

OFFICE OF THE MUNICIPAL COUNCIL, SIKAR (RAJ.)

GENERAL ABSTRACT

Name of work : CONSTRUCTION OF ROAD (SIKAR-SANWALI LINK RAOD
OPPOSITE STADIUM TO INDUSRIAL AREA AT DEVIPURA BEED, SIKAR

BSR:- RUIDP SOR 2013.

S. No.	Particulars	Amount
1	2	3
1	PART A ROAD WORK	28908821.1
2	PART B PROTECTION WALL WORK	31438.4
3	PART C ROAD FURNITURE	5430710
4	PART D DRAIN WORK AND FOOTPATH WORK	26327268
5	PART E HORTICULTURE	2264000
6	PART F STREET LIGHT WORK	15244334
	GRAND TOTAL	78206571.5


Assistant Engineer
Municipal Council, Sikar


Executive engineer
Municipal Council, Sikar
Executive Engineer
Municipal Council, SIKAR

OFFICE OF THE MUNICIPAL COUNCIL, SIKAR (RAJ.)
ESTIMATE

**Name of work : CONSTRUCTION OF ROAD (SIKAR-SANWALI LINK ROAD OPPOSITE STADIUM TO
INDUSRIAL AREA AT DEVIPURA BEED, SIKAR**

BSR- RIUDP SOR 2013

S. No.	ISOR REF. NO	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
	PART A	ROAD WORK								
1	5.1.2.2	Topographic Survey by taking longitudinal sections at every 10m interval, cross sections at every 5m interval on either side of centerline of Road including supply of detailed drawings in appropriate scale & size in soft copy & Hard copy complete all respect as per direction of Engineer and detailed alignment plans with covering all features in a width from 10mts. Upto 20 mtrs.	3	2.4			7.2	4000	KM	28800
2		Cutting of trees, including cutting of trunks, branches and removal of stumps, roots, stacking of serviceable material with all lifts and up to a load of 1000 mtrs and earth filling in the depression/pit to required compaction as per MoRT&H specification, clause 201. (Measurement of Girth to be done at height of 1 m above ground level)								
A	2.1.1	Girth from 300 mm to 600 mm	L.S.				200.00	938	EACH	187600
B	2.1.2	Girth from 600 mm to 900 mm	L.S.				100.00	1180	EACH	118000
3	2.3.1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to a lead of 50 metres from road boundary including removal and disposal of top organic soil not exceeding 150 mm in thickness as directed by Engineer.	1.00	2400.00	17.25		4.14	51200	hectare	211968
		In area of light jungle								
4		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 of 50 metres as directed by Engineer.								
		Dismantling Brick / Tile work								
A	2.4.4.2	Dismantling Brick / Tile work	L.S.	50.00			50.00	249	CUM	12450
B	2.4.5.2	Rubble stone masonry in cement mortar.	L.S.	50.00			50.00	249	CUM	12450

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S. No.	ISOR REF. NO.	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
5	4.1	Dressing of earth work in surface excavation including cutting and filling upto 30cm depth including disposal of excavated earth upto 50m and lift upto 1.5 m.	1.00	500.00	17.25		8625.00	44	SQM	379500
6	4.2.1	Earth work in excavation for roadway, including trimming bottom and side slopes in accordance with requirement of line, grades and cross sections, including disposal of surplus material with all lift and lead upto 1000 metre as per MoRT&H specification clause 301. In all type of soil	1.00	500.00	17.25	0.30	2587.50	171	CUM	442462.5
7	4.4	Construction of embankment with approved material obtained from borrow pit with all lifts and leads, transporting to site, spreading, grading to required slope and compacting by vibratory roller 8-10 tonne to meet requirement of table 300-2 including cost of compensation for earth taken from private land complete as per MoRT&H specification clause 305. (Lead taken upto 5 km)	1.00	1500.00	17.25	0.50	12937.50	396	CUM	2535750
8	4.5	Construction of embankment with approved materials deposited at site available from roadway cutting and excavation from drain and foundation of other structures, graded and compacting by vibratory roller 8-10 tonne to meet requirement of table 300-2 as per MoRT&H specification clause 305.	1.00	500.00	17.25	0.30	2587.50	66	CUM	170775
9	7.3.2	Providing, laying and spreading of granular sub-base by providing coarse graded Material (Table 400-2), spreading in uniform layers with motor grader on prepared surface, mixing BY MIX IN PLACE METHOD with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRT&H specification clause - 401 including all material, labour, machinery, lighting, guarding and maintenance of diversion Grading - II Material								
		FOR CARRIAGE WAY	1.00	2400.00	7.00	0.20	3360.00	928	CUM	3118080
		FOR BOTH SIDE CYCLE WAY	2.00	2400.00	2.00	0.15	1440.00	928	CUM	1336320
10	7.6	Providing, laying, spreading (with paver finisher only) and compacting wet mix macadam (WMM) base course comprising of graded stone aggregate and granular material conforming to MoRT&H specifications (Table 400-II) in layers of equal compacted thickness each consolidated, including pre-mixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tippers to site, laying in uniform layers in base course on a well prepared sub-base/ base course and compacting with power vibratory-roller to achieve the desired density complete as per MoRT&H specification clause - 406 including all material, labour, machinery, lighting, guarding and maintenance of diversion.								
		FOR CARRIAGE WAY	1.00	2400.00	7.00	0.20	3360.00	1300	CUM	4368000

5. No.	ISOR REF. NO	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
		FOR BOTH SIDE CYCLE WAY	2.00	2400.00	2.00	0.15	1440.00	1300	CUM	1872000
		Providing and applying primer coat over prepared surface of granular base with bitumen emulsion as per IS : 8887 and approved quality @ 0.6 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface including removing of binding material and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.								
11	8.1+8.2	Extra for additional bitumen emulsion used in above item for every 1 kg per 10 sqm								
		FOR CARRIAGE WAY	1.00	2400.00	7.00		16800.00	31.5	SQM	529200
		FOR BOTH SIDE CYCLE WAY	2.00	2400.00	2.00		9600.00	31.5	SQM	302400
		Providing and applying tack coat on the prepared surface with bitumen emulsion as per IS: 8887 and approved quality @ 0.2 kg/sqm with the help of spray set fitted on bitumen Container (boiler) after cleaning the surface with brooms or soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment complete as per clause 502 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.								
12	8.3+8.4	Extra for additional bitumen emulsion used in above item for every 1 kg per 10 sqm								
		FOR CARRIAGE WAY	1.00	2400.00	7.00		16800.00	14	sqm	235200
		FOR BOTH SIDE CYCLE WAY	2.00	2400.00	2.00		9600.00	14	sqm	134400
		Providing and laying bituminous macadam in 50/75 mm compacted thickness on prepared surface with specified graded crushed stone aggregates as per Table 500-4, Grading-II for base/ binding course, loading of aggregate with F.E. loader, heating and mixing of stone aggregate and bitumen in computerised hot mix plant, transported to site by tippers to paver, laid over a previously prepared surface with paver finisher fitted with electronic sensing device to the required grade, level and alignment and rolling with power roller and vibratory compactor as per clauses 501.6 and 501.7 to achieve the desired compactness complete as per clause 504 of MoRT&H specification and including all material, labour, machinery, lighting, guarding and maintenance of diversion but excluding cost of primer/ tack coat With Bitumen VG-grade 30 @ 3.4% (percentage by weight of total mix)	1.00	2400.00	7.00	0.075	1260.00	5430	CUM	6841800
13	8.5.2	FOR CARRIAGE WAY								

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1	2	3	4	5	6	7	8	9	10	11
14	8.12.1	Providing and laying open graded premix carpet 20mm thick (compacted), on prepared surface in a single course as wearing course, composed of specified graded crushed stone aggregate as per Table 500-23, premixed with bituminous binder @ 14.60 kg/10sqm (including cost of anti-stripping compound wherever required), including loading of material with F.E. loader, hot mixing of stone aggregate and bitumen in computerised hot mix plant, transporting the mixed material by tippers to paver and laying with power finisher fitted with electronic sensor control to the required level and grade, compacting smooth wheeled roller 8-10 tonne capacity and finishing to required level to achieve the desired density as per clause 511 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion but excluding cost of tack coat/ seal coat With Bitumen VG grade 30	1.00	2400.00	7.00		16800.00	106	SQM	1780800
		FOR CARRIAGE WAY	2.00	2400.00	2.00		9600.00	106	SQM	1017600
15	8.14.1	Providing and applying premixed seal coat Type "B" comprising of thin application of fine aggregate 0.06 cum/ 10 sqm premix with bitumen binder @ 6.8 kg/ 10 Sqm (including cost of anti-stripping compound wherever required) laying with power finisher with electronic sensor control and rolling with power roller 8-10 tonne complete as per clause 513 of MoRT&H specification including all material, labour, machinery, lighting, guarding and maintenance of diversion With Bitumen VG-grade 30								
		FOR CARRIAGE WAY	1.00	2400.00	7.00		16800.00	43.5	SQM	730800
		FOR BOTH SIDE CYCLE WAY	2.00	2400.00	2.00		9600.00	43.5	SQM	417600
16	11.1.1	Plain cement concrete 1:3:6 mix with crushed stone aggregate mechanically mixed, placed in foundation and compacted by vibration including curing as per clause 1000 & 1700 of MoRT&H specification including all material, labour form work, machinery Using stone aggregate 40 mm nominal size	4.00	18.00	1.20	0.15	12.96	3360	CUM	43545.6
17	12.2.15	Providing and Laying Reinforced cement concrete pipe No4/ prestressed concrete pipe for culverts including jointing ends and fixing collar with cement mortar 1:2 complete as per clause 1000 & 2900 of MoRT&H specification including all material, labour form work, machinery 1200 mm internal diameter	4.00	18.00			72.00	9830	MTR.	707760

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1	2	3	4	5	6	7	8	9	10	11
		Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98-1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum	2.00	20.00			40.00	2930	MTR.	117200
18	11.3.3	450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings, Triple Row for three utility services.								
19	22.1.1	Centring and shuttering upto two stories or height upto 7.5 metre above plinth level including strutting, propping etc. and removal of form for foundations, footings, bases of columns, etc. for mass concrete.	80.00	4.00		2.00	640.00	167	SQM	106880
20	22.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	80.00	4.00	0.25	2.00	160.00	4190	CUM	670460
21	29.25.2	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	15				2000.00	88.5	P KG	177000
22	12.6.2	Providing and fixing of reinforced Ferro-Cement drain covers designed for 'Aa' class loading duly marked on cover with adequate steel reinforcement having thickness 75mm to 150mm and corrosive bitumen painted M.S. plate, Rim and M.S. lifting hooks, Admixtures like plasticizer, bond improving compound, shrinkage, resistance compound, abrasion resistant complete as per approved design etc. Standard Size 1000x800mm for span 451 to 700mm	80.00	4.00	0.80		256.00	1180	MTR.	302080
PART B			PROTECTION WALL WORK							
			TOTAL PART A							
23	4.9.1.1	Earth work in excavation in foundation, trenches etc. including dressing of sides and ramming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level in all types soils/ saturated soil such as morum, sand, sandy silt, clay, black cotton soil, kankar, etc. Depth upto 1.5 m	4.00	2.00	0.50	0.40	1.60	169	CUM	270.4
			28908821.1							


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1	2	3	4	5	6	7	8	9	10	11
24	11.1.1	Plain cement concrete 1:3:6 mix with crushed stone aggregate mechanically mixed, placed in foundation and compacted by vibration including curing as per clause 1000 & 1700 of MoRT&H specification including all material, labour form work, machinery. Using stone aggregate 40 mm nominal size	4.00	2.00	0.50	0.15	0.60	3360	CUM	2016
25	14.2.1	Random rubble masonry work in cement mortar with mechanical mixer in substructure/ super structure at all levels complete as per clause 1400 and 2200 of MoRT&H specification including all material, labour, scaffolding etc but excluding pointing and plastering in cement mortar 1:3 (1 cement : 3 coarse sand)	4.00	2.00	0.50	2.00	8.00	3420	CUM	27360
26	14.4	Pointing of any design with cement mortar (1:3) on Brick work in substructure/ super structure at any height complete as per clause 1312 of MoRT&H specification including all material, labour, scaffolding etc.	8.00	2.00		2.00	32.00	56	SQM	1792
TOTAL PART B										31438.4
ROAD FURNITURE										
27	10.8	Providing and laying marking of center line and stop line etc with hot thermoplastic compound 2.5 mm thick on road/ plain surface, including reflectorising glass beads @ 250 gms per sqm area with special applicator machine, as per IRC.35 including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control involved. The finished surface to be level, uniform and free from streaks and holes as per clause 803 of MoRT&H Specification including all material, labour, machinery, lighting, guarding and maintenance of diversion.	4.00	2400.00	0.15		1440.00	803	SQM	1156320
28		Providing and fixing of retro- reflectorised cautionary, mandatory and informative 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 3 metre long and size 75 mm x 75 mm x 6 mm 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 all material, labour.								
A	10.9.3	60 cm circular	50.00				50.00	3660	EACH	183000
B	10.9.5	60 cm x 45 cm rectangular	40.00				40.00	3570	EACH	142800


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1	2	3	4	5	6	7	8	9	10	11
29	10.10	Providing and erecting direction and place identification retroreflectors as per IRC:67 made of encapsulated lens type reflective sheeting vide clause 801.3, fixed over aluminum sheeting, 2 mm thick framed to angle iron 40x40x5mm with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm 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 all material, labour.	10.00	1.00		0.90	9.00	9010	SQM	81090
30	10.18	Providing and fixing Tubular Steel Railing on Precast RCC posts, 1.2 m high above ground level Providing, fencing and erecting 50 mm dia G.I pipe railing in 3 rows on precast M20 grade RCC vertical posts 1.8 metres high (1.2 m above G.L) with 3 holes 50 mm dia for pipe, fixed 2 metres centre to, complete as per approved drawing including all material, labour.	1.00	2400.00			2400.00	1540	MTR.	3696000
31	10.19	Providing and fixing CAT's eye made of aluminium alloy size 75x100x22mm having 21 bicorvex lenses embedded in circular disk of A5 plastic on each side on road surface complete including all material, labour, diversion.	500.00				500.00	195	EACH	97500
32	10.22	Providing and fixing "SWISS" type bollard 134cm height made out of 1.25mm thick M.S. sheet welded in conical section having upper dia 15cm and lower dia 70cm with another attachment of mandatory 7mm thick plate and fixed with the help of 7cm long, 30cm dia chrome plated M5 tube, this part is fixed on the body with another attachment of a cap 30x7cm, whole body is painted in black stove enamel and mandatory plate in azure blue with one compulsory keep left arrow with 10mm border reflective strip each of 7.5cm on both cantilever in all respect including all material, labour, diversion.	50.00				50.00	1480	EACH	74000
		PART D								
		DRAIN WORK AND FOOTPATH WORK								
		Earth work in excavation in foundation, trenches etc. including dressing of sides and raiming of bottoms, including getting out the excavated material, refilling after laying pipe/ foundation and disposal of surplus excavated material at a lead upto 50m suitable site as per direction of Engineer for following depths, below natural ground / Road top level in all types soils/ saturated soil such as morum, sand, sandy silt, clay, black cotton soil, kankar, etc.Depth upto 1.5 m.	2.00	1000.00	1.50	0.50	1500.00	169	CUM	253500
34	11.1.1	Plain cement concrete 1:3:6 mix with crushed stone aggregate mechanically mixed, placed in foundation and compacted by vibration including curing as per clause 1000 & 1700 of MORT&H specification including all material, labour form work, machinery Using stone aggregate 40 mm nominal size	2.00	2400.00	1.50	0.125	900.00	3360	CUM	3024000
		TOTAL PART C								5430710


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S. No.	ISOR REF. NO	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
35	14.2.1	Random rubble masonry work in cement mortar with mechanical mixer in substructure/ super structure at all levels complete as per clause 1400 and 2200 of MoRT&H specification including all material, labour, scaffolding etc but excluding pointing and plastering in cement mortar 1:3 (1 cement : 3 coarse sand) Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete. 40mm thick with 20mm nominal size stone aggregate.	2.00	2400.00	1.00	0.60	2880.00	3420	CUM	9849600
36	30.3.1	Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden carries or R.C.C. battens (Karnies and battens to be paid separately) including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete. White sand stone slab. 40 to 50 mm thick	2.00	2400.00	0.45		2160.00	274	SQM	591840
37	31.23.2.1	Centring and shuttering upto two stories or height upto 7.5 metre above plinth level including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete.	2.00	2400.00	1.50		7200.00	590	SQM	4248000
38	22.1.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	4.00	2400.00		0.10	960.00	167	SQM	160320
39	22.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	2.00	2400.00	1.50	0.10	720.00	4190	CUM	3016800
40	30.20.3	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) Dark shade using ordinary cement.	2.00	2400.00	1.50		7200.00	660	SQM	4752000
41	12.5.2	Providing and fixing of reinforced Ferro-Cement drain covers designed for 'A' class loading duly marked on cover with adequate steel reinforcement having thickness 75mm to 150mm anti corrosive bitumen painted M.S. plate, Rim and M.S. lifting hooks, Admixtures like plasticizer, bond improving compound, shrinkage, resistance compound, abrasion resistant complete as per approved design etc. Standard Size 1000x800mm for span 451 to 700mm	80.00	4.00	0.80		256.00	993	MTR.	254208
42	29.25.2	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	1s.				2000.00	88.5	P.KG	177000
TOTAL PART D										26327268
PART E	HORTICULTURE									
43	39.3	Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year.	1s.				800.00	1040	EACH	832000

Executive Engineer,

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5. No.	ISOR REF. NO	Particulars	No.	1	8	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
44	39.34	Providing and fixing of RCC pre cast tree guard consisting of four panels of size 1800mm (Height) X 600mm (Width) X 35mm (thickness). Size of opening: 100mm X 100mm. All the panels shall be manufactured with monolithic legs of size 50 x 35 mm; the legs of the panels shall be 0.5 m below ground level. All the four Panels shall have a space for display of Name etc. preferably at middle level. RCC panels to be manufactured with M-30 grade of concrete using vibro-compaction process using jointless FIP moulds so as to achieve shuttering finish. RCC panels are to be suitably reinforced to promote long use and to prevent damage during handling. Transportation & erection as per drawing & specifications	15.				800.00	1790	EACH	1432000
TOTAL PART E										
2264000										
PART F										
STREET LIGHT WORK										
45	59.21.3	Supply and erection of Octagonal pole of following length and dimension as per table E-20 with base plate on the cement concrete foundation of M-15 grade (1:1.5:3) with the help of anchor bolts of grade 6.8 (IS 1367 P III). The pole shall be made of S-355JO grade steel sheet, folded lengthwise to obtained Octagonal shape, having single longitudinal seam weld and hot dipped galvanised internally & externally in accordance with IS 2629. The pole shall have a weatherproof flush door and locking arrangements. The complete work shall be supervised and certified by the manufacturers for satisfactory supply, erection, testing and commissioning (SEE TABLE)	195.00				195.00	17600	EACH	3432000
46	59.22.1	Supply, Erection and Fixing of hot dipped galvanised Overhang (60 X 3.25 mm) with cap (250 x 137.9 x 4.05 mm) over the existing poles. Single arm overhang.	195.00				195.00	935	EACH	182325
47	53.34.1.2	P/F IP-65/ IP-66 protected street light luminaries on existing bracket. Fixture made from powder coated single piece pressure die cast aluminum housing with heat dissipation fins on housing with high power LEDs of CREE/ NICHIA/ OSRAM/ PHILIPS make. Diffuser /glass cover for ensuring IP-65 protection for lamp and control gear compartment, system lumen output of 1500—8500 high power LED. Integrated driver shall be high efficiency having more than 85 % and in compliance to IEC standards. System life of 25000 burning hours with 70 % of initial lumens maintained. Fixture shall be in CE compliance IP-65 protected LED street light luminaries 1111 Street light fixture 3000 watt	195.00				195.00	16000	EACH	3120000

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1	2	3	4	5	6	7	8	9	10	11
48		Providing and Laying Reinforced cement concrete pipe NP4/ prestressed concrete pipe for culverts including jointing ends and fixing collar with cement mortar 1:2 complete as per clause 1000 & 2900 of M&T&H specification including all material, labour form work, machinery.								
A	11.2.1	150 mm internal diameter	2.00	2400.00			4800.00	358	MTR.	1718400
B	11.2.4	300 mm internal diameter	2.00	2400.00			4800.00	957	MTR.	4593600
49		P/Laying XLPE insulated / P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor Armoured of IS:7098 I/1554-1 approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, lind class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size.								
A	51.1.4.2	10.0 Sq.mm 3 core	2.00	3000.00			6000.00	148	MTR.	888000
B	51.1.6.3	25.0 Sq.mm 3.5 core	2.00	1000.00			2000.00	209	MTR.	418000
50		Providing and laying XLPE/PVC insulated & PVC sheathed Un-armoured control cables of 1.1 KV grade with copper conductor as per IS 1255 including excavation of 30 CmX75 Cm size trench 25 Cm thick under layer of sand and lind class bricks covering.								
A	51.9.1	2C x 2.5 sq.mm	195.00	11.00			2145.00	103	MTR.	220935
51	51.3	Deduct if cable laid in existing RCC/Hume/Stoneware pipe.								
52			2.00	3000.00			6000.00	37	MTR.	-222000
			2.00	1000.00			2000.00	37	MTR.	-74000
53		Supplying and making one end termination with heavy duty single compression brass gland SIBG type, aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.								
A	52.1.13	3 x 10.0 sq.mm	4.00	195.00			780.00	59	SET	46020
B	52.1.15	3 x 25.0 sq.mm	4.00	20.00			80.00	72	SET	5760
54	45.6.1	P & F sheet for boxes/ frames including making holes for switches etc., with brass screws, washers/ zinc plated nut and bolts as required. Bakelite sheet 4.8 mm thick	40.00	1.00		0.45	18.00	782	SQM	14076
55		P & F in position frame made out of M.S. angle (riveted or welded) finished with two coats of red oxide and enamel paint of following sizes as required.								
A	45.2.3	35mm x 35mm x 5mm	10.00	10.00			100.00	172	MTR.	17200
B	45.2.5	50mm x 50mm x 6mm	4.00	10.00			40.00	299		11960
56		P & F using M.S. sheet on existing angle iron frame by means of nuts and bolts and making required no. of holes for fixing accessories including two coat of red oxide paint and two coats of enamel paint etc. as required.								
A	45.3.2	2.0 mm thick	14.00	3.00		1.00	42.00	983	SQM	41538

5. No.	ISOR REF. NO	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
57		P&F 240/415 V MCB of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996) conforming to IEC 60898 in existing board/sheets including making connections with lugs, testing etc. as required								
A	46.1.1.2	Single pole MCB 6 A to 32 A rating	1.00	200.00			200.00	233	EACH	46600
58	48.1	SITC of wall/ free standing floor mounted dust and vermin proof compartmentalised cubical panel made out of CRCA sheet, required hardware, duly painted by two coats of zinc/red oxide primer followed by Powder coated / epoxy / PU painted with phosphatisation in grey or required shade after rinsing. The panel having PU/Neoprene rubber gasket of not less than 3mm thickness, separate detachable, gland plate M.S. base channel, hinged door with locking arrangement for equipment/switchgear. Thickness of sheet shall not be less than 1.6mm up to 600mm length/width of any compartment and be of 2.0mm above 600mm. Load bearing structure shall be of 2.0mm thick sheet supported by base M.S. channel if required. Side walls and cable alley compartments having bolted type doors with detachable extension type structure (only outer area on all sides shall be measured and panel to be fabricated from CRCA sheet and fabricated	4.00	3.00		1.00	12.00	2560	SQM	30720
59	48.2.2	Supplying and fixing of Aluminium / Copper bus bar by means of SMC / DMC type insulator, high tensile nuts and bolts spring washers in existing panel including bending, cutting in required shape and size and colour coding with heat shrinkable PVC sleeves Electrolytic SF of 240/220 V, LED (22.5 mm dia) Pilot lamp with integral circuit, terminal block, including connection etc. as required.	L.S.				20.00	565	KG	11300
60	48.8.1	Grade copper bus bar	L.S.				10.00	150	EACH	1500
61	48.15.1.6	P & F of ac operated heavy duty 230 /440 Volt power contactor conforming to IS-13947-4-1/IEC-947-4-1 having provision of mechanical interlocking, Din rail mounting type including making connections, testing etc. as required 3 pole ACB Rating contactors, 41 to 50 Amp	L.S.				5.00	3200	EACH	16000
62	48.20.3	P&F of mechanical / digital time switch having following day / week programme and minimum 100 hours reserve and AC1 rating of 16-20 amperes including making connection, programming etc. as required One day & week reserve (digital type)	L.S.				5.00	5750	EACH	28750
63		P&F TP&N 415 V AC-23A front handle operated switch disconnect fuse unit, cubical type, without metallic enclosure, conforming to IS-13947 P-III in existing panel (W/O HBC fuses) including making connections with lugs, testing etc. as required								
A	50.4.1	32 A rating	L.S.				50.00	1320	EACH	66000
B	50.4.2	63 A rating	L.S.				10.00	1820	EACH	18200

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S. No.	ISOR REF. NO.	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
64	55.1	Pipe Earthing as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. 'B' class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/ charcoal, testing of earth resistance as required. S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required. 25mm x 3mm copper strip	Ls.				5.00	1650	EACH	8250
65	55.4.8		Ls.				50.00	444	MTR.	22200
	67.1.5	Transformer 67.1 Supply, receiving, storing, inspection, handling, assembling, installing in correct aligned position, effecting proper connections, testing and commissioning of following rating out door type oil filled off circuit tap changer transformer with the following specification and conforming to IS 2026 (Part 1-5) with No load and full load losses, % impedance as per CBIP Pub No. 295 - Manual on Transformer and as per Discoms CTL (CTL test Certificate to be attached) Magnetizing Current as percentage of full load current (as per Discom Specifications) Thickness of transformer Tank (rolling tolerance as per IS) Top and Bottom - 5.00mm Sides - 4.00 mm No Load Voltage ratio : 11/0.433 KV No. of phases / frequency : 3 Phases/ 50 Hz Type : Core type, double copper wound Cooling : ONAN Vector Group : DYN11 Temperature rise (OIL/WINDING) : 40/50 deg C Off circuit Taps on HV side in the steps of 2.5%, +5 % to -10% Termination (HV) : Air filled cable end box suitable for 11 KV of adequate cable size Termination (LV) : Air filled cable end box suitable for 1.1 KV of adequate cable size The transformer shall be supplied with following fittings:					1.00	581000	EACH	581000

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S. No.	ISOR REF. NO	Particulars	No.	L	B	H	Qty.	Rate	Unit	Amount
1	2	3	4	5	6	7	8	9	10	11
		(i) Isomorph relay (ii) Conservator with drain valve (iii) Magnetic Level Indicator (iv) Silica gel breather with oil seal (v) First filling of filtered oil as per IS : 335 including make up fill during installation of transformer plus 10% extra oil (vi) off circuit switch (vii) Lifting lugs (viii) Earthing terminal - 2 nos. (ix) Thermometer pocket (x) Air release plug (xi) Inspection cover (xii) Top filter valve - 1no. (xiii) Radiator with top & bottom shut off valves (xiv) 100 mm dial magnetic oil level gauge with max. pointer & with alarm contacts (xv) Rating & Diagram plate (xvi) Bi-directional Plug/ Flanged Rollers (xvii) 150 mm dial Winding temperature indicator with max pointer and alarm & trip contacts (xviii) 150 mm dial Oil temperature indicator with max pointer and alarm & trip contacts (xix) Disconnecting facility of HV Cable box Transformers described as above and as per the following continuous rating 440 KVA								
TOTAL PART F										15244334
GRAND TOTAL PART A+B+C+D+E+ F										78206571.5
SAY RS.										782.06 LAKHS


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