			GENER	AL ABSTRACT				
Name of W	/ork	:-	PROPO	SED CONSTRUCTION	N OF			
			BITUME	ENOUS SMART ROA	D OF BARGI F	IILLS		
			VIA TE	CHNO PARK JABALI	PUR (M.P)			
Amount		:-	17.75	Crore				
Project Cir		:-	JABALPU	R				
Project Division :- JABALPI			JABALPU	R				
Length of	Road	:-	2100 M					
Sr. No.			PARTICU	JLAR	AMOUNT (in lacs)			
1	FLEXIBLE	PAVMENT	(9.0M WID	E ROAD)	953.99			
2	DRAIN (90	0 X 900)			203.49			
3	DIVIDER (1	I.0M WIDE)		48.73			
4	SLAB CUL	VERT			91.40			
5	FOOTHPA	TH (2.5M V	VIDE)		204.76			
6	ELECTRIC	AL			236.12			
7				BENCHES AND GATION OF PLANT	37.00			
-	LumSum		37.00					
				TOTAL	1775.49	LACS		
				SAY	17.75	CRORE		

Sub Engineer
J.S.C.L, JABALPUR

Assistant Engineer J.S.C.L , JABALPUR

Executive Engineer J.S.C.L, JABALPUR

Superintendent Engineer J.S.C.L , JABALPUR

		ESTIMATE BASED ON SOR U	JADD	2012	& P.W.D	2017	
SI. No.	Item No.	ltem	Unit		Reuced Rate	QTY	Amount
		SOR ITEM		(INR)	(INR)		(INR)
		FLEXIBLE PAVMENT (ROAD)					
	UADD TEM NO. 2.1	Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable 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)	Girth from 300 mm to 600 mm each 136.00	each	136	122.4	5	612
	ii)	Girth beyond 600 mm to 900 mm	each	224	201.6	10	2016
		Girth beyond 900 mm to 1800 mm					
	iii)	Circle above 1000 reserve	each	465	418.5		
	iv)	Girth above 1800 mm	each	906	815.4		
	UADD TEM NO. 2.3	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					
	b)	Cement Concrete Grade M-15 & M- 20	cum	234	210.6	1000	210600
		Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 meters and as per relevant clauses of section-300.	cum	98	88.2	82859.5	7308207.9
	UADD 3.2 PG. NO. 21	Excavation for road way in ordinary rock including loading in a truck and carrying of excavated material to embankment site with in all lifts and leads upto 1000 meters and as per relevant clauses of section-300.	cum	142	127.8	33143.8	4706419.6
	UADD 3.3 PG. NO. 21	Excavation for roadway in hard rock (requiring blasting) by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and disposal of cut road with in all lifts and leads upto 1000 meters and as per relevant clauses of section-300.	cum	232	208.8	24000	5011200

PG. NO.	Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal within all lifts and lead upto 1000 meters, trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections and as per relevant clauses of section-300.	cum	502	451.8	25715	11618037
UADD 2.4 PG. NO.	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	cum	358	322.2	1080	347976
P.W.D 3.10 PG. NO. 20	Embankment Construction with Material Obtained from Borrow Pits Construction of embankment with approved material having CBR>7 obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-1, 300-2 and as per relevent clauses of section-300.	CUM	144		17475.9	2516529.6
P.W.D 3.11 PG. NO. 20	Construction of Embankment with Material Deposited from Roadway Cutting Construction of embankment with approved materials CBR>7 deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-1, 300-2 and as per relevent clauses of section-300.					
		CUM	65		49715.7	3231520.5

UADD 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					
ii)	for grading- II Material	cum	614	552.6	5670	3133242
P.W.D 4.12 PG.	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 roller to clause 410 to form a layer of sub-base/Base in accordance to Table No. 400-14, 400-15 and as per clause of section 407 of specifications.		92.	332.0		91992.12
i)	For 53 mm maximum size	cum	957		5670	5426190
ii)	For 37.5 mm maximum size	cum	949		5670	5380830
* *	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density and as per relevant clauses of section-400.	cum	951	855.9	2835	2426476.5
UADD 5.1	Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.75 kg/sqm using mechanical/Manual means and as per relevant clauses of section-502	sqm	26	23.4	37800	884520
UADD 5.2	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per relevant clauses of section-503.					
i)	@ 0.25 kg per sqm (normal bituminous surfaces)	sqm	9	8.1	37800	306180

UADD 5.6 *	Providing and laying Dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects and as per relevant clauses of section-507. (Only cement will be used as filler.					
ii)	for Grading I (80-100mm thickness)	cum	7161	6444.9	2835	18271291.5
UADD 5.8 *	Providing and laying Bituminous concrete with hot mix plant using crushed aggregates of specified grading,premixed with bituminous binder,transporting the hot mix to work site,laying with a mechanical paver finisher to the required grade,level and alignment,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects and as per relevant clauses of section- 509.(Only cement will be used as filler).					
i)	for Grading I (50-65 mm thickness) witl	cum	8223	7400.7	1512	11189858.4
UADD TEM NO. 8.4	Direction and Place Identification signs upto 0.9 sqm size board. (Providing and erecting direction and place identification retro-reflectorised sign asper IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75x75x6 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 x 45 x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification.	sqm	7983	7184.7	0.54	3879.738

UADD EM NO. 8.5	Direction and Place Identification signs with size more than 0.9 sqm size board. (Providing and erecting direction and place identification retro- reflectorised sign asper IRC :67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm 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.), 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing including painting of vertical post as per specification	sqm				
			13831	12447.9	10.8	134437.32
			13031	12447.5	10.0	134437.32
UADD EM NO. 8.10	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.		900	810	2520	2041200
		34	300	0_0		
UADD EM NO. 8.12	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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications.	each	292	262.8	8400	2207520
Έ	M NO.	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. 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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per	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. 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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications.	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. 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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications	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. 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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications	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. 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 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and confirming toIRC-79 and the drawings as per relevant clauses of section-800 of specifications

	Painting two coats after filling the					
HADD						
UADD	surface with synthetic enamel paint in					
TEM NO.	all shades on new plastered concrete					
8.6	surfaces and as per relevant clauses of					
	section-800 & I.R.C67 including cost of					
	paint etc. complete	sqm	44	39.6	6300	249480
UADD	Labour rate excluding the cost of materia					
TEM NO.						
8.6.1		sqm	17	15.3	6300	96390
	Kilo Metre Stone					
	Reinforced cement concrete M15grade					
P.W.D	kilometre stone of standard design as					
8.16	per IRC:8-1980, fixing in position					
	including painting and printing etc					
	(i) 5th kilometre stone (precast)	each	2791		0	0
	(ii) Ordinary Kilometer stone (Precast)	each	1681		13	21853
					TOTAL (A)	86726467.06
	ADD EXTRA AMOUNT FOR CURVATURE,	RAMP	ETC (1	0 % EXTRA)	TOTAL (B)	8672646.71
			_		TOTAL A+B	953.99

LAC CRORE

9.54

CONTRACTORS MAY COAT THERE RATES CONSIDERING THE BELOW MANDATORY MACHINERIES.

NO EXTRA RATE SHALL BE PAID IN THE BELOW ITEMS OF EMBAKEMENT, G.S.B, C.R.M, D.B.M, B.C, ETC. FOR

* NOTES:- FOR BITUMINOUS WORK

- (A) IT IS MANDATORY TO USE MIXING OF BITUMINOUS MATERIAL ONLY BATCH MIX PLANT OF APPROPRIATE CAPACITY OR AS SPECIIED IN ANNEXTURE FORMAT 1-5.
- (B) IT IS MANDATORY TO USE LAYING WITH A HYDROSTATIC PAVER FINISHER WITH SENSOR CONTROL TO THE REQUIRED GRADE, LEVEL AND ALIGNMENT, ROLLING WITH SMOOTH WHEELED, VIBRATORY AND TANDEM ROLLERS TO ACHIEVE THE DESIRED COMPACTION AS PER CLAUSE 507 OF SPECIFICATION.

* NOTES:- FOR CONSTRUCTION OF EMBANKMENT WORK

IT IS MANDATORY TO USE MOTOR GRADER FOR SPREADING AND LEVELLING AND VIBRATORY ROLLER, PNEMATIC TYRE ROLLER ETC. AS PER CLAUSE 305.3.6, COMPACTION AT O.M.C NOT MORE THAN 30CM LAYER.

* NOTES:- FOR GRANULAR SUB BASE

IT IS MANDATORY TO USE MATERIAL C.B.R. > 30 SPREADING AND UNIFORM LAYERS WITH MOTOR GRADER & COMPACTING AT O.M.C WITH VIBRATORY & STATIC ROLLER TO ACHIEVE REQUIRED DENSITY AS PER CLAUSE 305.3.6.

* NOTES:- FOR CRM

IT IS MANDATORY TO SPREADING AND MIXING WITH A MOTOR GRADER, WATERING AND COMPACTING WITH A VIBRATORY ROLLER AS PER CLAUSE 410

* NOTES FOR WMM

IT IS MANDATORY TO BRING PRE MIX MATERIAL WITH WATER AT O.M.C IN MECHANICAL MIX PLANT.

	ESTIMATE BASED ON SOR UADD 2012 & P.W.D 2017								
SI. No.	Item No.	Item	Unit	Rate	Reuced Rate	QTY	Amount		
		SOR ITEM		(INR)	(INR)		(INR)		
		DRAIN WORK							
	3.16	Excavation in all kinds of soil for drainage work by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	cum	99	89.1	6720	598752		
	13.6	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 .							
	a)	PCC Grade M15 with 40 mm maximum s	cum	3692	3322.8	588	1953806.4		
	e)	RCC Grade M20 with 20 mm maximum s	cum	4277	3849.3	0	0		
	f)	RCC Grade M25 with 20 mm maximum	cum	4300	3870	1764	6826680		
	13.26	Supplying, fitting and placing uncoated HYSD bar reinforcement in foundation complete as per drawing and technical specifications and as per relevant clauses of sections 1600.	kg	56.994	51.2946	210000	10771866		
	14.8	Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment, wing wall/return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical specifications and as per clause 2706 of specifications.	meter	131	117.9	1680 TOTAL	198072 20349176.4		

SAY 203.49 LAC

ESTIMATE BASED ON SOR UADD 2012 & P.W.D 2017 SI. Reduce Item No. Item Unit Rate **QTY Amount** No d Rate **SOR ITEM** (INR) (INR) **DIVIDER** Providing and laying Plain/Reinforced cement concrete (mixed in concrete mixture) in open foundation including form 13.6 work shuttering etc. complete as per drawing and technical specifications and as per relevant clauses of sections 1500, 1700 & 2100 with. PCC Grade M15 with 40 mm maximum size ocum 3692 3322.8 441 1465354.8 a) 1818794.25 e) RCC Grade M20 with 20 mm maximum size d cum 4277 3849.3 472.5 RCC Grade M25 with 20 mm maximum size d cum 4300 3870 756 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 4.1 compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400 ii) for grading- II Material cum 614 552.6 535.5 295917.3 Supplying, fitting and placing un-coated HYSD bar reinforcement in foundation 13.26 complete as per drawing and technical specifications and as per relevant clauses of sections 1600. 56.994 51.2946 kg 25200 1292623.92 TOTAL-4872690.27 SAY 48.73

LAC

		ESTIMATE BASED ON SOR UAI	DD 201	2 & P.V	V.D 2017		
SI. No.	Item No.	Item	Unit	Rate	Reduced Rate	QTY	Amount
		SOR ITEM		(INR)			(INR)
	S	TRUCTURE WORK (CULVERT & BRIDG	E)				
		Earth work in excavation of foundation of					
		structures as per drawing and technical					
		specification, including setting out,					
	13.1	construction of shoring and bracing, removal					
		of stumps and other deleterious matter,					
		dressing of sides and bottom and backfilling					
		with approved material etc. and as per					
		relevant clauses of section 300 & 2100 in					
	I	Soil					
	i)	upto 3 m depth	cum	136	122.4	1500	183600
	IV	Hard rock (blasting prohibited, with writen per	cum	577	519.3	700	363510
	13.6	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 .					
	a)	PCC Grade M15 with 40 mm maximum size of a	cum	3692	3322.8	184	611395.2
	f)	RCC Grade M25 with 20 mm maximum size of a	cum	4300	3870	1602	6199740
	iv)	Grade M30 PCC with 40 mm maximum size of a	cum	4339	3905.1	117.6	459239.76
	12.26	Supplying, fitting and placing un-coated HYSD					
	13.26	bar reinforcement in foundation complete as	.		= 4 00 40	0	1010111 76
		per drawing and technical specifications and as	kg	56.994	51.2946	25600	1313141.76
		Providing weep holes in Brick masonry/Plain/Reinforced concrete abutment,					
	14.8	wing wall/return wall with 100 mm dia AC					
		pipe, extending through the full width of the					
		structure with slope of 1V :20H towards	meter	131	117.9	80	9432
		·	1			TOTAL-	9140058.72

SAY 91.40 LAC

		ESTIMATE BASED ON SOR UADD 2012 & P.W.D 2017									
SI. No.	Item No.	Item	Unit	Rate	Reduced Rate	QTY	Amount				
		SOR ITEM		(INR)			(INR)				
		FOOTPATH (2.5M WIDE)									
		Construction of granular sub-base by providing coarse									
	UADD	graded material, spreading in uniform layers with on									
	4.1	prepared surface, mixing by mix in place method at									
	4.1	OMC, and compacting with vibratory roller to achieve									
		the desired density, complete in all respect and as per									
		relevant clauses of section-400									
	ii)	for grading- II Material	cum	614	552.6	630	348138				
		Providing and laying Plain/Reinforced cement									
		concrete (mixed in concrete mixture) in open									
	UADD	foundation including form work shuttering etc.									
	13.6	complete as per drawing and technical specifications									
		and as per relevant clauses of sections 1500, 1700 &									
		2100 with .									
		PCC Grade M15 with 40 mm maximum size of				420					
	a)	aggregate	cum	3692	3322.8		1395576				
		KERB									
	a)	PCC Grade M15 with 40 mm maximum size of aggregate		3692	3322.8	420	1395576				
	c)	PCC Grade M25 with 40 mm maximum size of aggregate	cum	4282	3853.8	346.5	1335341.7				
		Providing and applying tack coat with bitumen									
	UADD	emulsion using emulsion pressure distributor on the									
	5.2	prepared bituminous/granular surface cleaned with									
	0.1	mechanical broom and as per relevant clauses of									
		section-503.	sqm	13	11.7	10500	122850				
		Providing and laying 12 mm thick mastic asphalt									
		wearing course on top of deck slab excluding prime									
		coat with paving grade bitumen meeting the									
		requirements given in table 500-29, prepared by using									
		mastic cooker and laid to required level and slope after									
		cleaning the surface, including providing antiskid									
	UADD	surface with bitumen precoated fine grained hard									
	15.5	stone chipping of 9.5 mm nominal size at the rate of									
		0.005cum per 10 sqm and at an approximate spacing of									
		10 cm center to center in both directions, pressed into									
		surface when the temperature of surfaces not less than									
		100 deg. C, protruding 1 mm to 4 mm over mastic									
		surface, all complete as per clause 515 and 2702 of									
		specifications									
			sqm	258	232.2	10500	2438100				
		Providing and Laying 5 layer Acrylic/Synthetic Flooring									
	*	for Jogging Track/Footpath (5 Layer Synthetic Courts -									
		All weather synthetic surface applicable of one filler	sqm	1280		10500	13440000				
	NON	coat, two resurfacer coat, two pigmented (Synthetic				, , , ,					
	SOR	paint) coats alongwith line marking as per details ext.									
		complete.)									
						TOTAL	20475581.7				
						SAY	204.76				

NOTES:-

*FOR SYNTHETIC FLOORING:- 5 LAYERS ACRYLIC / SYNTHETIC FLOORING NEED TO TAKE CARE THAT RAIN WATER DOESN'T STAGNATE ON THE SURFACE.

ESTIMATE BASED ON SOR UADD 2012 & P.W.D 2017

ELECTRICAL ESTIMATE

	ELECTRICAL ESTIMATE										
Sr. No	Item Code	Description / Specification	Quantity	Unit	Rate	New rate as per SOR	Amount				
1	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.									
2	UADD SOR 13.2.2	R.S. Joist 175 x 90 - 19.3 kg per meter	650.00	Meters	1,029.00	926.10	6,01,965.00				
3	UADD SOR 13.2.6	H-Beam 152x152mm , Std weight 37.1 kg per meter	1,285.00	Meters	1,977.00	1,779.30	22,86,400.50				
4	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.)	75.00	Each	2,163.00	1,946.70	1,46,002.50				
5	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.)	97.00	Each	2,563.00	2,306.70	2,23,749.90				
6	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.	5,500.00	Kg	54.00	48.60	2,67,300.00				
14	UADD SOR 13.79	Supplying and erection of 11kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required.	88.00	Set	375.00	337.50	29,700.00				
15	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.	55.00	Set	1,089.00	980.10	53,905.50				

16	UADD SOR 13.81	Supplying and erection of 33kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required.		Set	1,012.00	910.80	50,094.00
17	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
18	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.					
19	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.	815.00	Sqm	21.00	18.90	15,403.50
20	UADD SOR 13.86.3	Primer cost with aluminum paint, brushing complete with material and labour including preparation of surface.	815.00	Sqm	28.00	25.20	20,538.00
21	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.	140.00	Each	219.00	197.10	27,594.00
22	UADD SOR 19.183	Cable connector 35mm	178.00	Each	90.00	81.00	14,418.00
23	MP PWD 42.63	Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure / poles.	150.00	Each	148.00	133.20	19,980.00
24	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 —					
25	MP PWD 42.85.2	(ii) Single Core cable(Insulated neutral messenger)					
26	MP PWD 42.85.2.3	(c) 3x50 Sq.mm , 1x16(St.Light), 1x35(Insulated neutral messenger)	300.00	Meters	288.00	259.20	77,760.00

27		(d) 3x70 Sq.mm , 1x16(St.Light), 1x35(Insulated neutral messenger)	300.00	Meters	390.00	351.00	1,05,300.00
28		(e) 3x95 Sq.mm, 1x16(St.Light), 1x50(Insulated neutral messenger)	1,800.00	Meters	584.00	525.60	9,46,080.00
29	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
30	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.	90.00	Each	371.00	333.90	30,051.00
34	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.					
35	1	11 kV	22.00	Set	7,099.00	6,389.10	1,40,560.20
	2	33 kV	30.00	Set	15,416.00	13,874.40	4,16,232.00
36	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.)					
37	1	11kV	15.00	Set	4,700.00	4,230.00	63,450.00
	2	33kV	20.00	Set	11,531.00	10,377.90	2,07,558.00
38	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	0	4,284.00	3,855.60	96,390.00

	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
39		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					
40	UADD SOR 15.7	(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	2.00	Each	17,036.00	15,332.40	30,664.80
41		(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	2 00	Each	28,393.00	25,553.70	51,107.40
42	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)					
43	UADD SOR 13.5.4	0.075 sq.inch / 48 sq.mm Alloy Aluminum Conductor	9.00	KM	59,138.00	53,224.20	4,79,017.80
44	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)					
45	MP PWD 42.5.4	AAAC 0.1 sq inch (100 Sq.mm Al. EQ.) - (Dog)	9.00	KM	77,891.00	70,101.90	6,30,917.10

46	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
47	UADD SOR 14.8	Supplying and fixing cramping type Alum. lugs as per I.S.S.Specification suitable for following size of cable with Alu. /Copper solid/stranded conductor evently 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-					
48	UADD SOR 14.8.2	25 Sq.mm	48.00	Each	7.00	6.30	302.40
49	UADD SOR 14.8.3	35 Sq.mm	30.00	Each	9.00	8.10	243.00
50	UADD SOR 14.8.4	50 Sq.mm	30.00	Each	14.00	12.60	378.00
51	UADD SOR 14.8.6	95 Sq.mm	24.00	Each	24.00	21.60	518.40
52	UADD SOR 14.8.8	150 Sq.mm.	24.00	Each	44.00	39.60	950.40
53	UADD SOR 14.8.10	240 Sq.mm.	24.00	Each	93.00	83.70	2,008.80
54	UADD SOR 14.8.11	300 Sq.mm.	24.00	Each	129.00	116.10	2,786.40
55	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)	0.30	КМ	9,176.00	8,258.40	2,477.52

56	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
57	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
58	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)		Each	1,778.00	1,600.20	32,004.00
59		Supplying and erecting earth pit of					
60	UADD SOR 11.40	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					
61	UADD SOR 11.40.2	with 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound	45.00	Each	10,800.00	9,720.00	4,37,400.00

62	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.	2,500.00	Meters	66.00	59.40	1,48,500.00
63	UADD SOR 11.37	Providing and laying earth continuity conductor including fixing with					
64	UADD SOR 11.37 (B)	G.I. Or Steel Earth Continuity Conductor :-					
65	UADD SOR 11.37 (B) 2	10 Sq mm.	1,000.00	Meters	9.00	8.10	8,100.00
67		Dismental / Shifting Work					
68	UADD SOR 13.57	Dismantling poles / street light standards / struts embedded in cement concrete foundation etc. as required.	89.00	Each	609.00	548.10	48,780.90
69	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.		Meters	4.00	3.60	23,400.00
70	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.	8.00	Each	8,191.00	7,371.90	58,975.20
71		Cable Laying					
72	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					
73	UADD SOR 14.1.2	ARMOURED 2 Core					
	UADD SOR 14.1.1.1	2.5 Sq.mm.(Heavy Duty)	240.00	Meters	47.00	42.30	10,152.00
74	UADD SOR 14.1.2.4	10 Sq.mm.(XLPE)	300.00	Meters	154.00	138.60	41,580.00
75	UADD SOR 14.1.2.5	16 Sq.mm.(XLPE)	200.00	Meters	180.00	162.00	32,400.00

	UADD						
76	SOR	ARMOURED 4 CORE					
	14.1.8						
	UADD						
77	SOR	10 Sq.mm.(XLPE)	300.00	Meters	183.00	164.70	49,410.00
	14.1.8.2	, ,					,
	UADD						
78	SOR	16 Sq.mm.(XLPE)	1,650.00	Meters	229.00	206.10	3,40,065.00
	14.1.8.3	, ,	,				, ,
	UADD						
79	SOR	25 Sq.mm(XLPE)	850.00	Meters	281.00	252.90	2,14,965.00
	14.1.8.4						
	UADD						
80	SOR	35 Sq.mm(XLPE)	100.00	Meters	358.00	322.20	32,220.00
	14.1.8.5						
82	UADD SOR 14.10.17	Laying and fixing of one number PVC insulated and PVC sheathed aluminium conductor cable of 1.1kV grade of size not exceeding 25 Sq.mm on surface etc. as required.		Meters	35.00	31.50	15,750.00
83	UADD SOR 14.10.18	Laying and fixing of one number PVC insulated and PVC sheathed aluminium conductor cable of 1.1kV grade of size exceeding 25 Sq.mm but not exceeding 120 Sq.mm on surface etc. as required.	500.00	Meters	80.00	72.00	36,000.00
84	MP PWD 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 MARKED as required					
85	MP PWD 41.3.1	3 CORE XLPE CABLE 11 KV GRADE					
86	MP PWD	120 Sq.mm.	500.00	Meters	1,377.00	1,239.30	6,19,650.00
	41.3.1.4 MP PWD						
87	41.3.1.5	150 Sq.mm.	500.00	Meters	1,537.00	1,383.30	6,91,650.00
88	MPKVVNL M- 0402027	11 KV Under-Ground XLPE armoured Cable 3X240 Sq.mm.	0.10	Kilometer	8,23,085.00	8,23,085.00	82,308.50
89	MPKVVNL M- 0402026	11 KV Under-Ground XLPE armoured Cable 3X300 Sq.mm.	0.10	Kilometer	9,48,609.00	9,48,609.00	94,860.90
90	MPKVVNL M- 0404112	Outdoor heat shrinkable cable end jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq mm		Set	5,235.00	5,235.00	10,470.00
91	MPKVVNL M- 0404113	Outdoor heat shrinkable cable end jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq mm		Set	5,365.00	5,365.00	10,730.00

92	MP PWD 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.					
93	MP PWD 41.10.1	Heat shrinkable joint,kit 11 kV XLPE, 3 Core					
94	MP PWD 41.10.1.1	Heat shr.jointg. kit 11 kV XLPE cable O.D. termination					
95	41.10.1.1	c. 3 x 120-185 sq.mm.	4.00	Each	13,078.00	11,770.20	47,080.80
96	M-	Outdoor heat shrinkable cable end jointing kit with lugs for 11 kV grade XLPE cable for 3 core 240 sq mm	2.00	Set	5,235.00	5,235.00	10,470.00
97	M-	Outdoor heat shrinkable cable end jointing kit with lugs for 11 kV grade XLPE cable for 3 core 300 sq mm	16.00	Set	5,365.00	5,365.00	85,840.00
98	MP PWD 41.12	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 / overhead service line / for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismentalling & other finshed masonary Item complete.					
99	MP PWD 41.12.1	For 'B' Class pipe ISI Marked (IS-1161-68)					
100	MP PWD 41.12.1.9	100.00mm	800.00	Meters	1,070.00	963.00	7,70,400.00
101	MP PWD 41.12.1.10	150.00mm	500.00	Meters	1,753.00	1,577.70	7,88,850.00

102	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.					
103	UADD SOR 17.4.1	50.00mm outside dia.	890.00	Meters	207.00	186.30	1,65,807.00
104	UADD SOR 17.4.2	175.00mm outside dia.	500.00	Meters	432.00	388.80	1,94,400.00
105	MP PWD 41.37	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.	500.00	Meters	52.00	46.80	23,400.00
106	MP PWD 42.69	Supply & fixing fencing of chain link mesh 100 x 100 mm, 12 SWG GI wire for for D.P. structure electric substation 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 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.	30.00	Sq.Mtrs	1,100.00	990.00	29,700.00

Excavation of the trenches in Hard Rock not exceeding 1.5 meter in width Rock not exceeding 1.5 meter in width and fift upto 1.5 meter including getting out the excavated soil and getting out the excavated soil and getting out the excavated soil and disposal of surplus excavated soil and directed within the lead of 50 meter (without blasting) 108								
Alum. lugs as per LSS.Specification suitable for following size of cable with Alu. / Copper solid/stranded conductor evently 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	107	SOR	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	50.00	Cu.Mtrs	348.00	313.20	15,660.00
100 SOR	108		Alum. lugs as per I.S.S.Specification suitable for following size of cable with Alu. / Copper solid/stranded conductor evently cramped with high / pressure tool and connected to switch gear / Bus / M.C.C.B. / M.C.B. etc. as required complete.For					
110 SOR 14.8.2 25 Sq.mm 250.00 Each 7.00 6.30 1,575.00	109	SOR	6mm to 16 Sq.mm	200.00	Each	5.00	4.50	900.00
111 SOR 14.8.3 35 Sq.mm 50.00 Each 9.00 8.10 405.00	110	SOR	25 Sq.mm	250.00	Each	7.00	6.30	1,575.00
Street light	111	SOR	35 Sq.mm	50.00	Each	9.00	8.10	405.00
113 SOR 6.2.1 (V-2) Cum 4,152.00 3,736.80 1,49,472.00	112	SOR	bricks in bulls patent trench kiln, crushing strength not less than 25kg/sqcm and water absorption not more than 20% in foundation and					
CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPINGSupplying and drawing single 4.3 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 3 3 X 1.5 sq mm 1850 Meter 72.00 64.80 119880 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:- 8.5.1 SINGLE POLE (SP) 2 6 Amp to 32 Amp Rating 179 Each 166.00 149.40 26742.6 8.5.6 FOUR POLE(FP) 4 50 Amp to 63 Amp Rating 4 Each 1593.00 6372	113	SOR	` ·	40.00	Cum	4,152.00	3,736.80	1,49,472.00
3 3 X 1.5 sq mm 1850 Meter 72.00 64.80 119880 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:- 8.5.1 SINGLE POLE (SP) 2 6 Amp to 32 Amp Rating 179 Each 166.00 149.40 26742.6 8.5.6 FOUR POLE(FP) 4 50 Amp to 63 Amp Rating 4 Each 1593.00 6372			CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPINGSupplying 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.					
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 :- 8.5.1 SINGLE POLE (SP) 2 6 Amp to 32 Amp Rating 179 Each 166.00 149.40 26742.6 8.5.6 FOUR POLE(FP) 4 50 Amp to 63 Amp Rating 4 Each 1593.00 6372		4.3.1	1.5 Sq mm cable					
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 :- 8.5.1 SINGLE POLE (SP) Each 166.00 149.40 26742.6 8.5.6 FOUR POLE(FP) Each 1593.00 6372		3	_		Meter	72.00	64.80	119880
8.5.1 SINGLE POLE (SP) 2 6 Amp to 32 Amp Rating 179 Each 166.00 149.40 26742.6 8.5.6 FOUR POLE(FP) 50 Amp to 63 Amp Rating 4 Each 1593.00 6372		8.5	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 :					
8.5.6 FOUR POLE(FP) Each 1593.00 6372		8.5.1	SINGLE POLE (SP)					
8.5.6 FOUR POLE(FP) Each 1593.00 6372				179	Each	166.00	149.40	26742.6
		8.5.6						
16.15.1 Change of timer renowned make. 2 Each 3312.00 6624		4		4	Each		1593.00	6372
		16.15.1	Change of timer renowned make.	2	Each		3312.00	6624

	MCCB with Breaking Capacity 25 KA at			I		
8.1	415 V					
1	Current Rating -25 to100 Amps & 70% -	2	Each		4445 10	
1	100% adjustable	2	Each		4445.10	8890.2
	Supplying and fixing cramping type Alum.					
	lugs as per I.S.S.Specification suitable for					
	following size of cable with Alu. /Copper					
14.8	solid/stranded conductor evently 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-					
1	6 - 16 Sq.mm	385	Each	5.00	4.50	1732.5
1	Supplying, fixing,testing & commissioning	303	Ducii	3.00	4.50	1732.3
	wall / floor mounted LT Panel primer					
	coated with two coat of enamel paint &					
	provided with required gasket for dust/					
	vermin proof with degree of protection IP42					
	suitable for 415V 3 phase ,50 Hz ,4 wire					
	system fabricated out of CRCA sheet upto 2					
	mm thick(1.6 mm for doors) with frame					
	work of angle iron/ channel/ bolted type					
	construction duly compartmentalised for					
	incomer,bus section, outgoings,cable alleys					
9.15	& CT,PT Ampere Meter ,Volt Meter ,	295.00	KG	116.00	104.40	
	selector switches,Frequency Meter ,phase					
	indicating lamps, energy Meter complete					
	including cost of busbar					
	supports,detachable cable gland plates,2					
	earthing terminals, internal wiring & fixing					
	1 11					
	MCCBs,panel mounted Changeover					
	switch/SFUs, etc. as required but excluding					
	cost of busbar strips, Ampere Meter, Volt					
	Meter, Selector switch as per approved					
	design & specification					30798
	Providing and fixing earthing arrangement					
	with 16mm dia 2.5 meter					
	long galvanized iron or steel rod electrode					
	including packing of					
11.34	charcoal powder and salt as per	94	Each	219.00	600.30	
	specification watering pipe 19mm					
	dia G.I. Connection etc. complete with					
	refilling the pit as required,					
	but excluding the excavation of earth pit.					56428.2
	Earthing with G.I. Earth plate 600mm X					
	600mm X 6mm thick including accessories					
	and providing masonary encloser in cement					
11.3	mortor, cover plate having locking		Each	2540.00	2286.00	
	arrangment on the top and G.I. watering					
	pipe 20mm dia 2.7 meter long etc. (but					
	without charcoal or coke and salt)					4572
	complete as required. Add Extra for using salt and charcoal / coke			 		43/2
	for G.I. Plate or Copper plate earth					
11.5	electrode as required including excavation		Each	520.00	468.00	
	& refilling.					936
L	or remains.			1		

PWD SOR 31.29.6	Supplying & fixing street light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy >90 lm/W. luminiare having color temp 4000 K to 6500 K & 50000 burning hrs life with minimum @L 70, The color rendering index of LED light should be more than 70 LUminiare comprises of driver,PF 0.95 & surge protection 3 KV Housing made of pressure die cast aluminium with heat resistent flat glass/Lens type,IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab . Manufacturer mandatory i/c 50 mm dia. GI pipe bracket up to 2.0 mtr. long to required angle/shape connection lead ,testing etc. to complete the job.02 years Guarantee certificate from manufacturer. 150 W	182	Each	20049.00	18044.10	3284026.2
PWD 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)					3204020.2
PWD 42.93.	9 mtrs. Height, 155 X 70mm A/F, 260x260x16mm base plate, 4 nos. X 24 x 750mm bolt	91	Each	24908.00	22417.20	2039965.2
PWD 42.94	Providing and fixing of sword canopy type single arm GI bracket upto 2 Mtr. Long for 70mm A/F top octagonal pole	10	Each	3478.00	3130.20	31302
	Providing and fixing of sword canopy type double arm GI bracket upto 2 Mtr. Long for 70mm A/F top octagonal pole		Each	5645.00	5080.50	462325.5
Uadd 10.33.10	Earth work in rough excavation in all kinds of soil rate from Building ISSR	715	Cum	203.00	182.70	130630.5
Uadd 10.33.15	Cement concrete grade M-20 (Nominal Mix) with 20mm maximum size of stone aggregate (rate from Building ISSR)	715	Cum	4594.00	4134.60	2956239
mppkvvcl	INSTALLATION OF 11/04KV 200 KVA BIS LEVEL -III (BEE RATING -5 STAR) RATED DTR (ASSUMING 25 YEARS OF LIFE)	2	Each		329818.1	659636.2

				SAY	236.12	LA
	Tota				2,36,12,044.02	
13	Preparation to drawing of exiting pole mounted substation up to 500 KVA 11 KV/0.4 KV rating, getting the drawing apropover from electrical inspectorate, getting the inspection of this substation installation done by Competent Authority of Electrical Inspectorate getting this installation of sub Station approved & acquiring provisional permission for charging & submitting the approved drawing and the provisional permission for charging to competent authority of JMC and getting this substation charged from MPSEB.	2	Each	16200	32400	