good. 50.00mm outside dia. 63.00mm outside dia. Excavation including refilling as required	500 3,000 100	207.00 210.00 165.00	186.30 189.00 148.50	Mtrs Mtrs	93,150.00 5,67,000.00 14,850.00
19	PWD SOR 2014	42.93	Providing and erecting hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade)					
20	PWD SOR 2014	42.93.7	9 mtrs. Height, 155 X 70mm A/F, 260x260x16mm base plate, 4 nos. X 24 x 750mm bolt	120	24,908.00	24,908.00	Each	29,88,960.00
21	PWD SOR 2014	42.94	Providing and fixing of sword canopy type single arm GI bracket upto 2 Mtr. Long for 70mm A/F top octagonal pole	80	3,478.00	3,478.00	Each	2,78,240.00
22	PWD SOR 2014	42.95	Providing and fixing of sword canopy type double arm GI bracket upto 2 Mtr. Long for 70mm A/F top octagonal pole	40	5,645.00	5,645.00	Each	2,25,800.00